BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS

In the Matter of the Application of Evergy Kansas Metro, Inc., Evergy Kansas South, Inc. and Evergy Kansas Central, Inc. for Approval of its Demand-Side Management Portfolio Pursuant to the Kansas Energy Efficiency Investment Act ("KEEIA"), K.S.A. 66-1283.	))))))	Docket No. 22-EKME 254 -TAR

APPLICATION OF EVERGY KANSAS METRO, INC., EVERGY KANSAS SOUTH, INC. AND EVERGY KANSAS CENTRAL, INC. FOR APPROVAL OF DEMAND-SIDE MANAGEMENT PROGRAM PORTFOLIO AND RECOVERY MECHANISM

COME NOW Evergy Kansas Metro, Inc. ("Evergy Kansas Metro") and Evergy Kansas Central, Inc. and Evergy Kansas South, Inc. (referred to together as "Evergy Kansas Central") (collectively referred to herein as "Evergy" or the "Company") and pursuant to K.S.A. 66-117 and 66-1283, hereby request from the State Corporation Commission of the State of Kansas ("Commission" or "KCC") approval of Evergy's KEEIA 2023-2026 Demand-Side Management ("DSM") Portfolio and updated Energy Efficiency Rider ("EER") filed in accordance with the Kansas Energy Efficiency Investment Act ("KEEIA"). In furtherance of this Application, Evergy states as follows:

I. GENERAL INFORMATION

1. Evergy Kansas Metro and Evergy Kansas Central are vertically integrated electric public utility companies under the jurisdiction of the Commission that are engaged in the production, transmission, delivery and furnishing of power within the meaning of K.S.A. 66-104, in legally designated areas of Kansas. Evergy Kansas Metro and Evergy Kansas Central hold certificates of convenience and authority issued by the Commission, authorizing them to engage in such utility business. Evergy Kansas Metro and Evergy Kansas Central have previously filed with the Commission certified copies of their Articles of Incorporation under which they were

organized, their Certificate of Registration as a Foreign Corporation authorized to do business in Kansas, and all amendments thereto and restatements thereof, and the same are incorporated herein by reference.

2. In addition to serving counsel named below, all correspondence, pleadings, notices, orders and other communications regarding this proceeding should also be sent to the following individuals for Evergy:

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II. BACKGROUND

3. Evergy presently offers a portfolio of DSM programs approved by the Commission in Docket No. 20-KCPE-154-MIS, *In the Matter of the Application of Evergy Metro, Inc. for Approval to Extend its Demand-Side Management Programs* and Docket No. 15-WSEE-532 MIS, *In the Matter of Application of Westar Energy, Inc. and Kansas Gas and Electric Company for Approval of Interim Budgets for Energy Efficiency Programs.*[1]

4. During the 2014 Kansas Legislative Session, KEEIA became law with the passage of House Bill 2482, now K.S.A. 66-1283. Under KEEIA, DSM investments are to be valued equal to traditional investments in supply and delivery infrastructure as much as is practicable, and recovery of all reasonable and prudent costs associated with implementing such DSM programs is to be approved so long as the program (1) results in energy or demand savings and (2) is beneficial to customers in the customer class for which the programs were implemented, whether or not the program is utilized by all customers in the class. In addition, KEEIA allows the utility company to request a cost recovery mechanism to further encourage investments in DSM programs and which may include, among other things, capitalization of investments in and expenditures for demand-side programs, recovery of lost revenue associated with demand-side programs; and allowing the public utility to retain a portion of the net benefits of a demand-side program for its shareholders. KEEIA also provides for timely cost recovery, financial incentives aligned with helping a utility's customers use energy more efficiently and in a manner that sustains or enhances such customers' incentives to use energy more efficiently, and timely earnings opportunities associated with cost-effective, measurable and verifiable demand-side program savings.

[1] KCP&L and Westar were merged in 2018. The former KCP&L territory is now Evergy Kansas Metro and the former Westar territory is now Evergy Kansas Central.

5. Evergy presents its DSM program portfolio and related recovery mechanism in support of Kansas' goal and policy as stated in the KEEIA.

III. APPLICATION

6. Every is proposing a portfolio of DSM programs that would be in effect from 2023 through 2026. This portfolio will build on Evergy's existing DSM portfolio in Kansas, using knowledge and experience gained in both its Kansas and Missouri service territories over the past 15 years. The programs proposed in the Application will broaden the Company's current DSM offerings in Kansas, focusing on improving customer participation and enhancing customer experience. Evergy's proposed DSM program portfolio and cost recovery mechanism are described more fully in the Report attached to this Application entitled *Evergy KEEIA 2023-2026 Demand Side Management Portfolio Filing* ("Report").

7. As regards existing DSM programs, with the exception of Evergy Kansas Central's EEDR tariff, the Company's current DSM program budgets either have an expiration date at the end of 2022 or are proposed to be incorporated into the KEEIA program portfolio. If the portfolio is approved, the net result will be that all associated recovery with these proposed programs (including the existing EEDR tariff) will happen through the EER in both jurisdictions.

8. The Report is supported by affidavits from Company witnesses who are experts in the areas for which they provide support and responsibility. The Report includes the proposed tariffs for the programs and the proposed cost recovery/earnings opportunity mechanism. In addition, the Application is supported by the prefiled Direct Testimony of Charles A. Caisley.

9. The Commission's November 14, 2008 *Final Order* in Docket No. 08-GIMX-441-GIV ("08-441 Order")[2] sets out guidelines for the content to be included in future DSM applications. To the extent a variance from any of these guidelines is deemed necessary to approve Evergy's Application in this case (such as to allow for the 3-Year budget proposed for this portfolio instead of the 5-Year budget contained in the guidelines), Evergy hereby requests such variance.

IV. PROCEDURAL MATTERS

10. KEEIA imposes a 180-day timeline on submittals of DSM program plans and cost-recovery mechanisms under the statute. This time period can be extended by the Commission to 240 days for good cause. Evergy seeks to implement its DSM portfolio January 1, 2023, to be effective through December 31, 2026. In order to facilitate the effective date of January 2023, and allow for adequate review of the proposed portfolio, Evergy hereby voluntarily accepts a 240-day schedule and deadline for this Application. Evergy is working with Commission Staff ("Staff") and the Citizens Utility Ratepayer's Board ("CURB") to propose a procedural schedule which the Company anticipates will be filed within a few days after this Application.

11. Over the six months preceding the filing of this Application, Evergy has been conducting stakeholder workshops with organizations and institutions interested in DSM programming at which information and explanation has been provided by the Company, input has been received from stakeholders, and ideas have been shared and discussed. The participants in these workshops are listed in the Report, Table 3 and Table 4.

[2] *In the Matter of a General Investigation Regarding Cost Recovery and Incentives For Energy Efficiency Programs,* Ordering Paragraph E, Appendix A.

To improve the overall understanding of this filing in an efficient manner, Evergy will continue this educational, interactive process by conducting weekly technical conferences between Evergy, Staff, CURB and other parties during the first few months of this docket.

12. The initial work papers being provided to Staff and CURB concurrent with the filing of this Application contain some data that is considered "Confidential" by Evergy, and it has been marked as such in accordance with K.S.A. 66-1220a and K.A.R. 82-1-221a. In addition to information in the initial workpapers, Evergy anticipates discovery may be conducted that would involve the production of additional information deemed confidential. To accommodate the foregoing schedule, Evergy requests that the Commission issue a Discovery Order and a Protective Order as soon as possible.

WHEREFORE, Evergy respectfully requests the Commission issue an Order approving Evergy's Application as filed, including the proposed programs, cost recovery mechanism, related tariff sheets, the Technical Resource Manual and the EM&V Plan as contained therein, and for such further relief as the Commission deems appropriate.

Respectfully submitted,

Cathryn J. Dinges, (#20848)
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ATTORNEYS FOR EVERGY

VERIFICATION

STATE OF KANSAS)
) ss
COUNTY OF SHAWNEE)

The undersigned, Cathryn Dinges, upon oath first duly sworn, states that she is Sr Director and Regulatory Affairs Counsel for Evergy Kansas Central, Inc. and Evergy Kansas South, Inc., that she has reviewed the foregoing pleading, that she is familiar with the contents thereof, and that the statements contained therein are true and correct to the best of her knowledge and belief.

Cathryn Dinges

Cathryn Dinges

Subscribed and sworn to before me this 17th day of December 2021.

Leslie R. Wines

Notary Public

My appointment expires:
May 30, 2022

NOTARY PUBLIC - State of Kansas
LESLIE R. WINES
My Appt. Exp. 5/30/22

BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS

DIRECT TESTIMONY OF
CHARLES A. CAISLEY

ON BEHALF OF
EVERGY METRO, INC., EVERGY KANSAS CENTRAL, INC.
AND EVERGY KANSAS SOUTH, INC.

IN THE MATTER OF THE APPLICATION OF EVERGY METRO, INC., EVERGY KANSAS CENTRAL, INC., AND EVERGY KANSAS SOUTH, INC. FOR APPROVAL OF TRANPORTATION ELECTRIFICATION PORTFOLIO.

DOCKET NO. 22-_____-_____-TAR

I. INTRODUCTION

Q: Please state your name and business address.

A: My name is Charles A. Caisley. My business address is 1200 Main Street, Kansas City, MO 64105.

Q: On whose behalf are you testifying?

A: I am testifying on behalf of Evergy Metro, Inc., Evergy Kansas Central, Inc., and Evergy Kansas South, Inc. ("Evergy") in this proceeding.

Q: By whom and in what capacity are you employed?

A: I am employed by Evergy Metro, Inc. I serve as Senior Vice President Marketing and Public Affairs and Regulatory, as well as Chief Customer Officer for Evergy, Inc., Evergy Metro, Inc. d/b/a Evergy Missouri Metro ("Evergy Missouri Metro") and Evergy Kansas

Metro ("Evergy Kansas Metro"); Evergy Missouri West, Inc. d/b/a Evergy Missouri West ("Evergy Missouri West"); and Evergy Kansas Central, Inc. d/b/a/ Evergy Kansas Central ("Evergy Kansas Central").

Q: On whose behalf are you testifying?

A: I am testifying on behalf of Evergy.

Q: What are your responsibilities?

I am the executive responsible for leading the Customer and Community Solutions Division at Evergy. That division is focused on everything that directly interacts with and serves customers and communities within Evergy's service territories. Within that division, I am responsible for small-scale distributed and renewable generation projects, energy products and services platforms, energy efficiency and demand response portfolio, community and customer strategy and communications, marketing, economic development, governmental affairs and public relations functions. Many of these areas are responsible for direct interaction with Evergy customers and stakeholders, which includes online/electronic transactions and portals, social media, community affairs, business customers, customer complaints, city franchises and regulated and non-regulated products and services. In addition, the Company's customer service operations, including our call centers as well as our billing and metering operations, are also part of the Customer and Community Solutions Division. I am also responsible for leading a cross-functional team of individuals with responsibility for our overall customer experience and strategy. This includes customer research and segmentation as well as customer data analytics. I am also responsible for Regulatory.

Q: Please describe your education, experience and employment history.

A: I graduated from the University of Illinois in Urbana-Champaign with a bachelor's degree in political science. I earned a Juris Doctorate degree from St. Louis University School of Law and a Master of Business Administration from Washington University in St. Louis. I joined KCP&L (now Evergy Metro) in 2007 as Director of Government Affairs. Prior to joining Evergy, I was employed by the Missouri Energy Development Association ("MEDA"), the Missouri Industry Association for Missouri investor-owned utilities, as President. Prior to that I was employed as the Chief of Staff to the Speaker of the Missouri House. In both positions, I dealt extensively with Missouri utility law and energy policy.

Q: Have you previously testified in a proceeding at the State Corporation Commission for the State of Kansas ("Commission" or "KCC") or before any other utility regulatory agency?

A: Yes, I have testified before both the KCC and the Missouri Public Service Commission ("PSC").

Q: What is the purpose of your testimony?

A: The purpose of my testimony is to sponsor the *Evergy KEEIA 2023- 2026 Demand-Side Management Portfolio Filing* ("Report") that is being filed concurrently with my testimony and the Company's Application in this docket and to introduce Evergy's witnesses who support the Report and Application.

Q: Why is Evergy filing this Application at this time?

A: Evergy's last filings under the Kansas Energy Efficiency and Investment Act ("KEEIA") resulted in Orders from the Commission in June of 2017 and June 2019.[1] Since that time, Evergy has gained valuable information from the implementation and operation of its DSM programs in Kansas and Missouri. In addition, there has been advancements in DSM technology, an increase in customer demands, and changes in policy perspectives over the past few years. Evergy believes, and many stakeholders agree, that now is the appropriate time to advance with DSM in Kansas. It is a key component of Evergy's strategy and business plan and is included within Evergy's Integrated Resource Plan (IRP).[2] It is a flexible resource that drives customer costs down. Evergy is in the right position to build on its already established customer relationships in order to drive additional valuable interactions.

Q: How does Evergy's DSM proposal benefit customers?

A: Through managed DSM programs, customers can benefit from the program investment by unlocking enhanced customer experience, additional short-term and long-term cost savings, and more efficient grid operations. Customers benefit not only through receiving incentives, such as rebates for purchasing efficient equipment, but also through education that can lead to behavioral change of how customers view and manage their energy consumption. Of significant value as well, the proposed DSM programs are designed to reduce the energy burden for hard-to-reach customers, specifically with low or no cost

[1] Docket No. 16-KCPE-446-TAR, *In the Matter of the Application of Kansas City Power & Light Company for Approval of its Demand-Side Management Portfolio Pursuant to the Kansas Energy Efficiency Investment Act ("KEEIA"), K.S.A. 66-1283* ("16-446 Docket"), and Docket No. 15-WSEE-181-TAR, *In the Matter of Application of Westar Energy, Inc. and Kansas Gas and Electric Company for Approval of Energy Efficiency Programs*, respectively. As stated above, KCP&L and Westar were merged to become Evergy in 2018.

[2] *Evergy Kansas Central and Evergy Metro 2021 Integrated Resource Plan* filed on May 28, 2021, and revised on June 3, 2021, in Docket No. 19-KCPE-096-CPL.

options for efficient upgrades. Evergy can also ensure benefits for the community by partnering with other state and community agencies to deliver societal and health-related benefits from the delivery of the programs.

Q: Please briefly describe the outline of what is covered in the Report.

A: The Report is structured in the following manner:

Section 1 is an Executive Summary of the Report that provides a high-level overview of the Application and its benefits to Kansas customers, the background of KEEIA and how it aligns with Evergy's strategy, the development and design of the proposed programs, the proposed investment and its customer bill impacts, the stakeholder engagement process Evergy employed in developing the portfolio, financial recovery methods and Evergy's anticipated timeline for the programs.

Section 2 describes in more detail the process, input and information Evergy obtained through the stakeholder engagement workshops and meetings.

Section 3 provides detail on the measure analysis, program analysis and portfolio design process.

Section 4 addresses programs proposed for residential customers, including Whole Home Efficiency Program, Home Energy Education Program, Home Demand Response Program and Hard-to-Reach (HTR) Homes Program.

Section 5 addresses programs proposed for business customers, including Whole Business Efficiency Program, Business Energy Education Program, Business Demand Response (BDR) Program and Hard-to Reach Business Program.

Section 6 describes Evergy's proposed Pilots Incubator Program.

Section 7 presents the program evaluation, measurement and verification (EM&V) plan for the Portfolio.

Section 8 addresses Evergy's proposed financial recovery approach.

Section 9 describes in detail Evergy's implementation plan including startup and procurement, implementor selection and management, marketing, trade ally efforts, progress tracking and reporting, and stakeholder feedback.

Appendix A contains a detailed description of the proposed residential and business programs.

Appendix B contains the program tariff sheets.

Appendix C is the Technical Resource Manual.

Appendix D is an example of how the EM&V plan will work with associated template.

Appendix E has the financial recovery model and earnings opportunity matrix.

Appendix F is the EER tariff sheets.

Appendix G contains Evergy's customer research report.

Appendix H is the list of Company witnesses supporting the Report and Application.

Q: How is the Report supported by Company witnesses?

A: The Company witnesses who support the Report and the sections of the Report for which they are responsible are as follows:

Section	Evergy Employee Sponsor
Section 1 Exec Summary	Kim Winslow
Section 2 Customer Insights	Kim Winslow
Section 3 Program Design	Section 3 – Tim Nelson Section 3.1.1 Avoided Cost – Kayla Messamore SPP fees – John Carlson Section 3.1.2 Portfolio Development – Tim Nelson
Section 4 – Res Portfolio	Brian File
Section 5 – Business Portfolio	Brian File
Section 6 -Incubator	Natalie Gray
Section 7- Program EM&V	Tim Nelson
Section 8 – Financial Recovery	Mark Foltz
Section 9 – Implementation	Natalie Gray
Appendix A – Detailed Program Descriptions	Brian File
Appendix B – Program Tariffs	Brian File
Appendix C – Technical Resource Manual	Tim Nelson
Appendix D – EM&V template	Tim Nelson
Appendix E – Financial Recovery / EO matrix	Mark Foltz Brian File – EO Matrix
Appendix F – EER tariff sheets	Mark Foltz
Appendix G – Customer Research	Kim Winslow

Q: Please provide an overview of the program portfolio Evergy is proposing.

A: The KEEIA 2023 – 2026 DSM Portfolio is comprised of nine programs - four residential programs and four business programs, with one pilot incubator program which will span both residential and business customer bases. These programs will deliver an effective and

balanced portfolio of energy and demand savings opportunities across all customer segments. Each program is designed to leverage the optimal mix of best-practice measures and technologies, delivery strategies, and target markets to most cost-effectively deliver programs and measures to Kansas customers.

Q: Please briefly describe the cost recovery mechanism being proposed by Evergy.

A: Evergy is proposing the modification of the existing Energy Efficiency Rider ("EER Rider") structures for both jurisdictions that is consistent with the KEEIA. The update to the EER Rider includes timely recovery of three financial components: program costs, the Throughput Disincentive (TD), and an Earnings Opportunity (EO) award. Evergy is requesting approval of an update of the EER to begin collecting actual program costs and TD, which is directly attributable to the demand-side programs approved in this filing, with carrying costs at the Companies' pre-tax cost of capital over a 12-month period following each program year. The EER Rider will be updated annually following each program year with and will include an additional reconciliation of the prior periods program costs and TD recoveries with carrying costs on any under- or over-recovery. The EO would be recovered over a 12-month period following final determination based on EM&V review in the year following each program period. Should any additional demand-side programs and tariffs be filed under the KEEIA requirements for the program period, those would follow the above structure as well.

Evergy also proposes to include the recovery of unrecovered existing EER costs from periods prior to the effective date of this filing to be recovered in the modified EER.

Q: Please summarize Evergy's request before the Commission related to the Application to approve Evergy's KEEIA filing.

A: Evergy is requesting the Commission approve Evergy's proposed DSM portfolio of programs, the proposed cost recovery/earnings opportunity mechanism, the proposed tariffs implementing the programs and mechanism, the proposed EM&V plan, and any other approvals or terms the Commission deems necessary related to the Application in this docket.

Q: What effective date is Evergy requesting for its DSM proposal?

A: Evergy seeks to implement its DSM portfolio January 1, 2023, to be effective through December 31, 2026. In order to facilitate the effective date of January 2023, Evergy is working with Commission Staff and CURB to develop a procedural schedule and anticipates filing it for Commission consideration within the next few days. This proposed timeline will include an allowance to stretch the approval to 240-days, in line with the extended statutory timeline provided for under the KEEIA statute.

Q: Does this conclude your testimony?

A: Yes, it does.

STATE OF KANSAS)
) ss:
COUNTY OF SHAWNEE)

VERIFICATION

The undersigned, Chuck Caisley, upon oath first duly sworn, states that she is Sr VP Public Affairs Chief Customer Officer for Evergy Kansas Central, Inc. and Evergy Kansas South, Inc., that she has reviewed the foregoing pleading, that she is familiar with the contents thereof, and that the statements contained therein are true and correct to the best of her knowledge and belief.

CA Caisley

Chuck Caisley

Subscribed and sworn to before me this 17th day of December, 2021.

Leslie R. Wines
Notary Public

My Appointment Expires:
May 30, 2022

NOTARY PUBLIC - State of Kansas
LESLIE R. WINES
My Appt. Exp. 5/30/22

KCC Filing
Evergy Kansas Metro & Evergy Kansas Central

KEEIA 2023 – 2026 Demand-Side Management Portfolio Filing

December 17, 2021

Table of Contents

KEEIA | Kansas Energy Efficiency Investment Act

4-Year Program Plan: *Continuing Evergy's commitment to energy efficiency and sustainability*

OVERVIEW

9 core **residential** and **business programs**

$13 million in **income-eligible programs**

$42 million in **residential customer incentives**

$22 million investment in **small businesses and non-profits**

IMPACT

30+ **direct jobs** expected to be created *(and many more indirect)*

Over **$2 in benefits** for each $1 spent

$42 million in anticipated net **bill savings**

39,000 **homes powered with** energy saved annually

45,000+ Equivalent **number of cars** taken off the road annually with reduced emissions

325,693 MWh annual **energy savings**

1. Executive Summary

The benefits of utility demand-side management (DSM) energy efficiency (EE) and demand response (DR) programs have made a significant impact across the nation for decades. American Council for an Energy-Efficient Economy's (ACEEE) State Energy Efficiency Scorecard[1] ranks the state of Kansas EE efforts as 47th out of all 50 states and Washington, DC. This ranking indicates that there is much opportunity to grow in this area to positively impact customers with the combination of understanding the benefits of DSM, choosing to invest in higher energy-efficient equipment and effecting behavioral change to lower their energy bill while also improving their community – from the increase in economic activity to lowering carbon in their communities.

DSM efforts are not new in Kansas. Several Kansas Corporation Commission (KCC) orders beginning in early 2000 began to shape the DSM regulatory landscape in Kansas regarding DSM recovery, programs, budgets, avoided cost and fuel switching. In addition, Evergy has a long history of educating, developing, implementing, and offering DSM to its customers. Prior to the merger with Westar Energy, Inc. (Westar) to form Evergy, Kansas City Power & Light Company (KCP&L) began offering DSM programs in earnest in 2005 in Kansas[2]. At that time, the portfolio of programs established within KCP&L's Comprehensive Energy Plan[3] in Missouri and Kansas represented a significant commitment on the part of Evergy to promote DSM to ensure that all classes of customers had programs in which they could participate. This commitment to DSM by a Kansas or Missouri utility was unprecedented at the time of the 04-1025 S&A and the 0329 S&A. KCP&L remained committed to these programs even after the conclusion of the Comprehensive Energy Plan. Concurrently, Westar, now Evergy Kansas Central, put into place efforts in demand response, financing and energy efficiency education programs during relatively that same time period as KCP&L to deliver customers' desires for DSM.

Following failed DSM filings, both utilities successfully sought legislation under Kansas Energy Efficiency Investment Act (KEEIA)[4], enacted on July 1, 2014. KEEIA states, "It is the goal of the state to promote the implementation of cost-effective demand-side programs in Kansas". Furthermore, the KEEIA requires the KCC to permit electric (and natural gas) public utilities to implement Commission-approved programs and cost recovery mechanisms to reduce the consumption of electricity (or natural gas) by its retail customers, and it provides for utility cost recovery mechanisms, which include, but not limited to, recovery of program costs, lost revenue associated with such programs and utility retention of a portion of the net benefits of such programs[5].

[1] https://www.aceee.org/state-policy/scorecard

[2] DSM programs were agreed upon as a result of the Stipulation and Agreement in Docket No. 04-KCPE-1025-GIE (04-1025 S&A) and in Missouri, Case No. EO-2005-0329 (0329 S&A), both of which established the Comprehensive Energy Plans for the respective states.

[3] The Comprehensive Energy Plan included $53M of DSM program investment, with the Kansas Metro jurisdictional share being approximately $24 million.

[4] Senate House Bill No. 2482

[5] Utility retention of a portion of the net benefits of such programs is also referred to as "earnings opportunity" within this Report.

While the enactment of KEEIA signaled a positive future for Kansans to benefit from energy-efficiency, Westar filed and withdrew a DSM filing[6] developed under KEEIA in 2015 and KCP&L followed in 2016 with a filing[7] that included a broad portfolio of programs under KEEIA. KCP&L, however, opted not to pursue the modified Commission-approved portfolio. A handful of DSM programs in each territory persist from the various filings over the past decade and only program costs are recovered through an EE Rider (EER) specific to each jurisdiction.

Evergy and its Missouri customers have significantly benefited from DSM program offerings for nearly 10 years through the enactment of Missouri Energy Efficiency Act (MEEIA)[8], which is similar to KEEIA. It is with this filing that Evergy is responding to our Kansas customer voices and desire for Evergy to seek approval from the KCC for a portfolio of programs that benefit all customers. In the development of the portfolio, Evergy relied on industry best practices, feedback from a diverse set of Kansas stakeholders, insights from its customers and Evergy's DSM experience in Missouri. Evergy's KEEIA 2023 – 2026 Demand Side Management Portfolio Filing Report (Report) details Evergy's request for approval of a four-year portfolio for DSM programs for its Kansas jurisdictions, Evergy Kansas Metro and Evergy Kansas Central. As demonstrated within this filing, Evergy maintains its commitment to helping customers save energy and money. This proposal includes a diverse and broad set of DSM programs for all customers to participate, but it also includes EE education for its customers, specifically for those hard-to-reach focus[9] areas.

The portfolio includes nine programs that span EE and DR for residential, business and hard-to-reach customers. It also includes a pilots incubator program, which in Missouri was borne a successful low-income program that is revered by Missouri and Kansas stakeholders. This program has been mirrored and proposed in this filing, specifically for Kansas. The proposed portfolio includes EE incentives for the whole and multi-family homes, renters and all business types. It also includes DR programs that are proposed to increase system reliability and to be relied upon year-round, not just during the summer peak months.

The proposed four-year portfolio (2023-2026) includes:

- Average annual budget of $33 million
- Energy savings of over 325 gigawatt-hours (GWh)
- Demand reduction of over 260 megawatts (MW)

Moreover, the proposed portfolio provides for a net present value of customer net bill savings of $42 million over the lives of the installed equipment and measures. The proposed portfolio is cost-effective with each jurisdiction resulting in a total cost resource (TRC) cost-effectiveness test of 2.0 or greater and a rate-payer impact measurement (RIM) cost effectiveness test of greater than 0.7[10].

[6] Docket No. 15-WSEE-181-TAR
[7] Docket No. 16-KCPE-446-TAR
[8] https://www.senate.mo.gov/09info/pdf-bill/tat/sb376.pdf
[9] Hard-to-Reach is referred to in this report as low-income or rural residential customers, and small or rural businesses. Sections 4.5 and 5.4 provide further definition of these customer segments.
[10] Docket No. 16-KCPE-446-TAR, Application of KCP&L for Approval of its Demand-Side Management Portfolio Pursuant to the Kansas Energy Efficiency Investment Act, page 35.

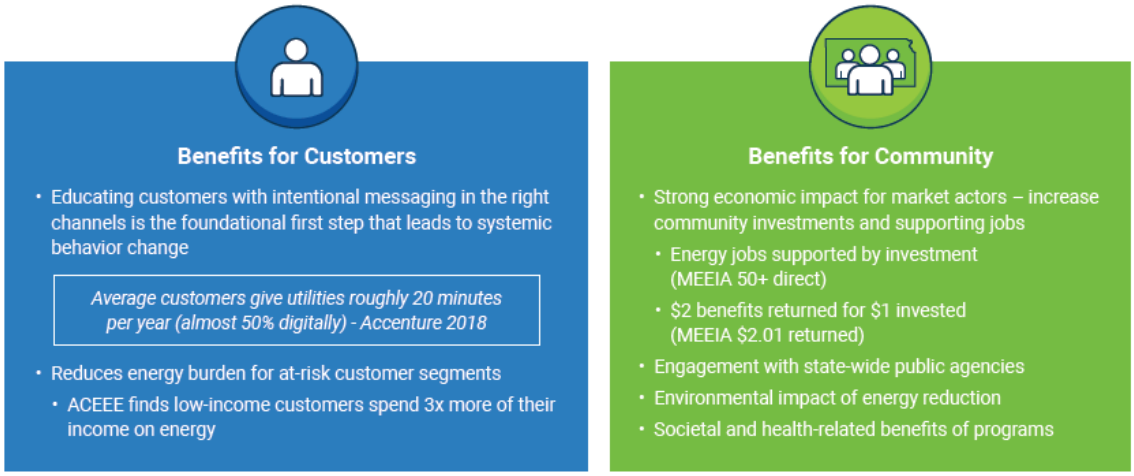
Evergy's proposed portfolio builds on the Company's Sustainability Transformation Plan and its Integrated Resource Plan (IRP)[11] as it is a flexible resource that drives customer costs down. DSM remains the most cost effective and minimal net environmental impact of Evergy's investment options. It reinforces the connection with the Company's IRP and similarities between the jurisdictions, while addressing customer bill and rate impact.

The sub-sections below provide a summary of the benefits of Evergy's proposal, program offers, cost recovery mechanism and customer bill impact. Section 1.6 then addresses the proposed timeline for this filing, in accordance with the KEEIA.

1.1. Benefits to Evergy's Kansas Customers

Evergy has designed its portfolio of programs with a primary goal of providing benefits to Evergy customers and its communities, as outlined in Figure 1.

Figure 1: Benefits of Energy Efficiency



Benefits of energy efficiency expands broader than the benefits contained within Evergy's cost effectiveness evaluation. These benefits include[12]:

- Reduction of emissions to improve health through air quality improvement
- Benefits to society through new business and job creation, avoid costly illnesses and reduction in worker absence
- Boosts economy through lower energy costs, increase in disposable income and new business and job creation
- Reduces demand reduction, which lowers utility operational expense and lowers customer rates/bills

[11] Docket No. 19-KCPE-096-CPL, Annual Update to Evergy's Integrated Resource Plan (updated June 2, 2021)

[12] *Information Source: EPA's Part One – The Multiple Benefits of Energy Efficiency and Renewable Energy Document (1-7)*

- Enhances electric system through reduced cost of service and increases system reliability

1.2. KEEIA Purpose and Alignment with Evergy's Strategy

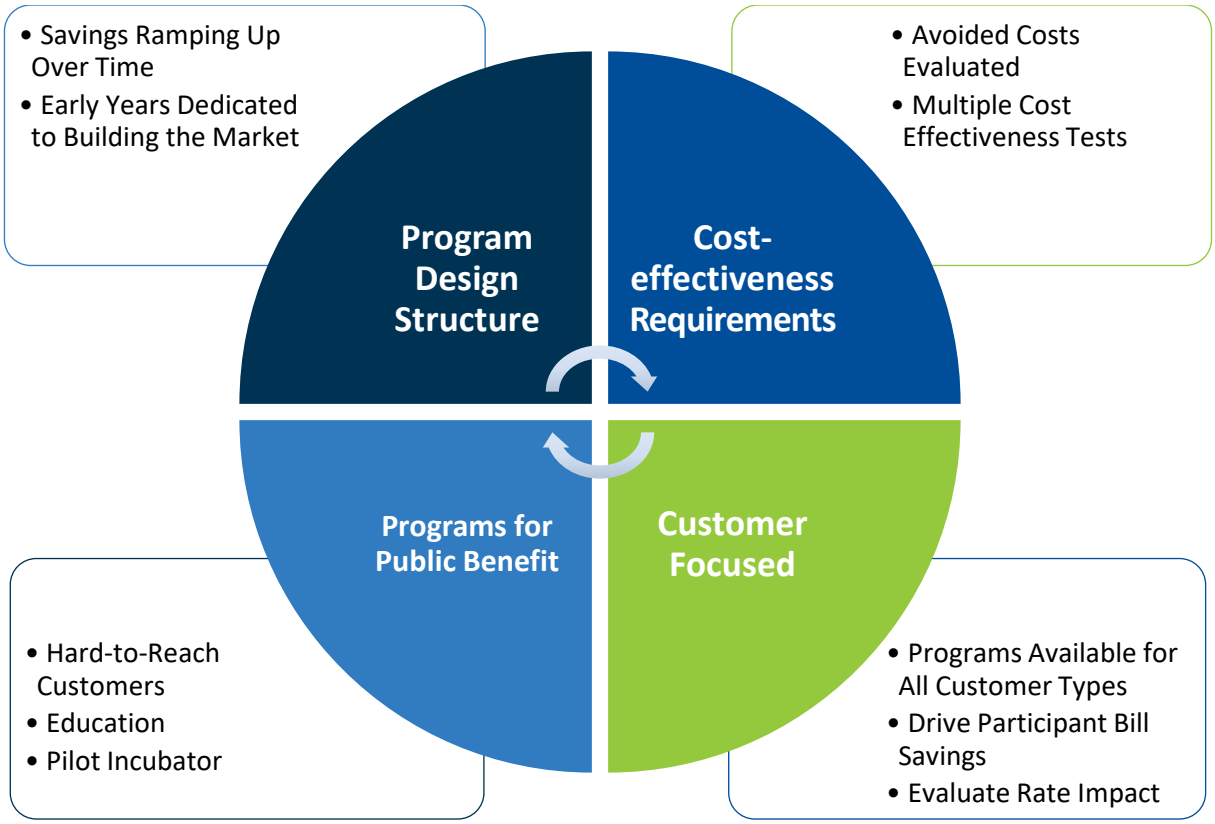
The KEEIA was established to support the state goal of promoting the implementation of cost-effective demand-side programs in Kansas and the state policy to value demand-side program investments equal to traditional investments in supply and delivery infrastructure.

Evergy's strategy to provide and increase customer value in all facets ties directly to this proposed portfolio as provided for under the KEEIA statute. DSM is a least-cost resource, and it provides additional diversity in Evergy's generation resource portfolio to meet customers' energy needs now and in the future. Evergy's preferred plan in its 2021 IRP includes DSM as a component where costs are reduced to customers over the 20-year horizon. Additionally, investing in DSM aligns with Evergy's strategy and its business plan's key objectives, such as increasing communication channels, improving grid resiliency and delivering reduction in carbon emissions.

1.3. Portfolio Development and Program Design

Evergy designed its portfolio to leverage the energy-efficient measures and technologies, best-practice delivery strategies and target markets to cost-effectively deliver programs and measures. In the development of its portfolio, Evergy relied upon the four parameters shown in Figure 2 to design its programs.

Figure 2: KEEIA Program Design Parameters



Program Design Structure

When designing a DSM program, it is important to recognize the need to build the market. This involves engaging with contractors and trade allies, working with key stakeholders and educating customers about the program and how to participate. A robust program structure, designed through gaining feedback from customers, stakeholders and trade allies will help to ramp-up participation and program savings by offering programs that are of interest, necessary and cost-effective.

Cost-Effectiveness Requirements

Evergy has evaluated programs for cost-effectiveness in a holistic manner. Programs are evaluated using the following industry standard tests: Total Resource Cost (TRC), Societal Cost Test (SCT), Utility Cost Test (UCT), Participant Cost Test (PCT) and Rate Impact Measure (RIM). This multi-faceted analysis aligns with previous Commission-stated objectives on cost-effectiveness tests[13].

Customer-Focused Programs

DSM programs should be designed with a strong customer focus to garner significant participation and deliver on the objective of energy and demand reduction. Evergy's proposed

[13] Docket No. 08-GIMX-442-GIV, *General Investigation Regarding Benefit-Cost Analysis and Program Evaluation for Energy Efficiency Programs*

portfolio covers all types of customers and are designed to drive more comprehensive upgrade projects for the participants, which means greater bill savings and comfort. DSM programs can drive a higher level of customer engagement; therefore, programs should be presented to the customer in simple ways and aligned with customer needs, as well as integrated with where and how customers want to interact with Evergy. The KEEIA portfolio offers customers many points of participation entry.

Figure 3 presents a high-level summary of Evergy's 2023–2026 DSM portfolio, which are based on the four design parameters shown in Figure 2.

Figure 3: KEEIA 2023–2026 DSM portfolio

1.4. Portfolio Investment and Bill Impacts

Using the four design parameters described in Section 1.3 and data modeling, Evergy created a portfolio of programs designed to meet the needs of residential and business customers in its Kansas Metro and Kansas Central jurisdictions. This portfolio of programs will be an investment by all customers but also for **the benefit of all customers**. With this in mind, Evergy understands the importance of this DSM investment and Evergy's stewardship that includes transparency of expected costs to achieve the energy and demand reductions. Evergy is committed to managing this portfolio with minimal bill impact and maximum positive environmental impact for customers and communities Evergy serves.

Evergy's KEEIA 2023-2026 DSM portfolio budget by cost category is shown in Figure 4. These budgets include incentives, administration, evaluation and education and marketing. Program budgets for Kansas Central and Kansas Metro jurisdictions are provided in Table 1 and Table 2, respectively.

Figure 4: 2023 – 2026 Forecasted Cost by Category (Central and Metro combined)

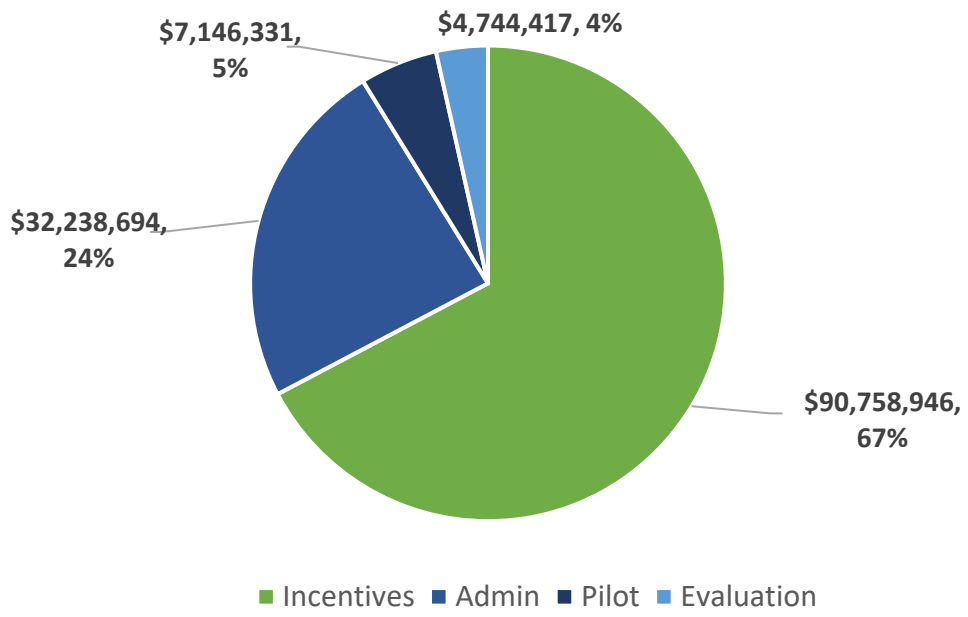


Table 1: Kansas Central - Program Budget

Cost Category	Residential Programs	Business Programs	Total Portfolio
Incentives	$31,401,535	$36,230,189	$67,631,724
Delivery	$4,842,432	$16,662,780	$21,505,212
Administration	$629,527	$2,157,368	$2,786,895
Evaluation, Measurement and Verification (EM&V)	$823,452	$2,752,728	$3,576,180
Pilot	n/a	n/a	$5,451,966
Total	$37,696,946	$57,803,064	$100,951,977

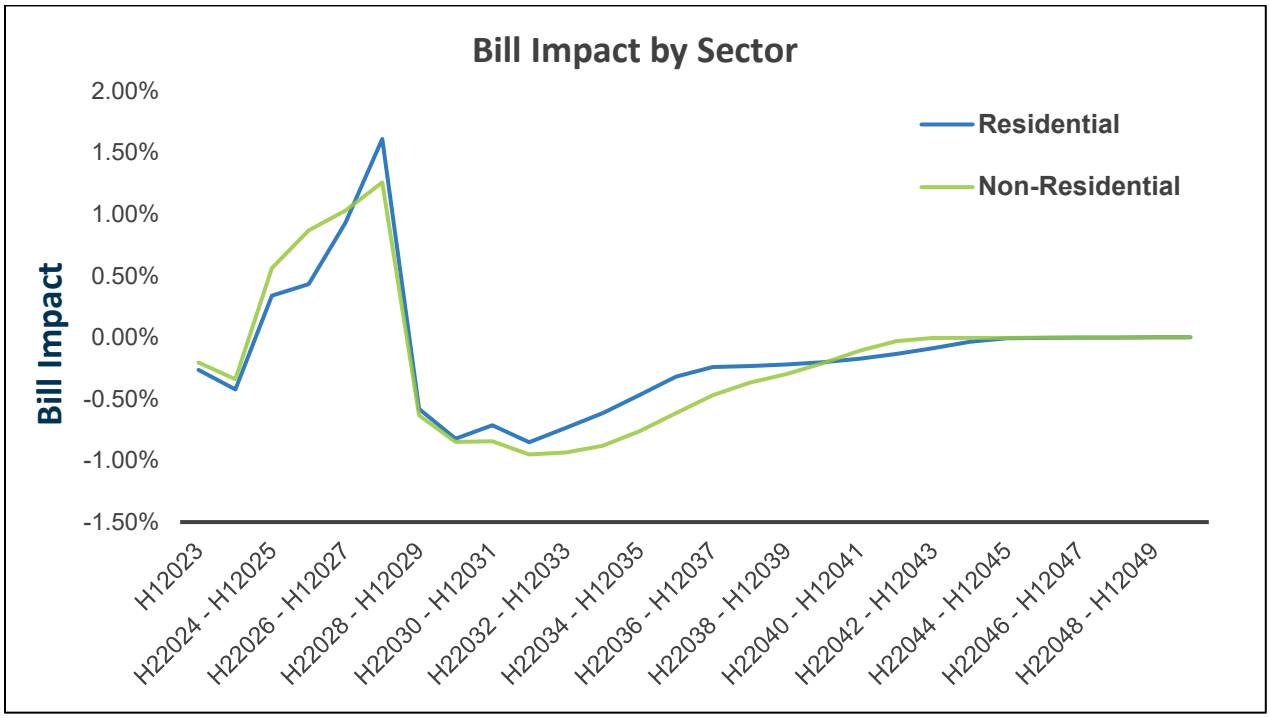
Table 2: Kansas Metro - Program Budget

Cost Category	Residential Programs	Business Programs	Total Portfolio
Incentives	$11,919,873	$11,207,349	$23,127,222
Delivery	$1,858,658	$5,176,426	$7,035,084
Administration	$241,758	$669,745	$911,504
Evaluation, Measurement and Verification (EM&V)	$317,212	$851,025	$1,168,237
Pilot	n/a	n/a	$1,694,365
Total	$14,337,501	$17,904,545	$33,936,411

Bill Impacts

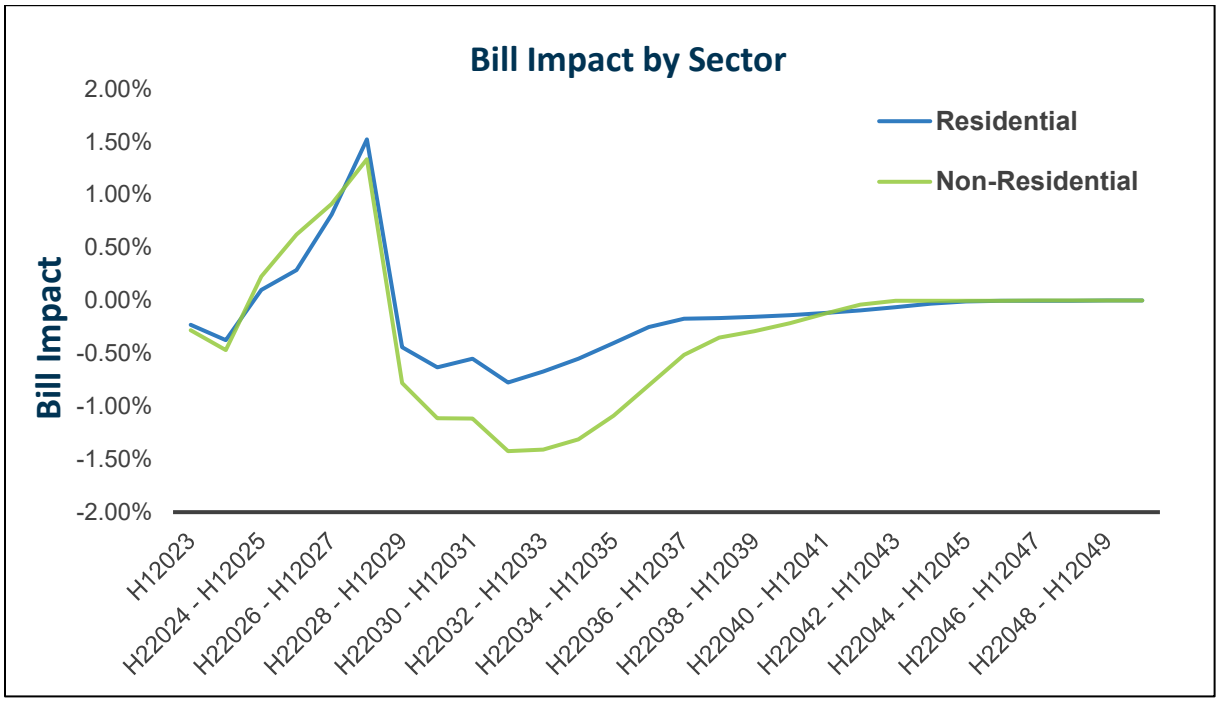
Financial recovery of the DSM investment is proposed to occur through an update to the Energy Efficiency Rider (EER or Rider). The Rider will provide for the recovery of program costs, lost margin and earnings opportunity (EO) of the proposed programs. Figure 5 and Figure 6 shows the impacts of the proposed DSM portfolio investment on residential and business customer bills over the life of the investment as compared to no DSM portfolio investment for Kansas Central and Kansas Metro jurisdictions.

Figure 5: Kansas Central - Customer Bill Impact by Sector[14]



[14] The "H" shown in the X-Axis refers to "half" since the EER updates are proposed in July.

Figure 6 – Kansas Metro – Customer Bill Impact by Sector[15]



Evergy designed its DSM programs with the goal of mitigating customer bill impact, as further supported by the Commission in Case No.12-GIMX-337-GIV[16] For Kansas Central customers, the net bill effect of the proposed DSM portfolio investment is a reduction of $28 million NPV[17] over the life of the investment. Similarly, for Kansas Metro customers, the net bill effect of the proposed DSM portfolio investment is a reduction of $14 million NPV over the life of the investment.

The trend in Figure 5 and Figure 6 is influenced by the interaction between lifetime energy (kWh) savings of the efficient equipment, retail electric rates and estimated rider recovery applicable in each year. Overall, the impact to customer bills can be viewed in three periods. First, in the pre-cost recovery period (January 1, 2023 through mid-2024), the customer energy savings lend to a negative bill impact. Second, during the cost recovery period (mid-2024 to mid-2028), bills are positively impacted, on average. Third, once the post-cost recovery period begins in 2028, customers reap the continued energy savings for the investment and realize reduced bills for many years.

[15] Ibid.
[16] Docket No 12-GIMX-337-GIV, *In the Matter of the General Investigation of Energy-Efficiency Policies for Utility Sponsored Energy-Efficiency Programs.*
[17] Net Present Value at Company's weighted average cost of capital

Additionally, managing customer rate impact over the recovery period is important to help customers adjust to the investment and balance the bill impact. Customers will expect to see rate impacts that will be less than $0.00402 per kWh for residential and $0.00287 per kWh for business in both jurisdictions. This equates to an average rate change of 1.25% and 1.24% for residential and business customers, respectively, for this investment over the cost recovery period. Therefore, even while customers are seeing an additional rate increase during the cost recovery period, the overall impact of the DSM portfolio investment is a net bill reduction for both the residential and business customer classes.

1.5. Financial Recovery Method[18]

Evergy proposes modification of the EER structures for both jurisdictions, which is consistent with the KEEIA statute. Below is the language within the statute regarding allowable cost recovery mechanisms:

> *To comply with this section, the Commission may allow cost recovery mechanisms that further encourage investments in demand-side programs. Such cost recovery mechanisms may include, but shall not be limited to: (A) Capitalization of investments in and expenditures for demand-side programs; (B) recovery of lost revenue associated with demand-side programs; (C) decoupling; (D) rate design modifications; (E) accelerated depreciation on demand-side investments; and (F) allowing the public utility to retain a portion of the net benefits of a demand-side program for its shareholders.*

Proposed changes to the EER includes timely recovery of three financial components: Program Costs, Throughput Disincentive (TD), and Earnings Opportunity (EO) award[19]. Evergy is requesting approval of an update of the EER to begin collecting actual program costs and TD, which are measured and directly attributable to the DSM programs proposed in this filing. The EER will be updated annually following each program year and will include an additional reconciliation of prior periods' program costs and TD recoveries with carrying costs on any under- or over-recovery. The EO is proposed to be recovered over a 12-month period following final determination based on EM&V review in the year following each program period. Should any additional DSM programs and tariffs be filed under the KEEIA requirements for the program period, those would follow the above structure as well.

Evergy also proposes to include the recovery of unrecovered existing EER costs from periods prior to the effective date of this filing be recovered in the modified EER.

1.6. Timeline

KEEIA provides for a 180-day timeline for utility portfolio applications, which the Commission can expand to 240-days upon a showing of good cause. In order to facilitate the effective date of January 2023, Evergy proposes a 240-day procedural schedule to accommodate the Commission staff and other stakeholders for full review of the filing. The proposed procedural schedule will be filed in motion forthcoming in the near future.

[18] Refer to Appendix E

[19] More details on how each of three financial components are defined and calculated are provided in Section 7.

Evergy proposes a portfolio of programs to be effective January 1, 2023, through December 31, 2026. Such that Evergy can prepare for a successful launch on January 1, 2022, program set-up, educational outreach and marketing costs that will be expended in 2022 are proposed to be applied to 2023 expense recovery. In addition, some programs that have long-lead time for application completion, such as business measure applications, and that may extend past December 31, 2026, will follow a long-lead process defined herein. Long-lead measures and customer applications are addressed in Sections 4 and 5.

2. Stakeholder Engagement and Customer Insights

Customer-focused DSM programs are a key component of this filing and to ensure a successful DSM portfolio. Evergy leveraged insights many stakeholders and customer research. At a minimum, insights included review of the results from the Wichita State University (WSU) focus group, Evergy customer research and stakeholder interviews and workshops. This section provides additional detail on how stakeholder engagement and customer insights helped to shape the proposed portfolio.

2.1. Stakeholder Engagement

Evergy engaged a widespread and diverse set of stakeholders throughout the DSM portfolio development process to ensure understanding of state policy objectives and constituent needs. Evergy's proposed DSM plan integrates stakeholder feedback, with the portfolio reflecting feedback on the importance of program offering designed specifically for low-income (or income-eligible) and rural customers. Evergy's Residential Hard-to-Reach Program and robust education plan incorporates this feedback.

Evergy held three stakeholder workshops from June through August 2021. Evergy invited stakeholders representing state agencies, environmental organizations, low-income customer advocates, large energy consumer advocates, natural gas utilities and affordable housing advocates, among others. Through multiple individual interactions and three larger group meetings from June through August 2021, Evergy engaged this broad range of stakeholders to solicit feedback and address questions on the program planning process and resulting program plans.

Evergy considered stakeholder input in the development of this plan; specifically, their interest and desire to: make a connection with Evergy's overall resource plans; understand how DSM will be perceived by and integrated with customer needs - with customer education being a primary focus area, along with serving communities and income eligible households.

KEEIA DSM portfolio stakeholders included those listed in Table 3.

Table 3: DSM Portfolio Stakeholders

DSM Portfolio Stakeholders	
Atmos Energy	Kansas Housing Resource Center
Black Hills	Kansas Industrial Consumers (KIC)
Climate Action KC	Midwest Energy Efficiency Alliance (MEEA)
Climate Energy Project (CEP)	National Housing Trust
Citizens' Utility Ratepayer Board (CURB)	Natural Resources Defense Council (NRDC)
Kansas Corporation Commission (KCC) Staff	Sierra Club
Kansas Gas	

During these workshops Evergy presented and orchestrated a discussion around a myriad of topics including:

- Rationale for Evergy's DSM plan
- Importance of implementing DSM
- Overview of the planning process
- Draft program structures
- Resulting cost-effectiveness screening results
- Cost recovery
- Customer engagement strategies
- Insights gleaned from Evergy's customer-focused research.

The workshops also provided an opportunity for stakeholders to share questions, concerns and provide inputs to program designs and target market considerations.

In addition to the three stakeholder workshops, Evergy engaged with Kansas community partners and low-income advocates on August 18, 2021. This meeting with advocates and Kansas community partners was attended by 16 organizations (Table 4). The number of attendees and questions demonstrated a high level of interest for low-income advocacy of DSM programs with Evergy.

Table 4 – Community Partners and Advocates

Evergy KS Community Partners and Advocates	
Black Hills	Kansas Housing & KS Weatherization Assistance Program
Catholic Charities	Midwest Energy Efficiency Alliance (MEEA)
Citizens' Utility Ratepayer Board (CURB)	Mid-Kansas Community Action Program
Climate Energy Project (CEP)	National Housing Trust
Doorstep, Inc.	NEK-CAP, Inc.
First Call for Help, Hutchinson, KS	Sierra Club Kansas
Johnson County Aging & Human Services Olathe Outreach	Sterling Strategies
Kansas Corporation Commission (KCC) Staff	The Salvation Army, Manhattan & Emporia, KS
Kansas Gas Service (KGS)	

2.2. Customer Insights

Evergy recognizes that customer focused programs are a key component for a successful filing and approved DSM portfolio. Leveraging an internal team dedicated to gathering customer insights on DSM through primary data collection was an imperative design strategy, along with utilizing secondary data resources.

Primary data insights are collected through appliance saturation studies[20] that are used for load forecasting, the IRP, as well as specific Evergy customer research, which is further described below. Secondary data is collected through industry resources, such as ESource and American Council for an Energy Efficient Economy (ACEEE). Insights include areas such as customers' equipment information, energy usage, attitudes toward energy and importance of reducing energy use and costs, along with other customer characteristics. This culmination of data informed program designs and targets and provided guidance on target market size, savings

[20] Docket No. 19-KCPE-096-CPL, Annual Update to Evergy's Integrated Resource Plan (updated June 2, 2021)

potential and market needs. It also highlighted the need of educating the market, including customers and contractors and trade allies.

In addition to gathering stakeholder feedback as described in Section 2.1, Evergy reviewed and integrated customer insights gleaned from the focus group research enlisted by the KCC Energy Division and Utilities Division (Staff) conducted by WSU. The results of this research, as identified by KCC Staff, emphasized the importance of energy education to customers and the need to prioritize low-income (income-eligible) energy efficiency programs. The survey conducted by WSU also identified strong messages that emerged about what customers desired from their utility. For example, feedback included: "The Evergy participants desired a stronger involvement from the utility provider. Their expectation was for the utility to offer, administer, and communicate energy efficiency programs."[21] This filing supports this desire from Evergy customers.

To further explore its Kansas customers perspectives around DSM opportunities, Evergy conducted a residential customer quantitative (large sample) survey in July 2021. The survey focused on customer energy efficiency awareness and preferences, as well as insights into the costs and value proposition of utility programs. Appendix G includes a full summary report of the qualitative survey. A representative sample of 550+ Evergy residential customers provided insights on over 25 questions about these topics.

Key findings included:

- Strong support is seen for **expanding energy efficiency programs** currently available in Missouri to customers in Kansas (95%).
    - 79% of customers are **willing to pay a fee** - 6% would pay $10 per month, with the highest percentage preferring $5.00-$5.99/month.
- The benefit of **"a lower cost to me" dominated** all other motivations to reduce use, especially among the lower income groups.
    - Most reported practicing "no-cost" methods to reduce usage; mainly turning off lights, using shades or blinds, or using ceiling or floor fans.
    - There was a lag of energy efficiency in homes among renters, younger, multi-family, or low-income customer participation
- If Evergy offered a program to assist in the cost of upgrades, 75% of customers would be **somewhat more, or much more, likely to make upgrades**.
- After reading a brief description of the Pay As You Save (PAYS)[22] program, 69% of customers reported an **interest in participating in an on-bill financing** option.
- When asked if low income or underserved customers should receive extra benefits, 83% of customers said **low income or underserved customers should receive extra benefits** or offers from Evergy programs.

Understanding that Evergy customers were supportive of expanding EE programs and understand the value proposition of EE reinforced Evergy's approach to its portfolio development.

[21] *Residential attitudes toward utility sponsored energy efficiency programs in Kansas*; Jarman, Parcell, Wichita State University (2020), pg 15

[22] On-bill financing program

3. Portfolio Development and Program Design

Evergy uses a systematic and comprehensive approach to its portfolio development, program design and modeling of measures, costs and impacts.

Utility DSM programs integrate interventions to overcome barriers to adoption of EE practices and upgrades. Through interventions such as financial incentives, financing, education and training, direct install and load control, DSM programs can address barriers such as:

- Lack of or incomplete understanding of the benefits of DSM
- Low visibility to the financial impact of energy consumption during costly peak periods
- Split incentive for the beneficiary versus the person paying (most commonly present with multi-family rental units and leased commercial buildings)
- Financial constraints, which is particularly relevant for traditionally underserved groups such as low-income, renters and small commercial customers
- Need for financing options when capital investments hold higher out-of-pocket costs.

To meet customers' unique needs and overcome the various barriers, Evergy's proposed portfolio integrates a variety of program design elements, including:

- Customer outreach and targeted marketing educating customers about the benefits of DSM
- Proactive customer engagement, which includes a high level of concierge type services, specifically for customers that may face split incentive challenges
- Incentives to reduce up-front costs – depending on the measure this may include upstream to retailers, midstream to market actors such as contractors and downstream to customers
- Direct installation of easy to install measures to ensure proper installation and instant savings
- Education to influence behavior, increase DSM awareness and adoption and encourage longer-term market effects
- Energy assessments to serve as a vehicle to inform customers of their building needs and encourage high-efficiency installations
- Financing to encourage higher efficiency/higher-cost installations
- Long-lead process to provide assurance of rebates [23]

[23] Long-lead process is defined as transition time at the end of the KEEIA DSM 2023-2026 plan that will provide customers, contractors, trade allies and market actors with continuity between DSM cycles for projects that require pre-approval and with lead times greater than 90 days. Evergy will provide a written commitment letter of incentives for eligible long-lead projects. Projects with estimated completion dates not longer than one year following current cycle completion; however up to approved threshold cap within the approved KEEIA cycle budget. Payments to customers will be made upon completion, and any projects that fail to complete within this specified timeframe will be ineligible.

Evergy will also leverage contractors and trade allies, also referred to as market actors, to serve as “sales” partners for the programs. Contractors and trade allies have direct access to customers and in that role are influential with mutual customers’ decisions. Additionally, economic activity associated with DSM is a resulting benefit to impacted businesses such as HVAC and lighting contractors. A “contractor” can quickly evolve to an Evergy “trade ally” given the economic benefit to their company by partnering with Evergy and promoting its DSM programs. For example, two local trade allies who support customers in Kansas and Missouri share:

“The Evergy incentives that we are able to offer in Missouri help alleviate some of the cost concerns our customers have when wanting to purchase higher-end, more efficient equipment. These rebates provide even more value to the customer and Kansas customers are continually disappointed they don't get the same opportunity as our Missouri customers. Any additional rebates offered to customers will help them justify being able to spend more.” – *Residential Trade Ally – Anthony Plumbing, Heating & Cooling*

“We are a Kansas incorporated small business. We have been hiring staff in other states to keep up with our work in those states; however, we have not hired anyone in Kansas because we cannot generate the same demand for energy efficiency upgrades.” – *Commercial Trade Ally - ROI Energy, LLC*

The proposed portfolio design includes targeted education, proactive outreach and information sharing with these important market actors for the success of Evergy’s portfolio.

3.1. Measure, Program and Portfolio Analysis

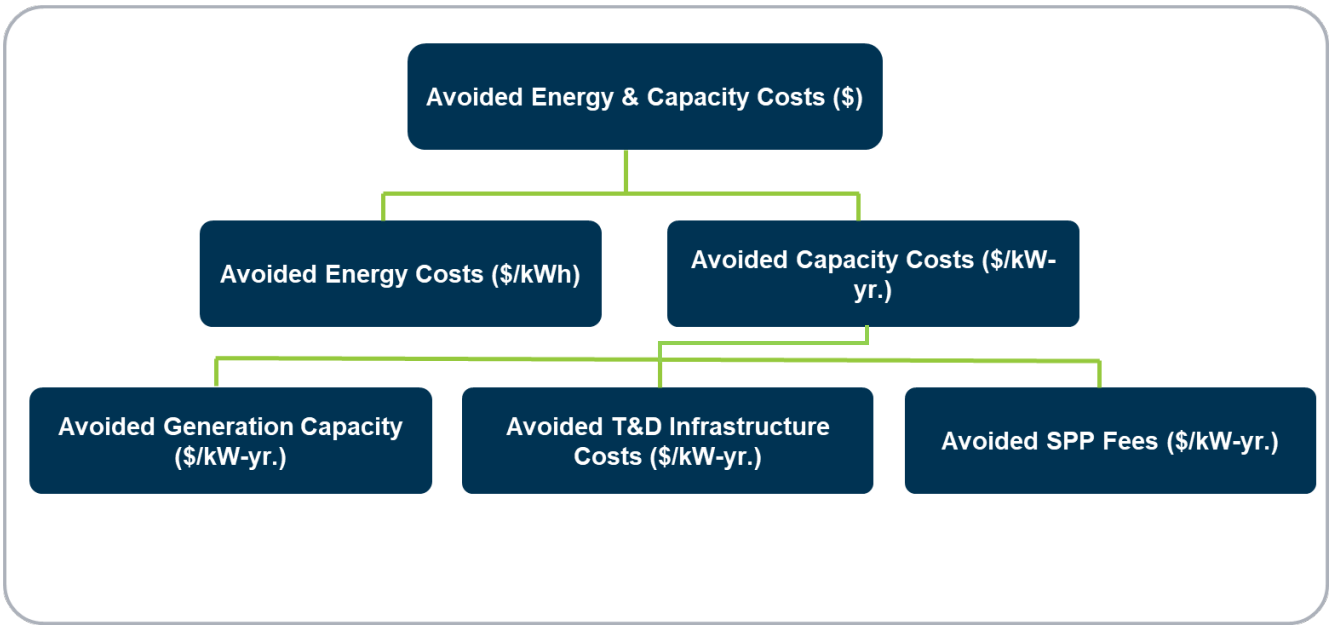
Evergy uses a bottoms-up systematic approach to its portfolio design. The key to the program development process is identifying benefits for customers and the community, while seeking and incorporating feedback from stakeholders and interested parties. Figure 7 illustrates the high-level portfolio design process.

Figure 7: High-level Portfolio Design Process

3.1.1. Avoided Costs Methodology in Program Analysis

In the development of any DSM portfolio, avoided costs are a key input into the calculation of program benefits and ultimately in the benefit cost analysis (cost effectiveness) in the California Standard Practice Manual tests. Avoided costs can be broken down into multiple components to help determine the value or benefit of a kW or kWh saved. A higher-level breakout of avoided costs is splitting the value into avoided energy costs (expressed in $/kWh) and avoided capacity costs (usually expressed in $/kW-yr). Avoided capacity costs can be broken down into avoided generation capacity, transmission and distribution infrastructure and Southwest Power Pool (SPP) fees. Figure 8 represents the avoided cost hierarchy.

Figure 8. Avoided Costs Hierarchy



Within prior utility regulatory proceedings in Kansas, the avoided costs values have been debated by stakeholders and the KCC has provided views on avoided cost and how it should be treated within a DSM filing. Since these proceedings much as occurred. Evergy was formed by the merger of Westar and KCP&L; EE technologies have changed; and expectations of future energy needs and resource types have changed considerably. Considering this background and Evergy's generation needs, further explanation of the avoided capacity cost methodology and approach for this KEEIA filing is warranted.

For the purposes of this filing, Evergy utilized the following methodology for attributing avoided costs to the various components.

Avoided energy costs ($/kWh)

Description of methodology: Evergy utilized forward energy price forecast by hour over the next 20 years based on the price forecast from Evergy's 2021 IRP[24]. This price forecast is an expected value across 18 different endpoints and factors in a range of forecasts for natural gas and carbon prices.

Rationale for approach: This approach has been utilized by other utilities and is consistent with how the energy value of DSM programs are assessed through the IRP. This approach uses a forecasted expected value across several disparate future scenarios rather than simply relying on historical or current prices. It also incorporates a range of potential future scenarios into the assessment of avoided energy cost as opposed to relying only on the current environment or recent history, which may not be representative of what can be reasonably expected to occur in the future.

[24] Docket No. 19-KCPE-096-CPL, Annual Update to Evergy's Integrated Resource Plan (updated June 2, 2021)

Avoided generation capacity costs ($/kW-yr)

Description of methodology: Evergy developed Evergy Kansas Central and Evergy Metro specific models of expected costs to meet additional capacity needs in the 20-year horizon. Evergy factors in short term "market" capacity costs and the cost of building new generation (commonly referred to as cost-of-new-entry or CONE), depending on resource plans and load forecasts which are consistent with Evergy's 2021 IRP[25].

Similar to the use of scenario analysis and expected values in the IRP, the avoided generation capacity cost is also based on an expected capacity cost each year across six different scenarios. These scenarios are based on two different plant retirement plans and three different load forecasts which are all consistent with the latest IRP.

Plant Retirements. Each portfolio received 50 percent probability and was used to calculate Evergy's capacity balance in each year.

- *Preferred Portfolio (with modifications based on ongoing Predetermination[26] Docket)*: Plant retirement schedule identified in Evergy's 2021 IRP[27].
- *Accelerated Retirements*: Plan modeled in 2021 IRP, which included more accelerated plant retirements and was among the most cost-effective plans modeled.

Load. Low, Mid and High (Electrification) forecasts were used which are consistent with Evergy's 2021 IRP. The probabilities assigned to these forecasts were also consistent with the IRP at 35%, 50% and 15%, respectively.

In each of the six scenarios, if Evergy is "short" capacity in a given year (accredited capacity is less than capacity requirement – including reserve margin), the value of capacity is set at CONE, which is the levelized cost of a new natural gas-fired combustion turbine (CT). If Evergy is "long", the value of capacity is set at the current market rate of capacity. A weighted average value is then calculated across the six scenarios to create an expected value for the cost of capacity.

Figures 9 and 10 below present Kansas Central and Kansas Metro generation capacity costs, respectively, determined from the methodology described above and utilized in this filing.

[25] Ibid.

[26] Docket No. 22-EKCE-141-PRE, Determination of the Ratemaking Principles and Treatment that will Apply to the Recovery in Rates of the Cost to be Incurred for Certain Electric Generation Facilities Under K.S.A. 66-1239

[27] Docket No. 19-KCPE-096-CPL, Annual Update to Evergy's Integrated Resource Plan (updated June 2, 2021)

Figure 9: Kansas Central - Avoided Generation Capacity Cost Expected Value, $/kW-year

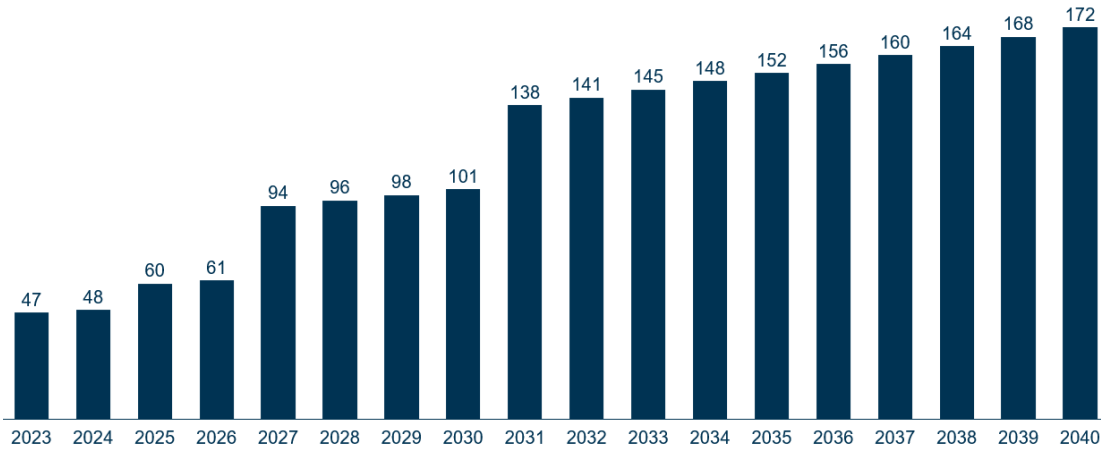
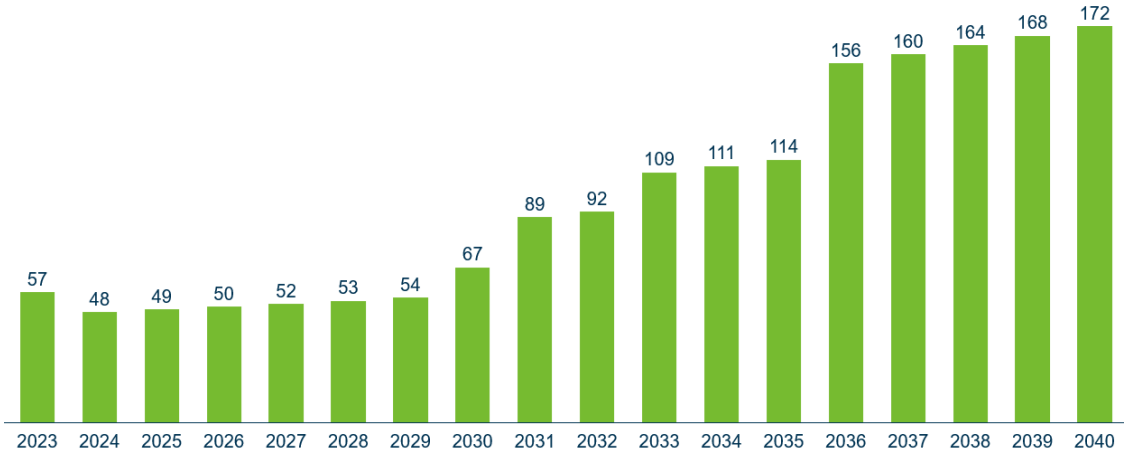


Figure 10: Kansas Metro - Avoided Generation Capacity Cost Expected Value, $/kW-year



Rationale for approach: Utilizing a mix of market-based capacity costs and CONE is a common method of valuing generation capacity. This approach factors in the availability of short-term capacity purchases at a lower cost, but also recognizes that longer-term capacity needs that would eventually require new generation be built, absent offsets from programs like DSM. Using a CT as the CONE assumption is also a common practice, which recognizes that CTs are typically the lowest-cost traditional capacity resources (on a $/kW basis) and also do not typically have the complexities around accreditation which renewable capacity would have (for example, CTs are assumed to be accredited approximately at nameplate capacity). The rationale for the selected scenarios and probability weightings is described below.

Plant Retirements. New resource additions modeled in the IRP were not included in this calculation (beyond currently contracted resources and the resource addition included in

Evergy's predetermination docket[28]). This exclusion allows supply- and demand-side resources to be compared on an equivalent basis in the IRP. If supply-side resource additions were included in calculating the value of demand-side resources, this would unfairly reduce the calculated benefit of demand-side resources in the screening / portfolio development process versus allowing these resources to realize the same level of value which supply-side resources provide in the IRP.

Given the significant uncertainty around both policy and technology which could both drive an accelerated move toward non-emitting resources, the two plans are weighted equally for the purposes of valuing DSM.

Load. Three load forecast scenarios (and accompanying probabilities) were selected to be consistent with Evergy's 2021 IRP.

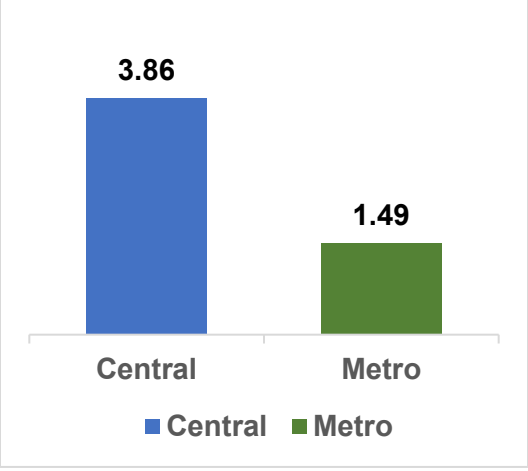
Avoided transmission and distribution infrastructure costs ($/kW-yr)

Description of methodology: Evergy utilized its current planning load forecasts and long-term load growth-related capital forecast to calculate an "incremental" and "system-wide" avoided cost. These costs are for both transmission and distribution (T&D) infrastructure given the interrelated nature of T&D costs needed to serve growing load.

- *Incremental:* Uses forecasted load growth-related capacity spend 2022-2030 ($), fixed charge rate of 8% and 2021-2030 load growth (MW) to calculate an avoided cost of incremental MW.
- *System-Wide:* Uses forecasted load growth-related capacity spend 2022-2030 ($), fixed charge rate of 8% and 2022-2030 average total load (by jurisdiction) to calculate avoided cost across overall system MW.

Figure 11 below presents Kansas Central and Kansas Metro T&D infrastructure costs, determined from the methodology described above and utilized in this filing.

Figure 11: System-Wide Avoided T&D Infrastructure Costs $/kW-year; 2021 $



[28] Docket No. 22-EKCE-141-PRE, Determination of the Ratemaking Principles and Treatment that will Apply to the Recovery in Rates of the Cost to be Incurred for Certain Electric Generation Facilities Under K.S.A. 66-1239

Rationale for approach: Given the need for system planners to avoid overloads on infrastructure and maintain system reliability, there is large variation in the value provided by DSM programs based on their ability to "target the incremental MW" and their "controllability". For that reason, two very different values are calculated for avoided T&D cost which should be applied based on how well a DSM program can be targeted and controlled. As an example, managed charging for new electric vehicles is a program which can be both *targeted* and *controlled* – because it would be applied to new load additions in a managed way. Based on this, it should receive the higher "incremental" avoided cost identified above. Residential DR, on the other hand, should receive the lower "system-wide" value identified above because it has not historically been targeted to ensure it is offsetting an incremental MW and is also not directly controllable. Therefore, it cannot be guaranteed to offset a potential overload.

Avoided SPP fees ($/kW-yr)

Description of methodology: Evergy utilized calculations of reduction of SPP transmission related fees associated with peak and energy reduction plus an estimate value of system-wide T&D avoided infrastructure capacity as a result of reduction in demand across Evergy.

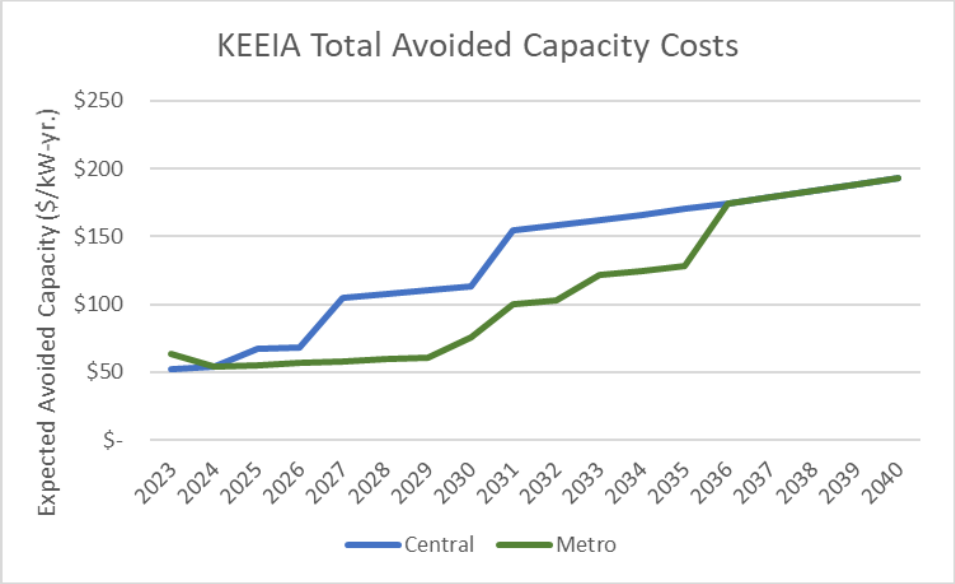
Rationale for approach: Regarding SPP's transmission-related fees, there are three expense types (SPP refers to them as schedules) that are impacted by reductions in peak MW and energy MWh reductions to load.

- Schedule 1-A is used to recover SPP's costs associated with administering the Integrated Marketplace (IM) and is based on the average of the 12 monthly peaks from the previous year.
- Schedule 11 facilitates the sharing of costs for transmission projects throughout the SPP region and uses a market participant's (MP) load ratio share, a measure of an MP's average monthly peak for the year divided by the average SPP system-wide monthly peak for the year, to allocate costs.
- Schedule 12 is used to recover FERC administrative costs, a pass-through from SPP to MP's and is calculated using an MP's annual MWh of energy for load.

The fees associated with these three SPP schedules will be reduced and can be calculated with reductions in MWs and MWhs resulting from implementation of the proposed KEEIA programs.

Figure 12 presents Kansas Central and Kansas Metro total avoided capacity costs used in this filing by summing generation capacity costs and T&D infrastructure costs as described above.

Figure 12 - Total Avoided Capacity Costs (KS Central and KS Metro)



3.1.2. Portfolio Development

Evergy developed the proposed portfolio by extensive and iterative balancing of many elements including costs, forecasted energy savings and programs that appeal to all Kansas customers, such that the portfolio also aligns with Evergy's 2021 IRP. The IRP considers demand-side energy savings from DSM programs as but one component of Evergy's goal to cost-effectively meet the energy needs of Kansas customers for the period 2023-2042.

The proposed portfolio includes nine programs: Whole Efficiency programs, Hard-to-Reach programs, DR programs, and Education for residential and business customers. A Pilots Incubator is also proposed, which will be used to develop innovations for new or existing concepts that may serve either residential or business customers. Figure 13 below summarizes the key components of the proposed portfolio.

Figure 13: KEEIA 2023- 2026 DSM Proposed Portfolio

4. Residential Portfolio

Evergy's portfolio is designed to engage all customers, while focusing on the most vulnerable customers by offering higher value rebates and/or free services. These programs are designed with the ultimate goal of transforming the market for energy efficiency in Kansas, providing high quality education and outreach and creating economic growth for Kansas businesses.

4.1. Overview

Evergy's residential portfolio level savings, budget and cost-effectiveness for each jurisdiction are provided below in Tables 6-8, respectively. The residential portfolio is comprised of broad scale programs and public benefit programs, which includes hard-to-reach and education. These programs are defined below.

Broad Scale Programs:

The **Whole Home Efficiency Program** will provide a wide range of EE opportunities for customers to reduce their energy usage and increase home comfort.

The **Home Demand Response Program** is designed to offer customer's incentives to for supporting and improving Evergy load shapes during peak demand periods.

Both broad scale programs have been designed to meet cost-effectiveness goals and will provide significant savings, while allowing participation for all of customers. All programs exceed TRC of 1.0 and a RIM of 0.7.[29]

Public Benefit Programs:

The **Hard-to-Reach Homes Program** is targeted to income-eligible and rural customers. In order to drive participation in these demographics, Evergy proposes to deliver a deeper level of support, which includes no-cost direct installs, personalized home energy assessments and enhanced incentives and rebates. These offers will be presented in a comprehensive way to deliver maximum customer value.

The **Home Energy Education Program** is designed to drive improved customer energy use behaviors and increased customer awareness around no- or low-cost ways to save energy. Evergy proposes to include broad customer education around measures in homes that impact costs, as well as serve as a pathway to direct customers to other Evergy programs that may be within and outside of KEEIA to assist the customer, depending on the customer's specific need.

[29] Docket No. 16-KCPE-446-TAR, Application of KCP&L for Approval of its Demand-Side Management Portfolio Pursuant to the Kansas Energy Efficiency Investment Act, page 35.

As defined in the KEEIA statute, cost effectiveness is not required for Public Benefit programs.[30]

Table 5: Total Residential Portfolio Savings for Kansas Central and Metro

Total Residential Portfolio Savings for Kansas Central										
Net MWh Savings						Net MW Savings				
PY1	PY2	PY3	PY4	Total		PY1	PY2	PY3	PY4	Total
15,542	24,745	32,235	36,293	108,815		36.7	41.9	56.7	74.2	209.5
Total Residential Portfolio Savings for Kansas Metro										
Net MWh Savings						Net MW Savings				
PY1	PY2	PY3	PY4	Total		PY1	PY2	PY3	PY4	Total
6,132	10,005	12,807	14,538	43,482		13.9	15.8	21.3	28.0	79.0

Table 6: Total Residential Portfolio Budget ($ 000s) for Kansas Central and Metro

Budget ($ 000s)	Total Residential Portfolio Budget for Kansas Central				
Cost Category	**PY1**	**PY2**	**PY3**	**PY4**	**Total**
Incentives	$5,147.5	$6,456.2	$8,778.7	$11,019.1	$31,401.5
Delivery	$850.3	$1,114.9	$1,355.6	$1,521.7	$4,842.4
Administration	$110.9	$145.0	$176.1	$197.5	$629.5
Evaluation	$147.8	$190.4	$229.2	$256.0	$823.5
Total	$6,256.5	$7,906.5	$10,539.6	$12,994.3	$37,696.9
Budget ($ 000s)	**Total Residential Portfolio Budget for Kansas Metro**				
Cost Category	**PY1**	**PY2**	**PY3**	**PY4**	**Total**
Incentives	$1,858.6	$2,431.7	$3,357.6	$4,272.0	$11,919.9
Delivery	$333.1	$432.5	$513.7	$579.3	$1,858.7
Administration	$43.5	$56.3	$66.8	$75.2	$241.8
Evaluation	$58.0	$74.1	$87.3	$97.9	$317.2
Total	$2,293.1	$2,994.6	$4,025.3	$5,024.4	$14,337.5

[30] KEEIA, Section 1.5.c.1.D - Programs targeted to low-income customers or general education campaigns do not need to meet a cost-effectiveness test, so long as the Commission determines that the program or campaign is in the public interest and is supported by a reasonable budget in the context of the overall budget.

Table 7: Residential Portfolio Cost-Effectiveness Ratios for Kansas Central and Metro

Total Residential Portfolio Cost-Effectiveness Ratios for Kansas Central					
	TRC	**UCT**	**RIM**	**SCT**	**PCT**
Whole Home and Demand Response Programs	4.7	2.7	1.0	5.7	5.8
Total Portfolio (including Public Benefit)	3.6	2.2	0.9	4.4	4.6
Total Residential Portfolio Cost-Effectiveness Ratios for Kansas Metro					
	TRC	**UCT**	**RIM**	**SCT**	**PCT**
Whole Home and Demand Response Programs (including Public Benefit)	4.0	2.4	0.8	4.8	7.0
Total Portfolio	3.1	1.8	0.7	3.8	5.6

4.2. Whole Home Efficiency Program

The Whole Home Efficiency Program provides for multiple channels that focus on EE installations in single-family and multi-family residences. The program is designed to improve equipment operational performance and home comfort. Offering rebates designed to cost-effectively help close the price gap between baseline-level equipment and high-efficiency equipment so customers may benefit from the best technology.

Evergy proposes three components for participation: Home Comfort, Home Products and Energy Assessment and Energy Savings Kits. These options are described below.

Home Comfort

HVAC equipment rebates - Heating and cooling equipment is a large investment and customers often opt for the least expensive option. This rebate will offset the incremental cost of investing in the lower efficiency, less expensive equipment to a higher efficiency but more expensive option. This rebate is can only applied to replace broken or inoperable equipment. Eligible efficient heating equipment must be “like for like” technology to existing technology.

Air sealing improvements and insulation rebates - To optimize performance and comfort of the home, Evergy proposes to recruit and train a contractor and trade ally network to promote these rebates. Evergy proposes to provide a customer application intake tool to streamline rebate processing and quality assurance/quality control (QA/QC) of customer projects to ensure that quality standards are maintained. The program may also offer do-it-yourself (DIY) insulation rebates for customers that purchase and self-install insulation in attics.

On-bill financing – Evergy proposes on-bill financing to help eliminate the barrier of upfront cost when upgrading to energy efficient equipment. On-bill financing, in combination with rebates, makes the adoption of EE upgrades more attractive to both market-rate and hard-to-reach customers.

Home Products

Energy Efficient Products - Discounted in-store retail and online efficient products will be provided to Evergy customers with easy access. Evergy proposes to provide customers with instant discounts on an online marketplace and/or partner retail stores for energy-efficient products such as LEDs, air purifiers, smart power strips and other efficient equipment.

Appliance Recycling - Homeowners often keep inefficient refrigerators and freezers and other small appliances, such as wall AC units, that are high energy users in garages or outbuildings. An appliance recycling program removes this expensive and burdensome equipment from customers who do not realize the high impact these systems have on their electric bill. Providing the option to recycle these inefficient units not only helps customers to rid of these units but it also prevents the units from returning to the secondary market.

Energy Saving Trees - Providing energy-saving trees is a unique and important measure. Trees have a useful life of decades and only increases in value over time. Shade trees are seasonal and apply cost-effective energy reduction in the summer, while in the winter trees allow sun exposure to help heat a customer's home. Evergy proposes to operate several no-cost tree distributions during tree planting seasons and propose to focus on underserved income-eligible neighborhoods.

School Kits –Evergy proposes to offer school kits that are uniquely designed to inspire the next generation to take action and create a more energy efficient future. Evergy's teams will coordinate with local schools to provide interactive, educational program materials and energy efficient kits focused on energy efficiency and sustainability. Evergy aims to help families improve their cost of living through implementing EE measures and making behavior changes, while also providing a unique way to promote our other utility opportunities.

No Cost Energy Assessment and Discounted Energy Savings Kits:

Evergy proposes to recruit experienced contractors and trade allies to provide no-cost energy assessments (in-person or virtual) and discounted energy savings kits for multi-family units and non-LI single family homes. Evergy proposes that building owners may use their own contractors or ask for recommendations for more comprehensive projects that could be funded under the Business Energy Efficiency Program.

For multi-family properties, there will be targeted outreach to educate property owners and managers on the benefits of EE to them. These benefits include but not limited to:

- lower tenant turnover,
- tenant rental satisfaction increases and
- lower rent default since less money is being spent on energy use, which frees up money to apply toward rent

According to US Census data, within Evergy's Kansas service territory, 34 percent of the multi-family housing units are market rate (above 80% Area Median Income (AMI)). This equates to potential opportunity of approximately 42,000 multi-family units to effect greater energy efficiency. Section 4.5, Figure 13 shows the mix of market-rate and income-eligible multi-family units.

4.3. Home Energy Education Program

This program focuses on influencing customer's energy behaviors through education and will utilize customer marketing and outreach, online self-education tools and community events. Evergy proposes a specific focus on areas where the most need is identified, such as in rural and low-income communities. This program's objective is to help customers understand where energy is being used the most in their homes, provide tips to reduce energy use, recommend low-cost ways to save money and provide for on-site enrollment opportunities.

The Home Energy Education Program is designed with the goal of educating customers on EE. Although this program results in energy and demand savings through the Home Energy Education Report and LED giveaways for "of-need" customers, this program is not required to meet a cost effectiveness target, nor does it include specific goals for savings. Rather, the program is designed to align with stakeholder feedback and other research sources that identified education as one of the largest and highest priority needs in the Evergy Kansas territories.

The six components of the Home Energy Education Program are detailed below.

Marketing for Residential Education

Evergy proposes to deploy an integrated marketing campaign for its residential programs. Evergy's proposed approach will drive awareness, understanding, consideration and enrollment to our programs across the portfolio. During the customer awareness and understanding phases, Evergy will pay special attention to helping customers understand their energy usage and the importance of energy efficiency, through personalized reports, messages and educational materials.

Digital Tools (Online Education and Outreach)

Evergy proposes to offer digital tools and communication of personalized energy savings recommendations. This includes online self-service energy assessments designed to educate customers on the most impactful EE improvement opportunities for their home. Through this option, the Company aims to grow its customers' understanding of how their home uses energy and help the customer to create and implement a plan to lower their usage.

Community Events

Stakeholders and Evergy agree that it is important that customers and communities deem Evergy as a trusted advisor and that in-person interaction is critical to building those relationships and trust. Evergy proposes to host community events that will provide opportunities to educate customers, provide EE information, offer energy efficient products and assist with program enrollment. Evergy's goal is to meet customers where they are in the community to demonstrate our commitment towards valuing individual needs. A concentrated focus will include supporting customers who may have limited access to the internet or other sources of information.

Rural Community Engagement

Evergy proposes to provide enhanced outreach to geographically hard-to-reach customers through this program to create equity for customers who may not be reached by these programs through a traditional approach. Evergy will identify and work with community groups who may be participating in the LILIES (see below) initiative and use specific customer targeting to reach rural customers.

Kansas LILIES (Low Income Leadership in Essential Services)

The LILIES initiative is designed to offer support in three different but very interconnected home components: Energy Efficiency, Home Health and Structural Repairs/Integrity. Evergy uses a similar community-based design in Missouri, Low-Income Leadership Assistance Collaborative (LILAC). The premise of this collaborative is to bring together regional partners who offer services to the most at need in our Missouri community. We propose to apply this approach to Kansas and will work with various partners to assist in providing services to income-eligible customers through the creation and evolution of a stronger network of support. Throughout Evergy's stakeholder engagement process (Section 2.1), stakeholders expressed a high level of interest in the concept of Kansas LILIES.

Home Energy Education Report

Evergy proposes to offer a Home Energy Report (HER), that is both a behavioral EE and educational program and provides residential customers with household insights on their specific energy usage. The HER will be delivered by email and/or to the customer's home in a paper format. The HER will be composed of informational modules to help customers better understand and manage their energy use more effectively.

Informational module examples include:

- Similar home comparison,
- Energy comparisons over time,
- Energy efficiency tips, and
- Utility program promotions

Evergy also proposes to offer an income-eligible version of the HER to help those customers who may need different messaging. Informational module examples include:

- Promotion of free direct installation of energy efficiency measures and energy assessments,
- Low to no cost energy savings tips, and
- Utility billing assistance programs, and promotion of community assistance programs

4.4. Home Demand Response Program

The Home Demand Response (HDR) program is designed to help customers better manage energy use in their home and reduce the impact on the utility grid during times of peak demand. This program will consist of two components: smart thermostats and water heater controllers.

The HDR program provides opportunities for customers to program these smart devices to during lowest cost hours, allowing for participation in Time-of-Use (TOU) programs easier, as well as allowing customers to participate in both winter or summer demand events to earn additional incentives. This program consists of two components; smart thermostats and water heater direct load control.

Smart Thermostats

New Thermostats

The HDR program enables customers to acquire smart thermostats through:

- Bring Your Own (BYO) - Customers with existing eligible smart thermostats can enroll in the program for an enrollment incentive and participate in DR events to receive annual incentives.
- Do It Yourself (DIY) - Eligible customers can receive a thermostat and a self-installation kit from a sales channel, such as an Evergy online platform, and enroll the thermostat into the program and receive incentives for participating in the DR program.
- Direct Install (DI) - Eligible customers receive a smart thermostat from a sales channel, such as an Evergy online platform or call center, and can choose to have it installed by the utility at no cost. These customers can then participate in the DR events for annual incentives.

Evergy developed the HDR program with customer trust in mind. Communication, control and comfort are at the forefront of that trust. For DR events, customers will be notified in advance and the thermostat temperatures will be adjusted to pre-determined event settings. During an event, customers may override at any time.

In the first two program years, Evergy anticipates focusing on recruiting BYO thermostat customers since market penetration of these devices has begun and many customers will already own an eligible smart thermostat. Based on feedback from multiple device manufacturers, there appears to be over 50,000 smart thermostats already within homes in Evergy KS territories. With BYO being the lowest cost acquisition channel, this will help strategically manage the budget while re-engaging the market. Towards PY3 and PY4, after much of the BYO potential is achieved, we will transition to adding more of the Do-It-Yourself devices and Direct Installation devices to the program.

Existing Thermostats

Westar and KCP&L began offering one-way communicating thermostats to customers circa 2009 and 2007, respectively. Evergy has included the demand reduction associated with these

thermostats in its annual goals for HDR in both jurisdictions as Evergy expects these customers will continue participating in DR events as they have historically been. Evergy has included the cost to continue to provide maintenance on these one-way thermostats, if technical assistance is required for the customer. Although these thermostats are nearing the end of useful life, as seen in prior Kansas filings of thermostat EM&V[31], Evergy demonstrates that it is cost-beneficial to continue to support and call these devices until these one-way stats are fully phased-out over the next several years.

Water Heater Direct Load Control

Evergy proposes to provide customers with a rebate to obtain water heater controllers that optimize water heating usage and participation in DR events. This is similar to how smart thermostats operate for HVAC systems. The two methods for customer participation include:

Direct Install (DI): Evergy proposes eligible customers will receive a direct load controller from a sales channel, such as an online platform or requested through a call center. The customer may choose to have Evergy install at no cost, which will allow the customer to participate in the DR events for annual incentives.

Bring Your Own (BYO): Evergy proposes to allow customers with new or existing eligible direct load control (DLC) devices on their water heaters to enroll in the HDR program online and participate in DR events to receive annual incentives. The program may include eligible water heaters with DLC built in as well.

4.5. Hard-to-Reach (HTR) Homes Program

As described in Section 4.1, the HTR Homes program targets income-eligible and rural customers and income-eligible multi-family properties. In order to drive participation in these demographics, this program includes free or enhanced rebates[32].

One area Evergy commits to focus on is our Kansas Multi-Family Properties. There is finite, statistical evidence that there is a great need and we are in the position to begin making impacts on these most vulnerable and in-need customers.

According to US Census data, within Evergy's Kansas service territory, 66 percent of the multi-family housing units are income eligible (at or below 80 percent AMI) equating to an opportunity of approximately 84k multi-family units. Figure 14 provides a chart representing the mix of multi-family market-rate and income-eligible units, and Figure 15 is a map of income eligible properties in Evergy's service territory in Kansas.

[31] Docket No. 18-KCPE-124- TAR ("18-124 Docket"); KCP&L-KS Legacy Thermostat Evaluation, Measurement & Verification Study, filed 101-19

[32] Exceptions to free or reduced rebates are Energy Saving Trees and Appliance Recycling components as these already cover 100 percent of the costs for participants.

Figure 14. Evergy Kansas - Multi-Family Market Rate and Income Eligible Unit Counts

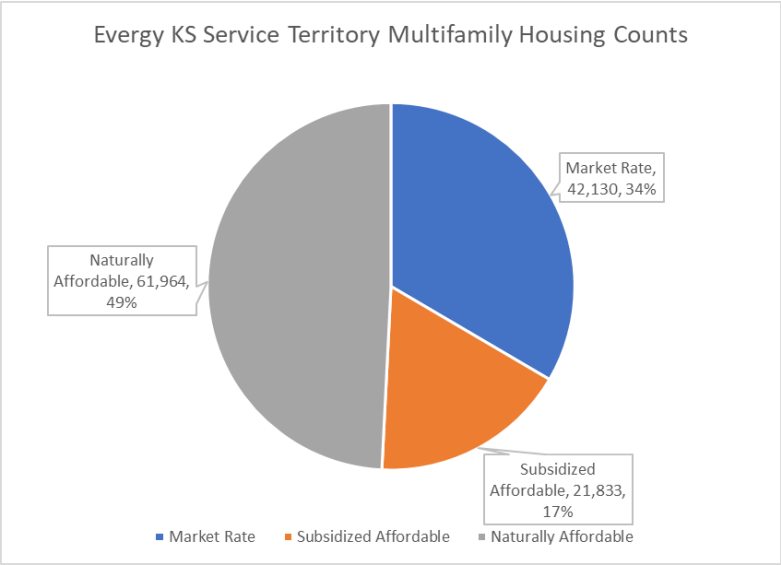
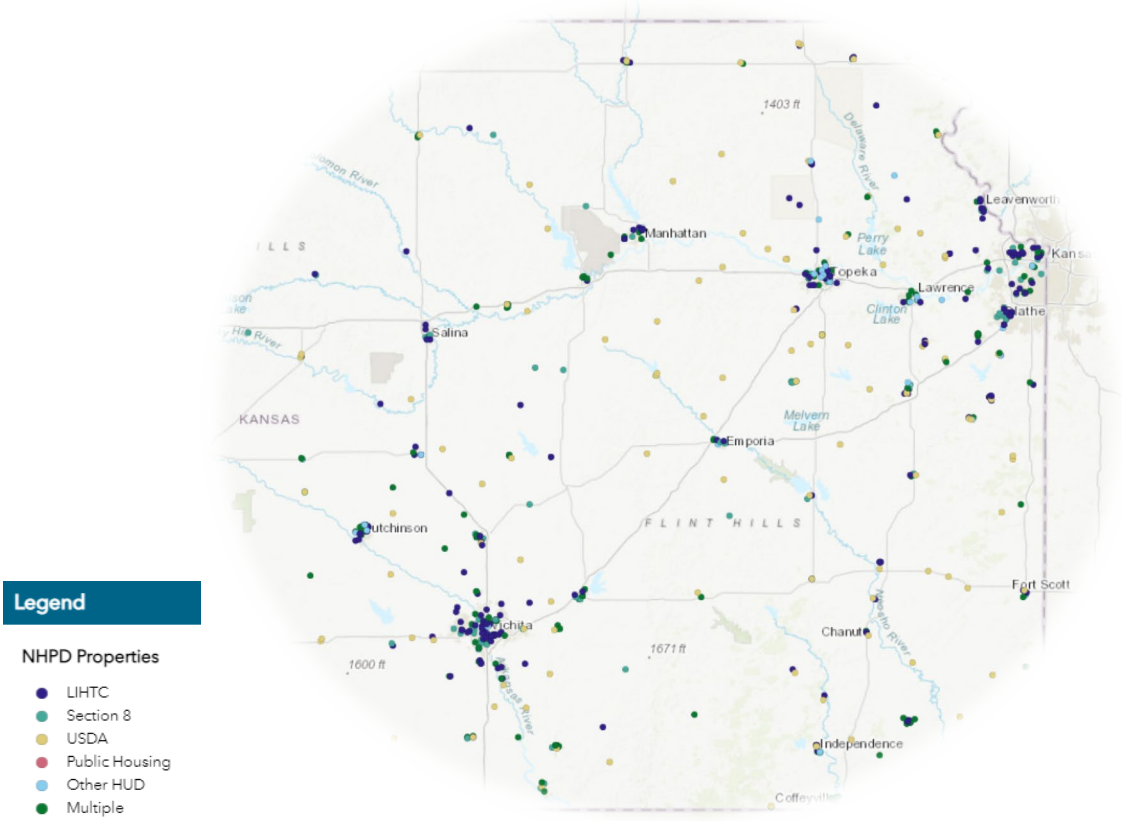


Figure 15. Evergy Kansas – Income-Eligible Properties Map[33]



[33] Source: National Housing Preservation Database

This information helps to support Evergy's approach for increased focus and program offers designed specifically for this demographic. Evergy proposes targeted "concierge-style" outreach to educate property owners and managers on benefits of EE for both them as well as the Evergy customer. These benefits include, but are not limited to:

- lower tenant turnover,
- increase in tenant rental satisfaction
- lower rent default since if less money is being spent on energy use, renter income can be used toward rent

This program will also have components available for our single family customers as well. Single family and multi-family income eligible criteria are defined in Appendix A.

Below are the components of the Hard-to-Reach Homes Program:

Enhanced Home Comfort

No cost upgrades for income eligible single-family or multi-family units and enhanced rebates for income eligible multi-family common areas.

Enhanced Home Products

Increased rebates or no cost energy efficient products for income eligible single-family residents or multi-family unit tenants and buildings.

No-Cost Energy Assessment and Free Energy Savings Kit

Available for income eligible single-family or multi-family units and buildings, along with customers residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed. These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed.

Weatherization Assistance

Continued support of federal weatherization assistance program available to single family customers, delivered through local community action agencies, like Kansas Housing Resource Center.

5. Business Portfolio

Evergy's proposed DSM business portfolio includes programs that provide customers with increased awareness and understanding of how they use and save energy. The business portfolio also provides incentives for EE improvements. These programs are critical in addressing marketplace barriers and challenges that have otherwise limited energy savings opportunities in the past. Through education, awareness and incentives, the business portfolio can address some of the challenges below:

- Lack of top-of-mind prominence for customers who are often busy managing core elements of their business
- Lack of awareness about energy efficient equipment options and available financing when purchasing decisions are made
- Disinclination to replace equipment prior to failure
- Primary focus on purchase price (or "first costs") rather than lifecycle costs

The business portfolio is comprised of broad scale programs and a public benefit program for Hard-to-Reach business customers, which includes an energy education program. Evergy's business portfolio level savings, budget and cost-effectiveness are provided in Tables 9-11, respectively.

Broad Scale Programs[34]:

Whole Business Efficiency Program promotes strong businesses and economic development by improving operational efficiency and new construction practices with equipment rebates on diverse measures including lighting, HVAC systems and other items.

Business Demand Response Program will help Evergy lower summer peak demand and provide a resource to Evergy during the winter. The program also benefits customers who can be flexible with providing demand reduction in their business operations.

Hard-To-Reach Business Program is targeted to vulnerable or small businesses and neighborhoods, including outdoor agriculture and non-profits specifically. The program includes enhanced rebates and concierge outreach assistance. In order to drive participation in these demographics, Evergy proposes to deliver a deeper level of support, which includes no-cost direct installs, personalized energy assessments, and enhanced incentives and rebates. These offers will be presented in a comprehensive manner to deliver maximum customer value.

[34] As noted earlier in Section 4, Hard-To-Reach Residential Programs are included within the definition of Public Benefit given KEEIA legislation definition. However, for business programs, Evergy includes Hard-To-Reach Business Programs within its definition of Broad Scale programs based on its focus on small business and non-profits.

All three broad scale business programs have been designed to meet cost-effectiveness goals and will provide significant savings for the portfolio, while providing energy savings benefits for all business customer segments. All programs exceed TRC of 1.0 and a RIM of 0.7.[35]

Public Benefit Program:

Business Energy Education Program is designed to drive improved customer energy use behaviors and increased customer awareness around no- or low-cost ways to save energy. Evergy proposes to include both broad and targeted customer education around measures in businesses that impact costs and as a pathway to direct customers to Evergy programs that can improve operational efficiency and comfort.

As defined in the KEEIA statute, cost effectiveness is not required for Public Benefit programs.[36]

Table 8: Total Business Portfolio Savings for KS Central and Metro

Total Business Portfolio Savings for Kansas Central									
Net MWh Savings					Net MW Savings				
PY1	PY2	PY3	PY4	Total	PY1	PY2	PY3	PY4	Total
25,574	36,859	39,540	39,009	15.6	28.0	40.8	58.6	25,574	36,859
Total Business Portfolio Savings for Kansas Metro									
Net MWh Savings					Net MW Savings				
PY1	PY2	PY3	PY4	Total	PY1	PY2	PY3	PY4	Total
9,822	14,051	14,823	14,515	6.7	12.4	18.6	27.3	9,822	14,051

Table 9: Total Business Portfolio Budget ($ 000s) for KS Central and Metro

Budget ($ 000s)	Total Business Portfolio Budget for Kansas Central				
Cost Category	PY1	PY2	PY3	PY4	Total
Incentives	$6,522.7	$9,080.1	$9,957.2	$10,670.2	$36,230.2
Delivery	$2,948.2	$4,153.1	$4,595.8	$4,965.8	$16,662.8
Administration	$382.3	$537.7	$594.8	$642.6	$2,157.4
Evaluation	$492.1	$686.1	$757.4	$817.2	$2,752.7
Total	$10,345.2	$14,456.9	$15,905.2	$17,095.7	$57,803.1

[35] Docket No. 16-KCPE-446-TAR, Application of KCP&L for Approval of its Demand-Side Management Portfolio Pursuant to the Kansas Energy Efficiency Investment Act, page 35.

[36] KEEIA, Section 1.5.c.1.D - Programs targeted to low-income customers or general education campaigns do not need to meet a cost-effectiveness test, so long as the Commission determines that the program or campaign is in the public interest and is supported by a reasonable budget in the context of the overall budget.

Budget ($ 000s)	Total Business Portfolio Budget for Kansas Metro				
Cost Category	**PY1**	**PY2**	**PY3**	**PY4**	**Total**
Incentives	$1,995.6	$2,797.3	$3,102.8	$3,311.6	$11,207.3
Delivery	$918.7	$1,292.9	$1,424.0	$1,540.9	$5,176.4
Administration	$119.0	$167.3	$184.2	$199.3	$669.7
Evaluation	$152.1	$212.5	$233.7	$252.7	$851.0
Total	$3,185.4	$4,470.0	$4,944.8	$5,304.4	$17,904.5

Table 10: Business Portfolio Cost-Effectiveness Ratios for KS Central and Metro

Total Business Portfolio Cost-Effectiveness Ratios for Kansas Central					
	TRC	**UCT**	**RIM**	**SCT**	**PCT**
CE Required Programs	1.9	2.7	2.0	2.3	0.8
Total Portfolio	1.8	2.0	1.6	2.2	1.0
Total Business Portfolio Cost-Effectiveness Ratios for Kansas Metro					
	TRC	**UCT**	**RIM**	**SCT**	**PCT**
CE Required Programs	1.7	3.2	1.4	2.1	1.2
Total Portfolio	1.6	2.3	1.1	2.0	1.4

5.1 Whole Business Efficiency Program

Incentives are a key component to encourage business customers to take the next step in EE. Incentives reduce the upfront capital expense, which is a known barrier for EE investment.

The Whole Business Efficiency program provides incentives for customers who install energy efficient equipment. An objective of this program is to have multiple energy efficient technologies eligible, including measures that improve the performance of existing equipment like controls and tune-ups, while providing various options that accommodate the many different types of business customers.

Measures for this program can be installed in new or existing businesses across a variety of measure types through two paths:

- **Standard -** fixed incentives for specific energy efficient measures with pre-set savings values
- **Custom –** variable incentives for qualifying complex or unique projects that do not fall under Standard. Incentives are determined on a $/kW or $kWh basis.

Evergy proposes four components for participation: Business Comfort, Business Operational, Business Products and New Construction. These components are described below.

Business Comfort

Building comfort measures include insulation and air sealing improvements, door enhancements and other custom measures. The program will also include air conditioner and heating equipment and controls projects, including tune-ups and other behavioral strategies.

Business Operational

Business operational measures include refrigeration, food service equipment, ventilation, laundry or other mechanical upgrades to save on energy costs. This includes a retro-commissioning program, which provides incentives for operations and maintenance measures identified through a retro-Commissioning study.

Business Products

Business products include rebates for LEDs, control equipment and other products through midstream or the custom or standard rebate channel for business customers.

New Construction

New construction measures include incentives for early design assistance and qualifying complex or unique new construction projects. Custom rebates are determined on a $/kW or $/kWh basis for incremental savings above building code.

5.2 Business Energy Education Program

Education is one of the key components for DSM success. Customers need tools, resources and guidance to understand how their businesses use energy and where they can save energy. The Business Energy Education program will provide these resources, focusing on program benefits as well as other avenues to optimize efficiency. Marketing engagement for business customers, as well as education assistance in the form of building operation certification courses, will be essential in engaging business customers.

Education and marketing will also guide customers to other key initiatives within the community to promote better energy management practices. This could include customer assistance in using energy usage data to benchmark facilities, as well as promoting other available resources such as Building Energy Exchange in Kansas City37. Evergy will continue to partner with these community organizations as a way to promote best practices and available resources.

For small businesses, Evergy will offer digital tools, including online tools and outreach that can be customized for a variety of business types and will help drive low to no cost improvements.

Evergy proposes five components of the Business Energy Education Program:

[37] The KC Regional Building Energy Exchange (BE-Ex) is a new resource focused on accelerating advancements in building efficiency in the Kansas and Missouri region to reduce greenhouse gas (GHG) emissions and improve economic opportunities.

Customer Facing Business Marketing

Evergy will deploy an integrated marketing approach for the Business Portfolio, with marketing tailored to industries, equipment and business types that offers relevant products while educating customers on EE and DR. These programs will also be promoted through other channels, including Evergy's Customer Solutions Managers and trade allies.

Building Operator Education

This component will utilize the Building Operator Certification® (BOC), which is the leading training and certification program for building engineers and maintenance personnel. Courses will include both Level I (Building Systems Maintenance) and Level II (Improving Building Operational Performance). These courses help operators find practical, low-cost and no-cost efficiency solutions by working with existing systems. The classes also show building personnel how to create a preventive maintenance program that improves the building environment and prolongs the life of equipment. Finally, these courses lead seamlessly into participating in other Evergy programs, such as DR programs and other EE programs that influence facility managers to take action in energy conservation. BOC was offered to legacy Westar customers in Kansas from 2010 to 2018, graduating 554 operations professionals.

Small Business Behavioral Program

Small businesses typically have limited resources and lack the technical expertise in identifying and implementing energy savings measures. The Small Business Behavioral Program offers digital tools and communication that personalize energy savings recommendations. This will include online self-service education tools that are customizable by business type to educate customers on the highest EE saving opportunities for their business. This component uses targeted outreach to small business customers with higher-than-expected energy use, providing tools, tips and resources to change behavior and realize low to no cost energy savings.

Community Events

Evergy will host in-person events to build trust and relationships within its communities. Evergy's goal is to meet customers where they are in the community to demonstrate our commitment towards valuing individual needs. A concentrated focus will include supporting small business and nonprofit customers. We will utilize these opportunities to educate, provide information and assist with program enrollment.

Rural Community Engagement

Evergy proposes to provide enhanced outreach to geographically hard-to-reach customers through this program to create equity for customers who may not be reached by these programs through a traditional approach.

5.3 Business Demand Response (BDR) Program

If businesses have the ability change their electric load when called upon by the utility, it creates overall grid flexibility and adds value to the grid. The proposed BDR program is designed to provide Evergy an additional tool to manage customer demand such that it provides customers

an option to participate in crucial winter or summer demand events and provides an opportunity for the business to earn financial incentives.

Evergy proposes to offer two components of participation, depending on the customer's facility type and equipment:

Direct or Aggregator:

Evergy will recruit businesses to participate in the program by assessing customer facilities and identifying opportunities for operational changes to participate in DR events. Recruitment may be determined in several ways and may include direct Evergy customer recruitment or third-party aggregation.

Manual or Auto:

This component includes customer enrollment to receive auto DR signals to existing building management systems or energy management systems. Evergy will send notifications to customers to participate during events. Customers who do no not receive auto signals will conduct on-site load reduction activities manually.

5.4 Hard-to-Reach (HTR) Business Program

Small businesses and non-profits often face numerous obstacles in realizing energy savings. These obstacles include lack of resources, lack of expertise in operational improvement and upfront capital. Evergy proposes a focused program with targeted and enhanced incentives to help this customer segment address these challenges. The Hard-to-Reach (HTR) Business Program includes the programs above with enhanced rebate values and additional initiatives designed only for these business customers.

This HTR Program is separated into five components:

- **Enhanced Business Comfort –** increased rebates or no cost upgrades for small businesses and non-profits, above those noted in Section 5.1.
- **Enhanced Business Operational -** increased rebates or no cost upgrades for small businesses and non-profits, above those noted in Section 5.1.
- **Enhanced Business Products –** increased rebates or no-cost products for small businesses and non-profits.
- **Enhanced New Construction -** increased rebates (noted in Section 5.1) or no-cost products for income-eligible single family or multi-family units and buildings.
- **No Cost Energy Assessment and Free Energy Savings Kits –** This component is available for small businesses and nonprofits, and customers who reside in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed. These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed.

6. Pilot Incubator Program

The objective of the Pilot Incubator Program is threefold. It creates a pathway for generating ideas, creates and opportunity for identifying additional programs and/or program component improvements, and tests new concepts for both business and residential customers. This program uses a process to score and evaluate ideas that mirror the needs of Kansas constituents, allowing Evergy to bring innovations and best practices for products, program components and/or programs. The incubator proposed in this filing will focus on the specific needs of Kansas customers, but it can also leverage the work performed in Missouri by Evergy, which includes a list of over 300 concepts already developed and considered.

Figure 15 below illustrates the pilot incubator stages. The pilot incubator has three major stages: identifying concepts, validating ideas and commercializing or integrating the evaluated designs into the portfolio. Failing or succeeding with ideas quickly in a landscape where revision is allowed and expected is less expensive than experimenting at scale. This program allows for managing resources responsibly while creating the ability to transform programs to meet the changing needs of customers and ever evolving technologies.

Identify

Program implementers, Evergy and other community partners can submit ideas into the incubator. Evergy proposes to score and prioritize pilots based on criteria that can most benefit programs and customers. This creates a database to draw on that includes the best practices in the industry and allows for local input that focuses on the needs of Evergy's customers.

Validate

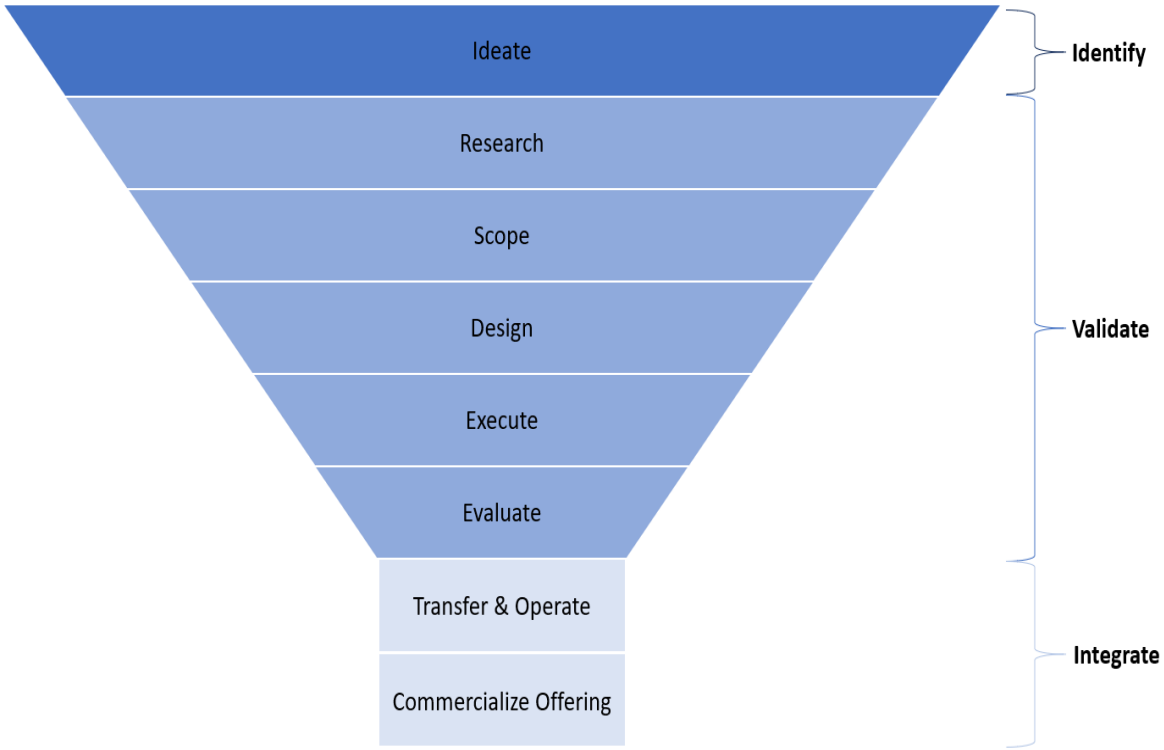
Validation is the largest stage of the program. It includes researching the concept for historical success, evaluating alternative options, reviews viability in the market and then uses this information to scope the test, design the pilot and determine what success will look like. The pilot is presented to stakeholders for feedback, launched, monitored, and enters a cycle of redesign and redeployment if necessary. An idea is honed quickly and can be discarded or moved forward based on performance. The process is documented with reports and reviewed by evaluators. Evergy stores all program data and documents in a database from which it can constantly access and improve.

Evergy proposes to invite interested stakeholders to discuss any new pilots at least 30 days prior to deployment. As shown in Figure 16, this communication will occur after the design step and before the execute step.

Integrate

In the integration phase, business models for the new program or concept are built, new programs are filed for approval and then transferred to an implementation team for the successful integration of improved or new program designs.

Figure 16: Pilot incubator Stages



7. Program Evaluation, Measurement and Verification (EM&V) Plan

Evaluation, Measurement and Verification (EM&V) of DSM programs is an essential component to the deployment of the programs. As stated in the 2012 State and Local Energy Efficiency Action Network (SEE Action) guide on EM&V, "Documenting the benefits of efficiency using credible and transparent methods is a key component of successfully implementing and expanding the role of efficiency in providing secure, stable, reliable, clean and reasonably priced energy."[38]

Evergy proposes an EM&V plan that will meet the primary objectives outlined in the SEE Action guide:

- Document the benefits/impacts of a program and determine whether the program (or portfolio of programs) met its goals.
- Help understand why program-induced effects occurred and identify ways to improve current and future programs.
- Support energy demand forecasting and resource planning by understanding the historical and future effects of energy efficiency as compared to other energy supply and demand side resources.

Considering these key objectives and the importance put on the topic by the Commission in prior proceedings, Evergy proposes a detailed EM&V framework to help drive the outcomes important to the Commission, stakeholders and customers. The proposed framework is a detailed document that accounts for industry best practices for important components of the evaluation of programs. While the framework contains proposals for many facets of evaluation, it also allows for stakeholder guidance to achieve insights into specific topics accordingly.

Evergy proposes to engage a third-party vendor to conduct EM&V of the portfolio of programs. EM&V should be an independent assessment of program and portfolio impacts and processes, while serving as an important continuous improvement and quality assurance tool for program delivery. EM&V results will also directly integrate into the throughput disincentive adjustment and earnings opportunity calculations.

As described and outlined in the EM&V Framework, Evergy proposes that the third-party vendor perform the following activities.

Evaluation Planning

Evaluation planning includes prioritizing program-level activities based on factors such as contribution to portfolio and sector savings, contribution to portfolio and sector spending, uncertainty, and program maturity.

[38] SEE Action Guide for States: Evaluation, Measurement, and Verification Frameworks-Guidance for Energy Efficiency Portfolios Funded by Utility Customers (https://www.energy.gov/sites/default/files/2021-07/EMV-Framework_Jan2018.pdf)

Verify Gross Impacts

Verifying gross impacts includes confirming the savings achieved from measures installed and behavioral actions from program activities. Using the Technical Reference Manual (TRM)[39] as a basis, EM&V will verify gross impacts through rigorous and methodologically sound activities such as:

- Engineering analysis based on deemed and partially deemed calculations within the TRM
- Statistical analysis using billing and/or AMI data
- On-site verification and/or metering
- Simulation modeling
- Participant surveys
- Desk reviews

Estimate Net-to-Gross (NTG)

Estimation of NTG includes providing results of the proportion of gross savings attributable to program interventions. This accounts for free-riders[40] () and spillover[41] (). The EM&V vendor will quantify NTG using approaches such as:

- Participant surveys
- Trade ally surveys
- Non-participant surveys
- Market data analysis
- Statistical modeling, such as elasticity analysis

Review Program Processes

To maximize impact, effectiveness, and customer satisfaction as well as provide insights into opportunities for improvements, the review of program processes will include methods such as:

- Program staff and stakeholder interviews
- Participant interviews and surveys
- Trade ally interviews and surveys
- Secondary data analysis and program benchmarking
- In-depth qualitative research including focus groups, online interviews and intercept interviews and surveys
- Customer journey mapping
- Case study development

Calculate Cost-Effectiveness

[39] Appendix C.
[40] Free riders are defined as customers who would have acted on an EE measure in absence of the utility program.
[41] Spillover is defined as EE actions a customer took without receiving a rebate for so doing as a result of what they learned through Evergy's DSM programs, marketing and education efforts.

Calculation of cost-effectiveness will be performed at the program and portfolio levels, focusing on the TRC test but also running analyses to calculate the other four cost-effectiveness tests: SCT, UCT, PCT AND RIM described in Section 1.

Modify TRM Values

TRM modifications will be performed after each program year and will be on a prospective basis. Subsequent program years will refer to the revised values. The inputs to be assessed include baseline equipment efficiency, usage assumptions and incremental costs.

EM&V Reporting

The EM&V third-party vendor will provide progress reports against goals, program activities, and EM&V findings through interim reports and annual reporting. Evaluations will leverage industry standard best practice documents in determining methodological approaches, such as the Uniform Methods Project (UMP), International Performance Measurement and Verification Protocol (IPMVP) and Standard Practice Manual for cost-effectiveness. Sampling for quantitative data collection efforts will strive to achieve a minimum 90% ± 10% level of precision at the program-level.

Evergy will collaborate with the EM&V third-party vendor to deliver draft EM&V reports 120 days after the last day of the program year. The timeline will include opportunity for up to two review periods and presentations to stakeholders. Table X below summarizes an example of a reporting timeframe.

Table 11: Annual EM&V Timeline (KEEIA Cycle 1 Program Year 1 Example)

# Of Days	Projected Date	Description
	12/31/2023	Program Year Ends
120	04/30/2024	EM&V Draft Report Issued
60	06/28/2024	KCC Staff and Stakeholder comments due
	TBD	Stakeholder meeting to discuss the comments and recommendations for report changes
30	07/30/2024	Final Draft EM&V Report due
20	08/20/2024	Designated stakeholder to provide written comments of any concerns on the final draft EM&V Report to Evergy, KCC Staff and all other stakeholders.
15	09/04/2024	Final EM&V Report due

8. Financial Recovery Approach

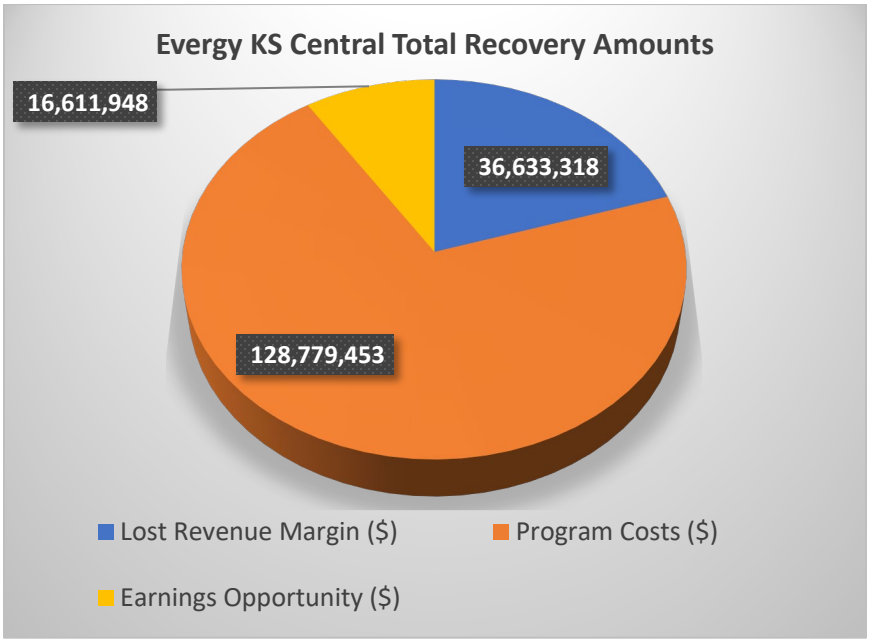
Utility Incentive Alignment

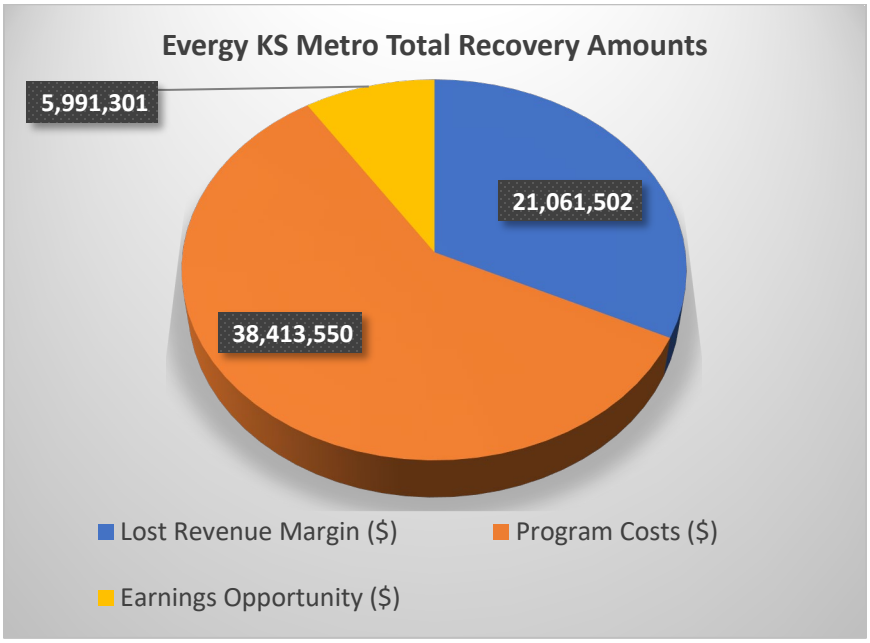
KEEIA establishes a state policy allowing for recovery of all reasonable and prudent costs of delivering cost-effective DSM programs. In support of that goal, KEEIA requires the Commission to:

- Provide timely cost recovery for utilities
- Ensure that utility financial incentives are aligned with helping customers use energy more efficiently and in a manner that sustains or enhances utility customers' incentives to use energy more efficiently
- Provide timely earnings opportunities associated with cost-effective, measurable, and verifiable efficiency savings

To achieve the KEEIA goals, Evergy proposes an Energy Efficiency Rider (EER) structure that is consistent with KEEIA statute. The EER will provide for recovery of program costs, throughput disincentive and earnings opportunity. Figure 16 shows the recovery amounts as proposed in this filing for 2023-2026.

Figure 17: Total Recovery Amounts





Proposed Mechanism

Recovery of program costs. Recovery of the program costs includes recovery of the direct costs associated with program administration (including internal Evergy labor and EM&V), implementation, education and marketing, and incentives to program participants. These program costs are necessary to obtain DSM benefits.

Proposed program cost budgets include all costs that will be incurred for implementation of Evergy's portfolio over the 48-month period following the effective date of the tariff sheets, including subsequent EM&V costs incurred in the year following the 48-month period of the KEEIA 2023 – 2026 DSM Portfolio.

Throughput disincentive. Timely recovery is also required for the impact of reduced electricity sales. Recovery of the reduced sales does not provide additional earnings to Evergy, but rather keeps Evergy whole consistent with its existing regulatory framework and as required by KEEIA. Without proper alignment of Evergy's financial incentives, the success of EE programs will result in negative impacts to Evergy's financial performance as both earnings and cash flow will be affected. Providing recovery of the lost sales associated with EE reverses the negative financial effects by Evergy requesting a throughput disincentive (TD) intended to recover any lost margin revenues resulting from the installation of EE measures and its effect on billed kWh sales in base rates through Evergy's next general rate case.

To recognize TD recovery resulting from implementation of the KEEIA 2023-2026 DSM Portfolio, the amount of such recovery must be objectively determinable at the time of recognition. To meet this requirement, Evergy proposes the use of a TD model to calculate the effect of deemed kWh savings, net of assumed NTG factors in the Company's TRM, resulting from energy efficiency measures installed on Evergy's kWh sales and revenues. To ensure that this interest in recognizing and recovering the TD in the period in which Evergy's revenues are

impacted are balanced against KEEIA's requirement that DSM programs are subject to independent evaluation. Evergy proposes that adjustments in deemed kWh/kW savings and NTG factors used in calculating the TD be updated on a prospective basis in the program year following the completion of the final EM&V. For example, the EM&V results from the first program year, completed during the second program year, will be used in the third program year.

Earnings Opportunity. The effect on shareholder value compared to supply-side alternatives recognizes the opportunity cost to the utility of substituting DSM for supply-side alternatives. Demand-side resources cannot be valued equally to supply-side resources without providing an equivalent opportunity to enhance shareholder value. Providing an EO moves demand-side resources beyond a breakeven proposition and allows fair competition with supply-side alternatives; thus, allowing the utility to value the two options equally.

Evergy's proposal includes an EO to align key performance indicators and a financial return for the investment. The proposed performance metrics support the stakeholder strong interest in providing significant and effective energy education as well investment in hard-to-reach segments. Evergy's proposed EO is provided in Appendix E. The targets for the financial return associated with the education and hard-to-reach programs are calculated based on a percentage of total spend (5 percent). Additionally, achieving measurable and verifiable energy and demand savings are the ultimate measure of success of the proposed DSM programs. Three metrics are proposed to support that outcome. The metrics include:

- Energy savings (MWh)
- Demand savings (MW) from energy efficiency programs
- Demand savings (MW) from demand response programs

The targets for the financial value for these three components are based on a percentage (18 percent) of the net benefits created from the energy and demand savings of the specific components. For purposes of the EO, the kWh and kW savings measurements will be determined through the EM&V performed annually based on measures installed in that year annualized unless otherwise described in the EO matrix shown in Appendix F.

The EO is proposed to be recovered annually for each program year following final determination based on the EM&V 12-month recovery period following the final EM&V report.

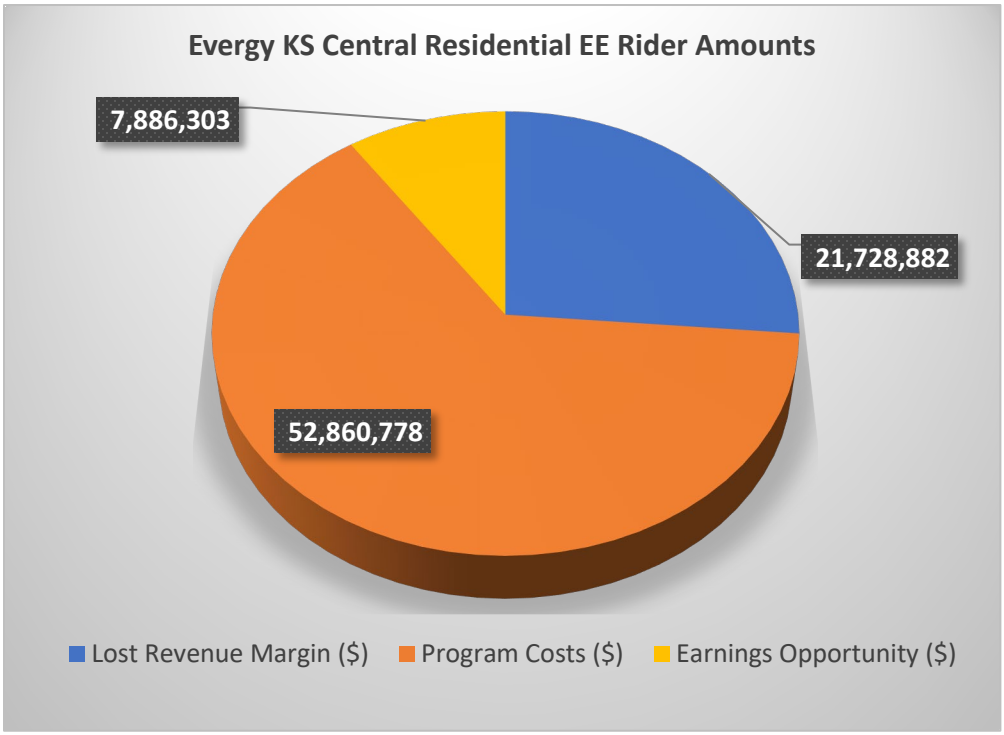
Energy Efficiency Rider (EER)

Currently, Evergy's Kansas jurisdictions (Central and Metro) each have an EER that retroactively recovers program costs for a limited number of KCC approved DSM programs. Program costs are recovered after the end of each program year (calendar year for Kansas Metro and July-June fiscal year for Kansas Central). Such costs are recovered over a 12-month period after KCC approval (July to June for Kansas Metro and November to October for Kansas Central). The proposed recovery mechanism in this case modifies each of the jurisdictional riders to a common calendar annual program year and recovery period beginning in July of the following year.

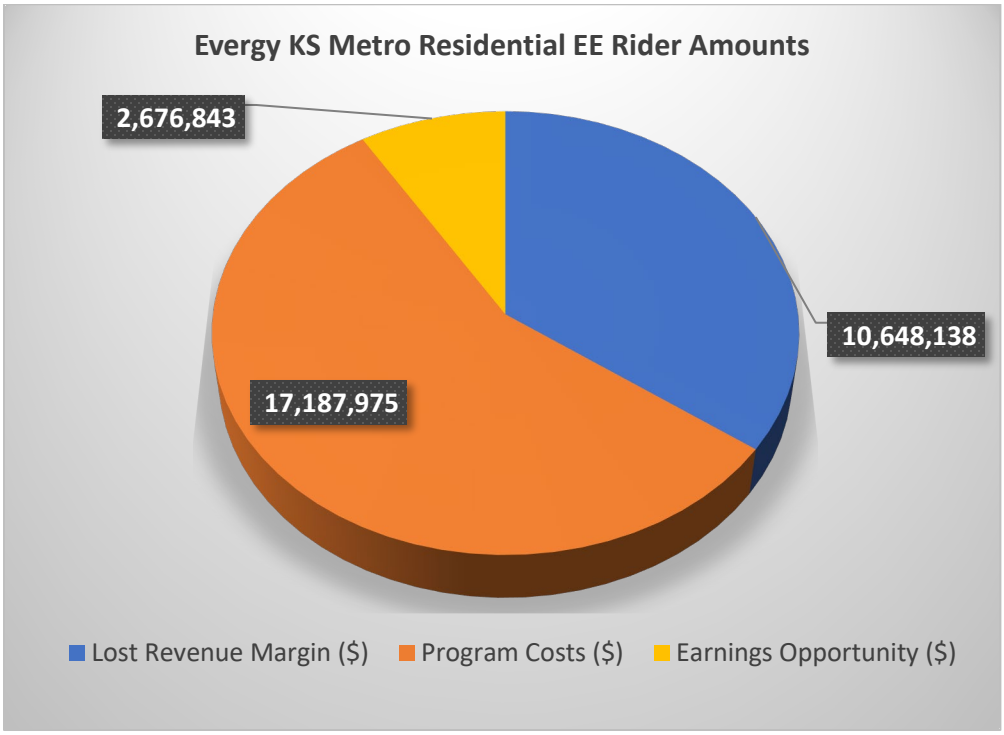
Evergy is requesting approval of the EER such that:

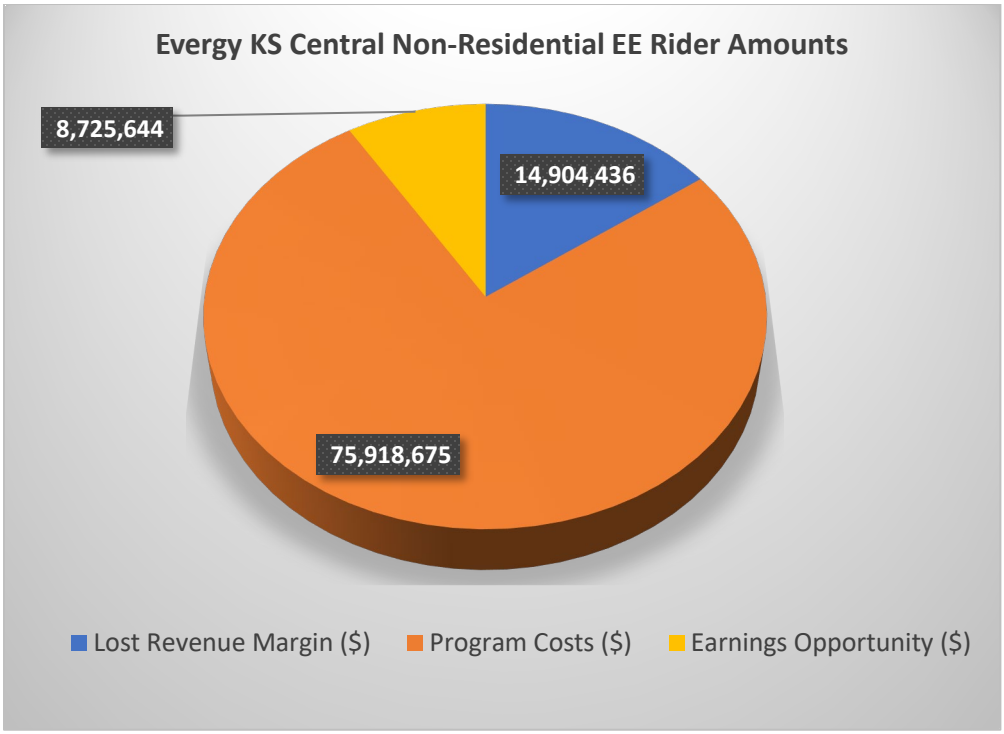
- The EER include recovery of program costs and TD starting July 2024 given approval by the Commission and continue until all program costs and TD are recovered.
- The EER collect actual program costs that include a carrying cost at the Companies' weighted average cost of capital (WACC) and calculated TD on deemed kWh savings net of NTG factors.
- The EER be updated annually with a reconciliation of the prior periods under- or over-recovery of program costs and TD with carrying costs on any under- or over-recovery.
- The net kWh for the TD within the EER is determined by multiplying the deemed kWh savings and NTG factor for each measure as listed in Evergy's TRM for standard measures or calculated net kWh savings for custom measures for the respective month times the incremental rate for each respective customer class[42].
- The EER will provide for separate rates for residential and business customers. These costs are shown in Figure 18. Figure 19 and Figure 20 show the projected $/kWh EER impact for residential and business customers, respectively.

Figure 18: EE Rider Amounts for Residential and Business Sectors



[42] Annual kWh savings per standard measures and NTG factors will be updated prospectively in Evergy's TRM in the program year following issuance of each EM&V report


Evergy KS Metro Residential EE Rider Amounts
2,676,843
10,648,138
17,187,975
Lost Revenue Margin ($)
Program Costs ($)
Earnings Opportunity ($)


Evergy KS Central Non-Residential EE Rider Amounts
8,725,644
14,904,436
75,918,675
Lost Revenue Margin ($)
Program Costs ($)
Earnings Opportunity ($)

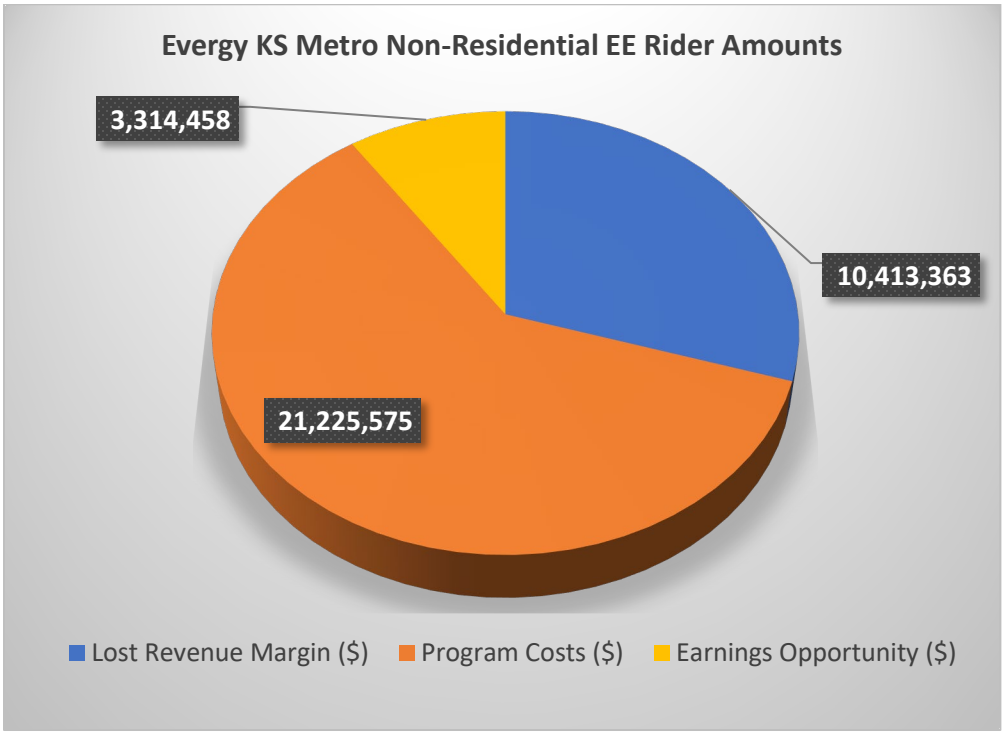
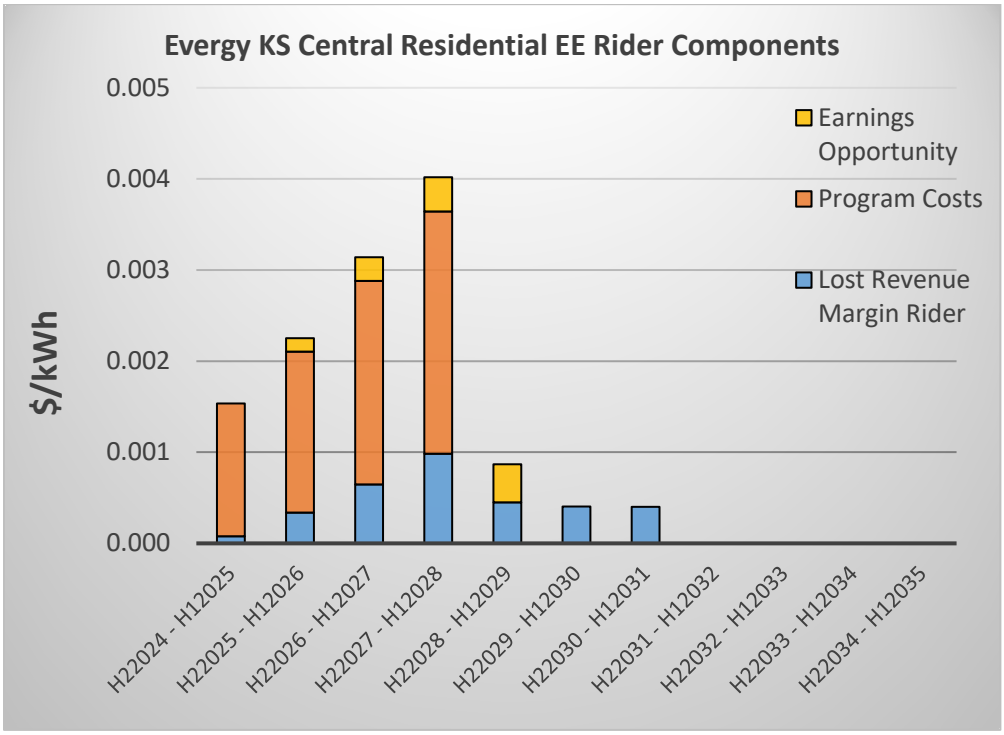

Evergy KS Metro Non-Residential EE Rider Amounts
3,314,458
10,413,363
21,225,575
Lost Revenue Margin ($)
Program Costs ($)
Earnings Opportunity ($)

Figure 19: Residential EER $/kWh Impact[43]



[43] The "H" shown in the X-Axis refers to "half" since the EER updates are proposed in July.

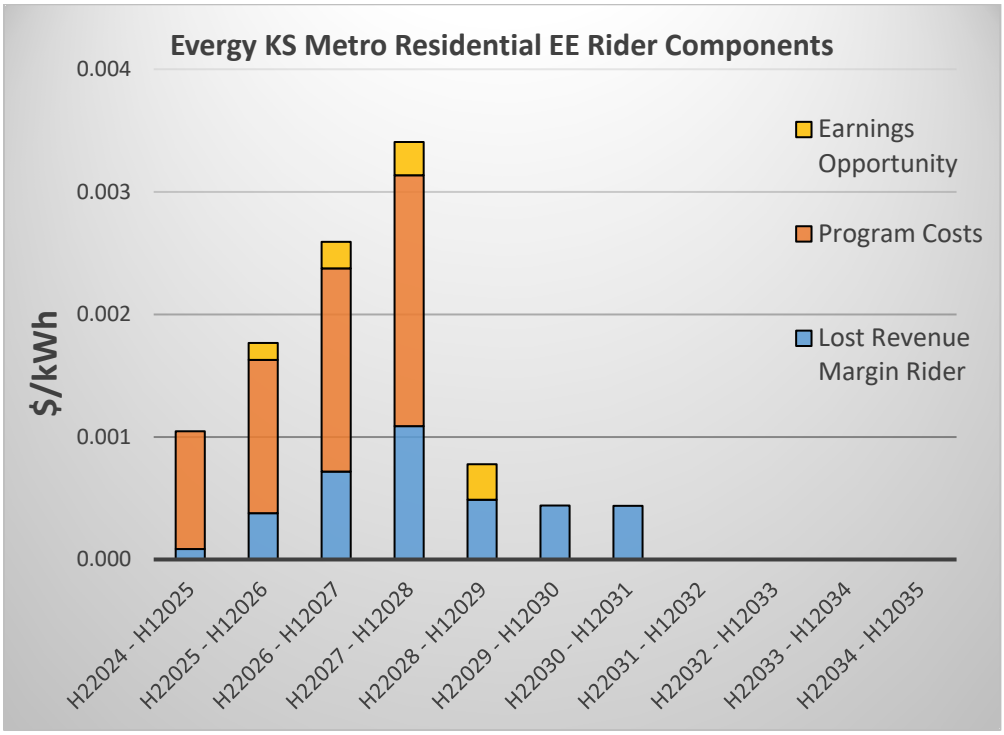
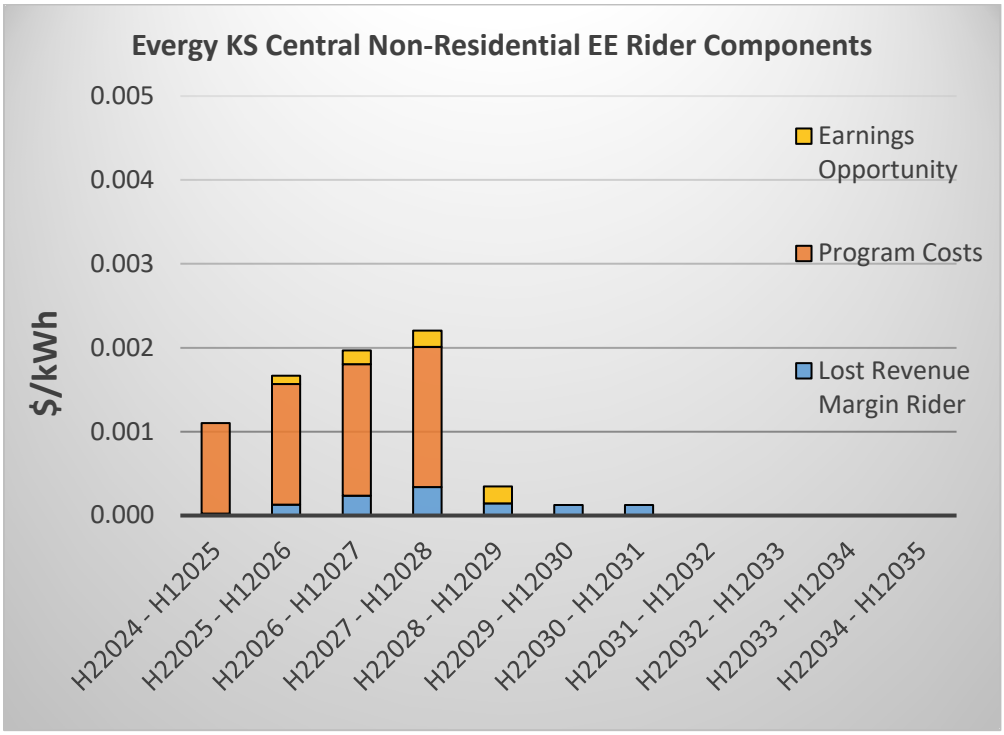
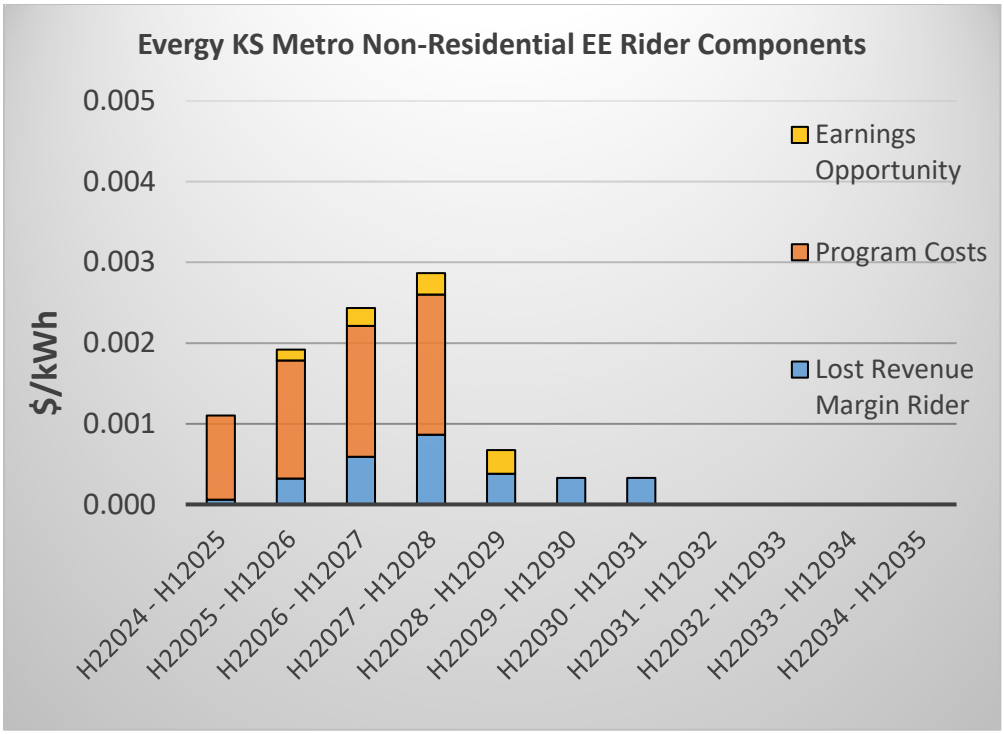


Figure 20: Business EER $/kWh Impact[44]



[44] Ibid.


Evergy KS Metro Non-Residential EE Rider Components
$/kWh
0.005
0.004
0.003
0.002
0.001
0.000
Earnings Opportunity
Program Costs
Lost Revenue Margin Rider
H22024 - H12025
H22025 - H12026
H22026 - H12027
H22027 - H12028
H22028 - H12029
H22029 - H12030
H22030 - H12031
H22031 - H12032
H22032 - H12033
H22033 - H12034
H22034 - H12035

9. Implementation and Marketing

Integrated Marketing Communications Approach

The marketing and communications strategy will focus on four main steps to nurture participation in energy efficiency and demand response programs: awareness, education, conversion and engagement. These steps will be executed through careful messaging and effective, proven tactics. Integrated marketing communications deliver the highest levels of awareness and ultimately program participation. Because customers need several exposures to a message before acting, the surround sound approach of delivering multiple, carefully orchestrated messages in multiple channels over sustained periods of time works.

Evergy's marketing team will strive to meet customers with an offer most appropriate in their customer lifecycle. This approach works in tandem with educational and straightforward messaging to resonate with the customer about the benefits of participation. Evergy will optimize its technology and resources to create a customer friendly experience that nurtures customers along the path of program participation, and most importantly through their lifecycle as an Evergy customer. Simply put, Evergy's approach is to offer customers timely and relevant information that aligns with their lifestyle, energy/product usage and interests.

Marketing will continue to be executed through automated tools and processes that reflect both proactive and reactive modern marketing capabilities, consistently engaging with customers as Evergy nurtures them to participation. A customer may begin their interaction with an Evergy product through one channel, but Evergy will continue to speak to them even after they navigate elsewhere, as well as ensure appropriate tactics are in place and can be triggered based on their actions. Evergy's marketing will always be 'on' so we are staying top of mind and delivering the right messages to the right people at critical points of their decision-making process.

Educating Customers on Energy Use and Efficiency

The priority for marketing KEEIA is educating customers on energy usage and energy efficiency. Before a customer will be comfortable with program participation, Evergy will communicate the 'why' of energy efficiency. As their utility, Evergy is the trusted source of information around energy usage and management. The utility plays a key role in educating in a straightforward and uncomplicated way that will encourage a customer to act on finding ways to manage or reduce their energy usage. Evergy will pay special attention to helping customers understand their energy usage and the importance of energy efficiency through personalized reports, messages and educational materials.

Launching KEEIA into our Communities

Evergy will use an integrated, multi-channel marketing campaign approach that is optimized around the marketing funnel, which outlines the path customers take from awareness to education to conversion and, finally, to continued engagement. Evergy guides customers through this process by matching marketing campaign elements and tactics to customers' informational needs at various points within the funnel. Customers receive further support through the engagement portion when programs are cross-promoted with other related programs or information in which programs not yet participated.

Marketing Planning

Once final program details have been approved by stakeholders and Commission, the Evergy marketing team will develop a marketing campaign plan considering the approved programs, individual requirements, customer segments identified and desired stipulations, outcomes and goals. One of the key drivers in developing a marketing strategy will be the final approved program and stipulation information, which makes waiting on approval important before building out marketing strategies.

This planning will have multiple phases developed over 3-5 months once programs are approved:

- Customer and Program Research and Audience Development
- Marketing Strategy, Outreach/Advertising Tactics, Timeline and Budget
- Program Naming and Messaging
- Creative Development
- Testing
- Deployment and Measurement

Marketing Strategy

Evergy will develop a two-phase marketing strategy to kick-off KEEIA, allowing Evergy to launch the new programs and energy efficiency education into our Kansas territory successfully.

Phase 1: Soft Launch
A soft launch will kick off our communications, allowing Evergy to test messaging and creative, understand questions and create advocates.

Phase 2: Full Launch
Awareness/Education Campaigns: Helps make sure all customers know Evergy offers products and provide energy efficiency and usage education.

Enrollment Campaign: The awareness campaign will also give Evergy the ability to capture customers with a true interest, such as through an online sign-up form to be notified when the programs are fully available. This will allow Evergy to target the most interested customers not only immediately upon program availability, but also through the most cost-effective channel for conversion.

During and after each step and phase, Evergy will continue to analyze performance data and analytics to understand how messaging and marketing tactics are preforming. Evergy will continue to make adjustments to the strategy throughout the program time frame.

Targeted Marketing Communications

A fundamental part of all marketing is to get the right message to the right customer via data, targeting, modeling and customer-initiated actions. There is no one size fits all approach, as the Company consistently works to identify the target market opportunity on an ongoing basis, as A/B ads are tested and insight is gained into both who is converting and who is simply engaging. The constant monitoring of this activity, combined with refinement and growth of our data architecture, allows Evergy to change and tweak messaging and imagery to align efforts with what the data is telling.

A central component to identifying audiences will be monthly and quarterly evaluation and adjustment of marketing, based on how an audience is responding to ads. This approach will

generate more quality program 'leads' that grow insight into a customer's lifecycle and ultimately, their participation in an energy efficiency program.

Evergy proposes to include targeted marketing communications in the mix of strategies that make up the larger integrated marketing communications approach. While mass marketing casts a wide net, targeted marketing is like spearfishing. To capture individual customers and push them through the marketing funnel, three elements are needed:

- A well-defined target group of customers whose needs match an offering
- Messaging that helps customers understand how they benefit from the offering
- Distribution at relevant times for the customer and integration with other marketing

Messaging Development and Research

Over the years, Evergy has learned how residential and business customers understand, receive and use EE programs. In preparation for launching KEEIA, Evergy will use primary and secondary research to dig deeper and more fully analyze how proposed and continuing programs are perceived and used, and further explore customers' decision-making process and the benefits they find most motivating. These insights support the continued creation of tailored messaging with a focus on educating customers to encourage enrollment. Messaging will emphasize and promote the 'whole home' or 'whole business' benefits of all of the programs, tools and resources available to make their premise more energy efficient.

- Overarching key messages for residential programs may include:
- Energy efficiency reduces monthly energy bills due to lower operating costs.
- Programs help lower energy bills through rebates and incentives for installing highly efficient equipment.
- Energy efficiency helps reduce environmental impacts.

Overarching key messages for business programs may include:

- Energy savings contribute directly to increased profits.
- Partnering with the property manager (when applicable) to employ energy savings can lower energy costs, improve ambiance and increase property value.
- Because energy costs are a sizable portion of an operating budget, investing in energy efficiency is a smart decision with major impact.
- Rebates help reduce upfront costs, shorten payback periods and provide ongoing savings.
- Energy-efficient equipment and systems increase reliability while decreasing maintenance costs.
- Saving energy helps reduce environment impacts and meet sustainability goals.

Marketing Creative

In keeping consistent with the Company's direction of creating relatable and easy-to-understand messaging, Evergy's creative will follow that same path. Imagery will be consistent with Evergy branding, with efforts made to feature local people in local situations (less stock imagery) so the marketing retains an authentic look. Evergy anticipates creative to also serve as a platform that can communicate to customers the direct impact of their efforts, providing examples of energy savings, paybacks, lifetime savings and other personal rewards.

Evergy and implementer marketing staff will work together to develop and finalize materials to support the promotion and education of the programs, as well as needed materials for trade ally and customer participation in those programs.

The collateral needed to implement the programs will span multiple marketing channels such as printed materials and digital/online assets. Items to be developed include (but are not limited to) informational and sales brochures, program applications for both trade allies and customers, rebate forms, incentive charts, digital newsletters, emails, promotional items, information leave-behind flyers, postcards, door hangers and more.

Customer Identification

Sophisticated customer targeting will be used with a combination of data currently in the Company's customer database, demographic information and building type data in order to streamline the process of acquiring customers that are appropriate to each program. This allows the marketing and outreach teams to cost-effectively ramp up more quickly and focus on those most likely to participate, or most likely to benefit the most from programs as in the case of hard-to-reach program designs. Stakeholders will also be engaged to ensure that the right format is being used to reach these individuals, for example, working with community organizers and churches who are trusted advisors to reach communities, individuals, and businesses at need of assistance.

Trade Ally Recruitment and Outreach

The implementers will develop a working plan geared towards successfully recruiting trade allies to participate in programs, as well as tactics focused on maintaining ongoing communications. Some trade allies who are currently in the Missouri program already provide services in Kansas, and conversely there are Kansas-based contractors who work on the Missouri programs. Teams will leverage these existing connections, and work with local HVAC and building performance stakeholder groups to ensure that the widest number of businesses who are eligible are offered the opportunity to participate in programs. Evergy has also learned much about how to integrate DBE Trade Allies into the network from the work in Missouri[45] and will use specific tactics to target DBE organizations for discussions about how to be involved and successful and delivering energy efficiency solutions for our mutual customers.

Building and maintaining relationships with trade allies is key to the programs' success and meeting specific program goals. The outreach strategy developed for the trade allies will include tactics such as monthly newsletters and other emails, surveys, and one-on-one communication like telephone calls, in-person visits and personal email. Implementers will utilize a CRM database to ensure current contact information and pertinent information for participating trade allies is maintained.

Additionally, the outreach strategy will compromise of tactics to maintain the active trade allies' participation in the programs. Those tactics will include development of marketing program materials for trade allies to use to sell to their customers, co-delivered advertising initiatives, and

[45] In 2019, Evergy Missouri ran a 10-week concentrated effort to identify, interview, recruit and provide tools and training for DBE trade allies to support Missouri energy efficiency programs with multiple documented lessons learned.

ongoing training through self-paced guides and hosted webinars. Outreach teams are also a key quality control for program delivery, as they work directly with allies to ensure customer service levels are maintained and that data is collected accurately.

Leverage Existing Education and Marketing Channels

It will be important to identify and leverage existing marketing to understand successes and obstacles within the Kansas State University's Engineering Extension Office to incorporate education channels to be most effective with marketing and expand reach as wide as possible, with well-planned EE series efforts. With Evergy's focus historically on residential and business customers, the Company has an opportunity to learn from the Kansas Energy Program on ways to further that outreach and engage educators and even students on energy efficiency. To leverage the work already underway, we will:

1. Conduct meetings with the Extension Office on current and past efforts
2. Look into upcoming opportunities and ideas on how to partner together
3. Understand how Evergy can help support the department goals through KEEIA
4. Identify case study or video series opportunities for energy efficiency education efforts

In addition to the Kansas Energy Program, Evergy will engage additional stakeholders to identify opportunities to best build on success and expand channels.

Program Startup and Procurement

Evergy has offered DSM programs to its customers under the MEEIA framework for nearly 10 years, therefore a benefit that can be shared with Kansas is that a program implementation structure is already well established. The structure is successful, highly functional and EM&Vs have concluded high customer satisfaction and cost-effective savings. The proposed portfolio of programs will be delivered by both internal Evergy staff and implementers. The Evergy Products and Services team has an experienced program management staff who will leverage existing procurement strategies to meet the program designs filed herein and collaborate with qualified implementation teams to provide support for such elements as program infrastructure development, staffing, materials development, outreach and/or required program services. Evergy's internal marketing team will work closely with implementers on integrated education and marketing strategy.

Implementer Selection and Management

Upon approval, Evergy will develop a startup calendar with key milestones, Evergy anticipates three months for procurement and contract negotiations to determine implementer partners. Evergy will evaluate current implementers and how it may leverage new implementers for approved programs.

In parallel with this effort, Evergy will begin building the infrastructure needed to offer approved programs. Evergy anticipates public facing engagement will also have a parallel roll-out to prioritize education programs. Startup schedules with key milestones will be developed and weekly meetings will be held to ensure progress on key items, such as operations manuals, IT and staffing infrastructure, along with other key elements prior to program launch.

Tracking Progress and Deliverables

Each program will be assigned supervision from Evergy's Energy Solutions team to ensure that program requirements, quality assurance, budgets and participation goals are being met and on track for delivery. Implementers will be required to deliver forecasted program schedules, budgets and program performance projections in advance of the program startup. Teams will report quantitative results no less than monthly to the Evergy's management team through secure electronic data transfer. Implementers will manage day to day operations, but key program decisions will be raised to the Evergy manager to ensure that all filed requirements are met. Customer service metrics and other key performance indicators will be developed between Evergy and the implementation teams to ensure quality of service for program consumers. Post participation surveys will be implemented where possible, to allow constant improvement and monitoring of implementor and trade ally program delivery.

Reporting and Stakeholder Feedback

Evergy believes in a process of constant feedback and improvement. It is expected that on a quarterly basis, Evergy will hold stakeholder updates on program process, including program launch schedule, annual forecasted performance and current program results. Stakeholders will be invited to attend these meetings and provide ideas and or feedback to enable program managers to adjust to conditions as they are identified. The feedback from customer engagement groups and other methods will be used to improve programs as they evolve. The incubator will also be leveraged as a cost-effective method to test new ideas, technologies or strategies that could improve program performance.

Appendix A. Detailed Program Descriptions

Appendix A provides the detail on key elements of each program in the portfolio.

Residential Programs

Whole Home Efficiency Program	
Program Description	Program designed to provide holistic financial incentives to residential customers, including single family and multi-family, to increase the incorporation of energy efficiency. The program consists of 3 components. Component 1: Home Comfort: Heating & Cooling – Customers that install efficient heating and cooling equipment by one of the programs authorized trade allies are eligible to receive rebates. Note: eligible efficient heating equipment must be "like for like" technology to existing technology. Insulation and Air Sealing – Customers that have completed a comprehensive energy audit by a Program authorized energy auditor are eligible to receive rebates with potential DIY installation incentives for insulation. On-bill Financing: Offer customers an on-bill financing solution for eligible measures. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program. Component 2: Home Products: Energy Efficient Products - Customers are eligible to receive incentives on energy efficiency products for the home through partner retailers on through an online marketplace. Appliance Recycling - Customers will have the opportunity to recycle old inefficient equipment such as refrigerators, freezers, and other small appliances that are high energy users. Shade Trees - Evergy will operate tree distributions free of charge during the appropriate season. School Education Kits - Evergy's teams will coordinate with local schools to provide interactive, educational program materials focused on energy efficiency and sustainability. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program. Component 3: No Cost Assessment & Discounted Energy Savings Kits: Free in person or virtual energy assessments with discounted energy efficient measures provided to residential single family and multi-family customers. This component also includes a personalized report for next best energy efficient actions and education of available resources and incentives.

Whole Home Efficiency Program

Target Market

All residential customers

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
9,742	15,445	18,691	20,008	3.6	5.8	7.8	8.3

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
4,238	6,662	7,801	8,339	1.4	2.2	2.8	3.0

Program Framework/Strategy

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential

Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$799.2	$1,288.6	$1,725.2	$1,831.5
Delivery	$337.5	$548.3	$674.4	$741.1
Administration	$43.5	$70.7	$87.0	$95.6
Evaluation	$54.4	$88.4	$108.8	$119.5

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$342.4	$543.1	$714.6	$760.6
Delivery	$142.8	$231.0	$275.7	$302.4
Administration	$18.4	$29.8	$35.6	$39.0
Evaluation	$23.0	$37.3	$44.5	$48.8

Whole Home Efficiency Program

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	**PY2**	**PY3**	**PY4**
901,696	1,410,421	1,526,261	1,636,128

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
4.2	5.6	1.1	5.2	4.5

Kansas Metro

TRC	UCT	RIM	SCT	PCT
3.5	4.7	0.7	4.4	5.8

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Home Energy Education Program

Program Description	The Program will include online self-education tools, customer marketing, outreach communications, and in person events focused on community collaboration in areas where energy education is needed most. The program consists of 6 components. Component 1: Marketing for Residential Education – Deployment of a consistent and holistic communication plan to help customers understand how customers can participate in Evergy's programs. Component 2: Digital Tools (Online Education and Outreach) – Digital tools and communication of personalized energy savings recommendations. To include online self-service energy assessments designed to educate on the best efficiency improvement opportunities for the home. Component 3: Community Events – Evergy hosted in-person or virtually events with a concentrated focus to supporting customers who may have limited access to the internet. At these events we will educate, provide information, offer energy efficient products, and assist with program enrollment. Component 4: Rural Community Engagement – Enhanced customer outreach efforts aimed towards geographically hard to reach customers. Component 5: KS Low Income Leadership in Essential Services (LILIES) – Evergy will collaborate with various partners to assist in providing services to Income Eligible customers through the creation and evolution of a stronger network of support (focused on energy efficiency, home health and structural integrity). Component 6: Home Energy Education Report – Provides customers with energy reports explaining how their home is using energy and recommendations for improvement. The reports will be delivered in email and/or in paper format. Some module examples are: 1) similar home comparison 2) energy comparisons over time 3) energy efficiency tips and 4) utility program promotions An Income-Eligible version of the report will exist to help customers in need financially. Examples of modules for this report will include: 1) promotion of free direct installation of energy efficiency measures and energy assessments 2) low to no cost energy savings tips 3) utility billing assistance programs, and 4) promotion of community assistance programs

Home Energy Education Program

Target Market

All residential customers

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
1,363	3,438	5,551	7,003	0.2	0.6	1.0	1.2

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
627	1,576	2,536	3,189	0.1	0.3	0.4	0.6

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential
Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$626.7	$811.5	$1,022.1	$1,242.3
Delivery	$64.2	$63.7	$63.4	$63.3
Administration	$9.5	$9.4	$9.4	$9.3
Evaluation	$21.0	$20.9	$20.8	$20.8

Home Energy Education Program

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$250.2	$332.5	$425.8	$519.4
Delivery	$25.6	$26.1	$26.4	$26.5
Administration	$3.8	$3.9	$3.9	$3.9
Evaluation	$8.4	$8.6	$8.7	$8.7

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	**PY2**	**PY3**	**PY4**
13,561	34,179	55,133	69,479

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
n/a	0.2	0.1	n/a	n/a

.Kansas Metro

TRC	UCT	RIM	SCT	PCT
n/a	0.2	0.1	n/a	n/a

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Home Demand Response Program

Program Description

The Program is designed to reduce load during peak periods through two components:

Component 1: Smart Thermostats – provide thermostats and/or rebates for thermostats that are capable to receive deploying demand response calls for a specified period of time. Evergy may elect to deploy various types of demand response technologies including, but not limited to:

1: cycling the compressor unit(s)
2: deploying stand-alone pre-cooling strategies
3: deploying a combination of pre-cooling and cycling strategies
4: deploying pre-cooling strategies

Component 2: Water Heater DLC - provide customers with a rebate to obtain water heater controllers that will optimize water heating usage and participation in DR events. This is similar to how smart thermostats operate for HVAC systems and will be called upon for curtailment for a specified period of time to turn off or cycle the water heater equipment.

Target Market

All residential customers

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
589	1,243	2,293	3,936	31.0	33.2	44.8	61.6

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
227	478	879	1,505	11.9	12.8	17.2	23.6

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Home Demand Response Program

Estimated Program Budget

Estimated Annual Budget – Confidential

Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$1,677.7	$2,099.9	$3,558.8	$5,820.3
Delivery	$280.2	$289.0	$341.5	$442.7
Administration	$36.2	$37.3	$44.1	$57.1
Evaluation	$45.2	$46.6	$55.1	$71.4

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$645.3	$805.3	$1,360.6	$2,218.5
Delivery	$116.2	$113.1	$133.5	$172.6
Administration	$15.0	$14.6	$17.2	$22.3
Evaluation	$18.7	$18.2	$21.5	$27.8

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	PY2	PY3	PY4
53,389	45,087	50,570	56,525

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
8.4	1.0	0.9	8.4	n/a

Kansas Metro

TRC	UCT	RIM	SCT	PCT
7.7	0.9	0.9	7.7	n/a

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Hard-To-Reach (HTR) Homes Program

Program Description	Program is designed to deliver long-term energy savings to income-eligible single and multi-family customers, specifically focusing on rural customers. This will be achieved through increasing the awareness and educational outreach to customers, property managers and owners about their energy usage, installing energy savings measures and providing financial incentives. The program consists of four components: Component 1: Enhanced Home Comfort: Heating & Cooling – Customers that install efficient heating and cooling equipment by one of the programs authorized trade allies are eligible to receive enhanced rebates. Note: eligible efficient heating equipment must be like technology to existing technology. Insulation and Air Sealing – Customers that have completed a comprehensive energy audit by a Program authorized energy auditor are eligible to receive enhanced rebates with potential DIY installation incentives for insulation. Evergy may also offer an on-bill financing solution for eligible measures. Component 2: Enhanced Home Products: Energy Efficient Products - Customers are eligible to receive enhanced incentives on energy efficiency products for the home through partner retailers on through an online marketplace. Appliance Recycling - Customers will have the opportunity to recycle old inefficient equipment such as refrigerators, freezers, and other small appliances that are high energy users. Shade Trees - Evergy will operate tree distributions free of charge during the appropriate season. School Education Kits - Evergy's teams will coordinate with local schools to provide interactive, educational program materials focused on energy efficiency and sustainability. Component 3: No Cost Energy Assessment & Free Energy Savings Kit - Energy efficient measures provided and/or installed in tenant units of multi-family building by the Company to include energy assessments. Component 4: Weatherization assistance: Continued support of federal weatherization program delivered and implemented through local agencies such as Kansas Housing Resources Center.

Hard-To-Reach (HTR) Homes Program

Target Market	Single Family: Components 2 & 3 (Enhanced Home Products and No Cost Energy Assessment & Free Energy Savings Kit) Eligibility Requirement: Home Location. Location in a census tract we identify as low- income, using HUD's annually published "Qualified Census Tracts" as a starting point. Components 1 & 4 (Enhanced Home Comfort & Weatherization Assistance) Eligibility Requirements: Income information. The Customer meets the eligibility requirements set forth in the Department of Energy (DOE) guidelines, or may elect to use the U.S. Department of Health & Human Services (HHS) Low-Income Energy Assistance Program (LIHEAP) criteria of state median income. In addition, applicant must meet other eligibility requirements defined in the agreement between the Company and Social Service Agency. Multi-Family (at least one of the below): Participation in an affordable housing program. Documented participation in a federal, state or local affordable housing program, including LIHTC, HUD, USDA, State HFA and local tax abatement for low-income properties. Location in a low-income census tract. Location in a census tract we identify as low-income, using HUD's annually published "Qualified Census Tracts" as a starting point. Rent roll documentation. Where at least 50 percent of units have rents affordable to households at or below 80% of area median income, as published annually by HUD. Tenant income information. Documented tenant income information demonstrating at least 50 percent of units are rented to households meeting one of these criteria: at or below 200 percent of the Federal poverty level or at or below 80% of area median income. Participation in the Weatherization Assistance Program. Documented information demonstrating the property is on the waiting list for, currently participating in, or has in the last five years participated in the Weatherization Assistance Program.

Hard-To-Reach (HTR) Homes Program

Program Goal

Expected energy and demand savings – 2023 - 2026
Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
3,849	4,619	5,700	5,347	1.9	2.4	3.1	3.0

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
1,041	1,290	1,591	1,505	0.5	0.6	0.8	0.8

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential
Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$2,043.9	$2,256.1	$2,472.6	$2,125.0
Delivery	$168.4	$213.9	$276.3	$274.6
Administration	$21.7	$27.6	$35.7	$35.4
Evaluation	$27.2	$34.5	$44.6	$44.3

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$620.6	$750.8	$856.5	$773.4
Delivery	$48.4	$62.3	$78.1	$77.8
Administration	$6.3	$8.0	$10.1	$10.0
Evaluation	$7.8	$10.1	$12.6	$12.5

Hard-To-Reach (HTR) Homes Program

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	**PY2**	**PY3**	**PY4**
252,061	308,014	308,293	299,803

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
1.9	1.7	0.8	2.5	2.5

Kansas Metro

TRC	UCT	RIM	SCT	PCT
1.4	1.2	0.5	1.8	2.5

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Business Programs

Whole Business Efficiency Program

Program Description

Program designed to encourage more effective utilization of electric energy by offering incentives for Energy Efficiency improvements which are available at the time of new equipment purchases, facility modernization, and industrial process improvement. Projects can be new construction or retrofits.
The Program encompasses Business Comfort, Business Operational, Business Products, and New Construction Components. Measures include, but are not limited to, the following equipment types:

- Lighting and Controls
- Motors, Pumps and Variable Frequency Drives
- Air Compressors
- HVAC (Heating, Ventilation and Air-Conditioning)
- Food Service and Refrigeration

Target Market

All business customers

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
16,920	25,395	26,375	24,972	6.4	9.3	9.1	8.1

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
7,153	10,834	11,403	11,051	2.6	3.8	3.7	3.5

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Whole Business Efficiency Program

Estimated Program Budget

Estimated Annual Budget – Confidential

Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$2,919.1	$4,306.2	$4,233.2	$3,929.3
Delivery	$1,642.6	$2,462.4	$2,536.1	$2,455.6
Administration	$212.0	$317.7	$327.2	$316.9
Evaluation	$264.9	$397.2	$409.1	$396.1

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$915.7	$1,370.6	$1,407.3	$1,328.2
Delivery	$508.0	$761.4	$788.1	$768.0
Administration	$65.5	$98.2	$101.7	$99.1
Evaluation	$81.9	$122.8	$127.1	$123.9

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	PY2	PY3	PY4
759,866	1,161,884	1,207,877	1,174,841

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
1.8	3.0	2.1	2.3	0.7

Kansas Metro

TRC	UCT	RIM	SCT	PCT
1.6	3.4	1.3	2.0	1.1

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Business Energy Education Program	
Program Description	Program provides educational services and resources to drive energy efficiency improvements to a variety of business customers. The program will include online tools to help customers identify energy savings opportunities as well as marketing efforts to promote and educate customers and trade allies. The program will also include Building Operator Certification courses. The program consists of 5 components. Component 1: Customer Facing Education Marketing - Will involve deployment of a consistent and holistic communication plan to help customers understand our purpose and outline how they can participate in our programs across the business portfolio. Component 2: Building Operator Education – Education opportunities for Building Operator Certification® (BOC), which is the leading training and certification program for building engineers and maintenance personnel. Courses will include both Level I (Building Systems Maintenance) and Level II (Improving Building Operational Performance). Component 3: Small Business Behavioral – Offers digital tools and communication of personalized energy savings recommendations. This will include online self-service education tools that are customizable by business type to educate customers on the best improvement opportunities for their business. This component uses targeted energy awareness outreach to change behavior and focuses on small businesses that typically have limited resources in identifying and implementing energy savings opportunities. Component 4: Community Events – Engagement withing our communities with hosted in-person and/or virtual events by Evergy to build trust and lasting relationships within the communities we serve. The objective of this component is to meet customers where they are in the community and show our commitment towards their individual needs. Evergy will focus on supporting small business customers. We will utilize these opportunities to educate, provide information and assist with program enrollment. Component 5: Rural Community Engagement – Evergy will conduct enhanced customer research and targeted outreach efforts aimed towards geographically hard to reach customers. The component is designed to create equity for customers who are often not reached by traditional program communications.
Target Market	All business customers

Business Energy Education Program

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings

Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
920	2,313	3,250	4,077	0.2	0.6	0.8	1.1

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
66	166	232	289	0.0	0.0	0.1	0.1

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential
Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$1,098.7	$1,458.3	$1,653.7	$1,828.0
Delivery	$206.8	$202.3	$202.2	$202.6
Administration	$28.5	$27.9	$27.9	$27.9
Evaluation	$49.9	$48.8	$48.8	$48.9

Kansas Metro

Business Energy Education Program

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$260.8	$358.8	$415.3	$465.6
Delivery	$49.1	$49.8	$50.8	$51.6
Administration	$6.8	$6.9	$7.0	$7.1
Evaluation	$11.8	$12.0	$12.3	$12.5

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	PY2	PY3	PY4
1,625	4,096	5,779	7,281

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
n/a	0.1	0.1	n/a	n/a

Kansas Metro

TRC	UCT	RIM	SCT	PCT
n/a	0.0	0.0	n/a	n/a

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Business Demand Response (BDR) Program

Program Description	Program designed to reduce Participant load during peak periods to improve system reliability, offset forecasted system peaks that could result in future generation capacity additions, and/or provide a more economical option to generation or purchasing energy in the wholesale market. Participant curtailment may be requested for any of these operational or economic reasons as determined by the Company. The Company will determine the most beneficial timing and length of curtailment events during the curtailment season, is not required to curtail all Participants simultaneously, and may elect to only call individual participants and/or stagger Participants as deemed appropriate. The Company also reserves the right to apply minimum and/or maximum event performance requirements for incentive payment, to apply financial bonuses or penalties and to terminate Participation Agreements for non-compliance. For the purpose of this program only, and at the Company's option, a Participant with multiple accounts may request that some or all of its accounts be aggregated in one Participation Agreement. The aggregated Participant account will be treated as a single account for purposes of calculating potential Program incentive payments. The Aggregator is responsible for all of their independent customer contracts; no minimum customer account requirements apply. Aggregator must maintain a minimum aggregated load as stated in their Aggregator Participation Agreement to maintain Program eligibility. This Program may be executed by manual and/or automated demand response methods: 1) Manual Demand Response (DR) A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls directly with the Company Program Administrator or Aggregator to participate. The Company or Program Administrator evaluates a Customer's metered usage data from the most recent Curtailment Season and gathers site specific information from the Participant to establish their curtailment plan and estimated associated curtailable load (kW). The Participant/Aggregator enrolls this curtailable load in the Program by executing their Participation Agreement. The Participant receives an event notice from the Company in advance of scheduled curtailment events and they manually execute their facility curtailment plan to curtail at least their enrolled curtailable load for the duration of the curtailment event.

Business Demand Response (BDR) Program

2) Automated Demand Response (ADR)
A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls with the Administrator or Aggregator. But, rather than manual execution of their load curtailment plan, the Participant's building/energy management system (BMS/EMS) or facility automation system is used to execute their curtailment plan. The Participant or Aggregator receives the curtailment event notice from the Company and integrates the utility's event calling system with their EMS. This connection will automate pre-programmed usage adjustments to respond to demand response events.

Participation Agreements

There will be two versions of Program Participation Agreements ("Agreement"). Customers enrolling with the Administrator will have a customer Agreement between the customer and the Program. Aggregators will have an aggregator Agreement between the Program and the Aggregator. Multi-year participation Agreements will be re-evaluated annually or at any time the Company has data indicating the terms of the participation Agreement cannot be fulfilled by the Participant.

Event Performance and Incentives
The Company will employ a calculated baseline load (CBL) methodology to determine participant demand savings associated with a demand response curtailment event. A CBL approach applies a model or algorithm to develop a customer-specific baseline for each day from historic metered usage data that is then used to forecast load impacts for each hour of the event absent a curtailment event. This baseline is calibrated to best match recent operational and/or weather patterns. This baseline is then compared to the actual metered average hourly demand during the curtailment event. The difference between the forecasted hourly baseline and the actual metered hourly usage during the event equals the hourly kW impact of the event. All kW will be calculated as a whole number. The Seasonal hourly average kW achieved divided by the kW enrolled is the Participant's % kW achieved. The Company will pay the Participant or Aggregator for their achieved Seasonal average percent of their enrolled Curtailable load within the established floor and cap as detailed in their Agreement.

Business Demand Response (BDR) Program

Target Market

All medium and large business customers

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings
Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
-	-	-	-	7.1	16.0	28.7	47.2

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
-	-	-	-	3.5	7.9	14.0	23.0

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential
Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$260.9	$600.6	$1,102.3	$1,859.1
Delivery	$149.3	$364.3	$650.8	$1,082.8
Administration	$19.3	$47.0	$84.0	$139.7
Evaluation	$24.1	$58.8	$105.0	$174.6

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$75.6	$173.7	$318.1	$535.1
Delivery	$44.1	$107.9	$193.5	$321.2
Administration	$5.7	$13.9	$25.0	$41.4
Evaluation	$7.1	$17.4	$31.2	$51.8

Business Demand Response (BDR) Program

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	**PY2**	**PY3**	**PY4**
243	303	432	631

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.
Kansas Central

TRC	UCT	RIM	SCT	PCT
3.0	1.3	1.3	3.0	n/a

.Kansas Metro

TRC	UCT	RIM	SCT	PCT
4.5	2.0	2.0	4.5	n/a

Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Hard-to-Reach Business Program	
Program Description	Program provides enhanced incentive values and services to small business and nonprofit customers. Projects can include new construction and retrofits and can include, but not limited to lighting, lighting controls, and HVAC (Heating, Ventilation and Air Conditioning). The program will also include a direct install component and free energy assessments. The Program includes five components: 1) Enhanced Business Comfort – increased rebates (noted in Section 5.1) or no cost upgrades for small businesses and nonprofits. 2) Enhanced Business Operational - increased rebates (noted in Section 5.1) or no cost upgrades for small businesses and nonprofits. 3) Enhanced Business Products – increased rebates (noted in Section 5.1) or no cost products for small businesses and nonprofits. 4) Enhanced New Construction - increased rebates (noted in Section 5.1) or no cost products for new construction projects for small businesses and nonprofits. 5) No Cost Energy Assessment and Free Energy Savings Kits – available for small businesses and nonprofits along with customers residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed. These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed. A pre-determined capped amount may be applied for direct install projects, with additional incentives available through the Hard-to-Reach Standard program other HTR options once the cap is met.
Target Market	Small Business HTR Qualification Criteria: Small Business Hard-to-Reach customers will be defined as customers who use less than 1.5 million kWh annually, or less than 100 kW in annual demand. Nonprofit HTR Qualification Criteria: Nonprofit organizations who meet the following requirements are eligible - • Organizations in 501(c)3 status and in good standing • Organization must serve low-income individuals and families • Organization must own the facility and be responsible for paying the energy bills

Hard-to-Reach Business Program

Program Goal

Expected energy and demand savings – 2023 - 2026

Projected Net Incremental Program Savings

Kansas Central

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
7,734	9,150	9,915	9,960	1.8	2.1	2.2	2.2

Kansas Metro

Net MWh Savings				Net MW Savings			
PY1	PY2	PY3	PY4	PY1	PY2	PY3	PY4
2,604	3,052	3,188	3,175	0.6	0.7	0.7	0.7

Program Framework/Strategy,

- *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.*
- *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.*
- *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)*
- *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*

Estimated Program Budget

Estimated Annual Budget – Confidential

Kansas Central

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$2,243.9	$2,715.0	$2,967.9	$3,053.9
Delivery	$949.5	$1,124.0	$1,206.7	$1,224.7
Administration	$122.5	$145.0	$155.7	$158.0
Evaluation	$153.1	$181.3	$194.6	$197.5

Kansas Metro

Budget ($000s) Cost Category	PY1	PY2	PY3	PY4
Incentives	$743.5	$894.2	$962.1	$982.6
Delivery	$317.5	$373.8	$391.7	$400.1
Administration	$41.0	$48.2	$50.5	$51.6
Evaluation	$51.2	$60.3	$63.2	$64.5

Hard-to-Reach Business Program

Program Beneficiaries

Estimated Incremental Measure Participation

Expected Number of Measures			
PY1	**PY2**	**PY3**	**PY4**
121,189	142,376	145,152	145,510

Program Benefit–Cost Analysis

All five benefit-cost tests are in the table below.

Kansas Central

TRC	UCT	RIM	SCT	PCT
1.5	1.5	1.2	1.9	1.2

Kansas Metro

TRC	UCT	RIM	SCT	PCT
1.3	1.4	0.8	1.7	1.8

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Program Evaluation, Measurement and Verification (EM&V) plan

For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.

Pilot Incubator

Program Description	Program is designed to focus on research and innovation of new programs, measures and concepts and improving current programs to drive better results. The program will provide the Company with a screening and evaluation mechanism to accomplish this and allow the Company flexibility to explore and research various ideas and concepts outside of the traditional DSM model to roll out for customer commercialization as deemed appropriate. The pilot incubator has three major stages, identifying concepts, validating ideas and integrating those evaluated designs into the main programs. Failing or succeeding with ideas quickly in a landscape where revision is allowed and expected, is less expensive than experimenting at scale, managing resources responsibly while creating the ability to transform programs to meet the changing needs of customers and ever evolving technologies.
Target Market	All customers
Program Goal	N/A
Program Framework/Strategy,	• *Relationship to other programs - A customer's program eligibility will be verified for all existing Evergy programs with the best solution(s) presented to the customer.* • *Marketing strategy - Program will be marketed in line with the strategy outlined in Section 9 of the main report.* • *Program delivery (In House/ Third Party) - Expected to be a mix of Evergy personnel and third-party relationships (see Section 9 of main report)* • *Partners - Identify existing organizations (or organization types) that might help, including Trade Allies and other Supporting/Aligned Organizations.*
Estimated Program Budget	Estimated Annual Budget – Confidential Kansas Central

Budget ($000s)	PY1	PY2	PY3	PY4
Total	$958.8	$1,279.9	$1,501.1	$1,712.1

Kansas Metro

Budget ($000s)	PY1	PY2	PY3	PY4
Total	$288.1	$391.4	$470.3	$544.6

Pilot Incubator	
Program Beneficiaries	N/A
Program Benefit–Cost Analysis	N/A
Program Evaluation, Measurement and Verification (EM&V) plan	*For details on EM&V plan, please refer to EM&V framework in section 7 or Appendix D of the filing.*

Appendix B. Program Tariff Sheets

GENERAL TERMS AND CONDITIONS

13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

PURPOSE:

The Residential Demand-Side Management (DSM) Programs (Programs) are designed to encourage residential customers to proactively use energy in such a way as to reduce consumption of electricity or to shift consumption from times of peak demand to times of non-peak demand. These Programs are offered in accordance with the Kansas Energy Efficiency Investment Act (KEEIA), Kansas Statutes Annotated, K.S.A. 66-1283.

AVAILABILITY:

Except as otherwise provided in the terms governing a particular program, these Programs are available to residential customers in Evergy's Kansas service area being served under any residential rate schedule. Unless otherwise provided for in the tariff sheets or schedules governing a specific program, customers may participate in multiple programs. The Company reserves the right to discontinue the entire KEEIA portfolio if the Company determines that implementation of such programs is no longer reasonable due to changed factors or circumstances that have materially negatively impacted the economic viability of such programs as determined by the Company, upon no less than thirty days' notice to the Commission.

DEFINITIONS:

Unless otherwise defined, terms used in tariff sheets or schedules have the following meanings:

Applicant - A customer who has submitted a program application or has had a program application submitted on their behalf.

Energy Efficiency Rider (EER) - A mechanism approved by the Commission in Evergy's filing for demand-side program approval in Case No._____.

Energy Efficiency - Measures that reduce the amount of electricity required to achieve a given end use.

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13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

Incentive - Any consideration provided by Evergy directly or through the Program Administrator and Program Partners, including buydowns, markdowns, rebates, bill credits, payment to third parties, direct installations, giveaways and education, which encourages the adoption of Measures.

Measure - An end-use, Energy Efficiency, and/or Demand Response Measure described for each Program in the Technical Resource Manual (TRM).

Participant - An energy related decision maker who implements one or more end use measures as a direct result of a demand side program.

Program Administrator - The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner - A retailer, distributor or other service provider that Evergy Kansas Metro or the Program Administrator has approved to provide specific program services through execution of a Evergy Kansas Metro approved service agreement.

TERM:

These tariff sheets and the tariff sheets reflecting each specific residential DSM program shall be effective for four years from the effective date of the tariff sheets, unless another termination date is approved by the Commission. If the Programs are terminated prior to the end of the Program Period, only Incentives for qualifying Measures that have been pre-approved or installed prior to the Programs' termination will be provided to the customer.

DESCRIPTION:

The reduction in energy consumption or shift in peak demand will be accomplished through the following Programs:

GENERAL TERMS AND CONDITIONS

13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

- Whole Home Efficiency
- Hard-to-Reach Homes
- Home Demand Response
- Home Energy Education
- Pilots Incubator

Program details regarding the interaction between Evergy Kansas Central or Program Administrators and Participants, such as available Measures, availability of the program, eligibility, and application and completion requirements may be adjusted through the change process as presented below.

Those details, additional details on each program, and other information such as process flows, application instructions, and application forms will be provided on the Evergy Kansas Central website, www.evergy.com.

PROGRAM CHANGE & PILOT COMMERCIALIZATION/ROLL-OUT PROCESS:

To ensure flexibility in the approved KEEIA Evergy Kansas Central program's and have the ability to commercialize pilot concepts, those that are not 'Program Level' – the Company will incorporate the follow the below process:

1. Discuss proposed change's' with Program Administrator;
2. Discuss proposed change's' with Evaluator;
3. Analyze impact on program and portfolio (cost-effectiveness, goal achievement, etc.);
4. Inform the Staff and other Stakeholders of the roll-out date at least 30 days prior to launch, providing the analysis that was performed and Evergy will consider recommendations from them that are received within the roll-out timeline;
5. Take timely received recommendations into account and incorporate them where Evergy believes it is appropriate to do so;
6. Notify and train customer contact personnel (Customer Service Representatives, Energy Consultants, Business Center) of the changes;

GENERAL TERMS AND CONDITIONS

13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

7. Make changes to forms and promotional materials;
8. Update program website;
9. File updated web pages and, if appropriate, updated list of Measures and Incentives amounts in Case No._____; and
10. Inform customer's, trade allies, etc. as appropriate

For pilots that are 'Program Level', Evergy will follow the standard tariff and program description filing process for approval to commercialize/roll-out.

Evergy Kansas Central will discuss and provide information during ongoing program and portfolio progress at regular regulatory advisory group update meetings.

PROGRAMS' ANNUAL ENERGY AND DEMAND SAVINGS TARGETS:

Note that targeted energy and demand savings may be shifted between programs depending on market response, changes in technology, or similar factors. These targets are based on savings at customer meters (excluding transmission and distribution line losses).

	Residential MW Savings for KS Central				
	PY1	PY2	PY3	PY4	Total
Whole Home Efficiency	3.6	5.8	7.8	8.3	25.5
Home Energy Education	0.2	0.6	1.0	1.2	3.0
Home Demand Response	31.0	33.2	44.8	61.6	170.6
Hard-to-Reach Homes	1.9	2.4	3.1	3.0	10.4
Total	36.7	41.9	56.7	74.2	209.5

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS

13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

	Residential MWh Savings for KS Central				
	PY1	PY2	PY3	PY4	Total
Whole Home Efficiency	9,741.7	15,444.9	18,690.6	20,008.0	63,885.2
Home Energy Education	1,362.6	3,437.9	5,551.2	7,002.9	17,354.6
Home Demand Response	589.0	1,242.6	2,293.5	3,935.6	8,060.7
Hard-to-Reach Homes	3,849.1	4,619.5	5,699.6	5,346.9	19,515.0
Total	15,542.4	24,744.9	32,234.9	36,293.3	108,815.5

Earnings Opportunity targets are set forth in Evergy Kansas Central Schedule DSIM Sheet ___as approved in Case No. _____.

PROGRAM COST AND INCENTIVES:

Costs of and incentives for the Residential DSM Programs reflected herein shall be reflected in a charge titled "Energy Efficiency Rider" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the residential rate schedules.

PROGRAM COST AND INCENTIVES:

All customers taking service under said rate schedule shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder.

PROGRAM DESCRIPTIONS:

The following pages contain other descriptions and terms for the Programs being offered under this tariff.

GENERAL TERMS AND CONDITIONS

13.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

CHANGES IN MEASURES OR INCENTIVES:

Evergy may offer the Measures contained in the Company's filing approved in Case No._____. The offering of Measures not contained within the aforesaid filing must be approved by the Commission.

Measures being offered and Incentives available to customers will be listed on Evergy's website, www.evergy.com. The Measures and Incentives being offered are subject to change.

Customers must consult www.evergy.com for the list of currently available Measures. Should a Measure or Incentive offering shown on Evergy's website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in Case No. _____ the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS

13.02 HOME DEMAND RESPONSE

PURPOSE:

The voluntary Home Demand Response Program is designed to reduce Participant load during peak periods to improve system reliability, offset forecasted system peaks that could result in future generation capacity additions, and/or provide a more economical option to generation or purchasing energy in the wholesale market.

Participant curtailment may be requested for any of these operational or economic reasons as determined by the Company. The Program accomplishes this by deploying various demand response technologies to Participants' WiFi-enabled thermostats or water heater controllers to modify the run-time of air conditioning unit(s), heat pump(s), or electric-fueled water heater(s) for a specified period of time in a Company coordinated effort to limit overall system peak load.

AVAILABILITY:

The program is available during the Program Period and available to all Evergy Kansas Metro residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

This program will consist of two components, to include (1) Smart Thermostats and (2) Water Heater DLC.For thermostat participation, customers must maintain a secure home WiFi-enabled internet service and have a working central air conditioning system or heat pump. If a WiFi-enabled thermostat is provided to customers at a discounted price, customers must agree to install the thermostat at their premise receiving electric service within fourteen (14) days of receiving the device, and keep it installed, operational, and connected to a secure home WiFi network for the duration of the program Cycle.

For water heater controller participation, customers must maintain a secure home WiFi-enabled internet service and have a working electric-fueled water heater.

GENERAL TERMS AND CONDITIONS

13.02 HOME DEMAND RESPONSE

If a WiFi-enabled water heater controller is provided to customers at a discounted price, customers must agree to install the controller at their premise receiving electric service within fourteen (14) days of receiving the device, and keep it installed, operational, and connected to a secure home WiFi network for the duration of the program Cycle.

Customers must agree to not sell the device for the duration of the program. If it is found that they do, a debit will be issued on their utility bill for the Manufacturer Suggested Retail Price (MSRP) of the WiFi-enabled thermostat or water heater controller, or the value of incentive provided to the customer. Payment of that debit will be the customer's responsibility. Incented devices through the Program are only eligible for utility retail or wholesale programs.

Residential property owner's (owner occupant or landlord for a rental property) permission is required to receive a thermostat or water heater controller and/or participate in the demand response program with an existing eligible thermostat or controller. Tenant permission is required to receive a thermostat or water heater controller and/or participate in the demand response program with an existing eligible thermostat or controller if the landlord is requesting participation.

The Company reserves the right to limit program participation. The Company also reserves the right to apply minimum and/or maximum event performance requirements for incentive payment, to apply financial penalties and to terminate participation for non-compliance.

This schedule is not applicable where the Customer's electric generating and/or electric storage system(s) are registered in the wholesale market as a part of a Demand Response (DR) or Distributed Energy Resource (DER) aggregation.

PROGRAM PROVISIONS:

The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy and demand savings targets. The Company and the Program Administrator will follow a multi-faceted approach to marketing the Program.

GENERAL TERMS AND CONDITIONS

13.02 HOME DEMAND RESPONSE

CONTROLS AND INCENTIVES:

Participants will receive enrollment and participation incentives at a level determined by the Company, which can be found at evergy.com/residentialdr. If customers have an existing Wi-Fi enabled eligible thermostat or water heater controller, the customer may elect to enroll and participate in the demand response program. During a curtailment event, the Company or its assignee will deploy various demand response technologies to Participants' Wi-Fi enabled thermostats or water heater controllers to modify the run-time of air conditioning unit(s), heat pump(s), or electric-fueled water heater(s) for a specified period of time in a Company coordinated effort to limit overall system peak load.

The customer has the option to opt-out of any individual curtailment event by modifying the settings on their device or contacting the Company. Participants have the option of opting out of the entire program by having the Company remove the device or by returning the device to the Company. The Company reserves the right to set and modify incentive levels at any point during the program.

CURTAILMENT METHODS:

The Company may elect to deploy various types of demand response technologies including, but not limited to: (1) cycling the compressor unit(s); (2) deploying stand-alone pre-cooling strategies; (3) deploying a combination of pre-cooling and cycling strategies; (4) deploying pre-cooling and temperature modification strategies.

The Company reserves the right to test new DR devices at any point during the program.

GENERAL TERMS AND CONDITIONS

13.02 HOME DEMAND RESPONSE

NOTIFICATION:

The Company will notify Program Participants of a curtailment event via various communication channels, including, but not limited to:

1. SMS;
2. email;
3. npush notifications;
4. in-app notifications;
5. device notifications

The notification can occur prior to or at the start of a curtailment event.

CURTAILMENT SEASON:

The Curtailment Season will extend from June 1 to September 30 with the ability to call emergency demand response events as needed from October 1 to May 30.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.03 HOME ENERGY EDUCATION

PURPOSE:

The Home Energy Education Program provides educational services and resources to drive energy efficiency improvements to a variety of residential customers. The Program will include online self-education tools, customer marketing, outreach communications, and in person events focused on community collaboration in areas where energy education is needed most. The underlining goals for these efforts are to educate customers on energy use and influence customers' energy behaviors.

AVAILABILITY:

The program is available during the Program Period and available to all Evergy Kansas Central residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

The Company will assign program administrators to manage different program options and promote community engagement. The Company will hire a third-party implementer to deliver turn-key program options with responsibility for all aspects of report generation, energy and demand savings quantification, customer communications and reporting when applicable. The program consists of the below components:

Component 1: Digital Tools (Online Education and Outreach) – Offers digital tools and communication of personalized energy savings recommendations.

This will include online self-service energy assessments that are designed to educate customers on the best efficiency improvement opportunities for their home. Through this Option the Company aims to grow our customers' understanding of how their home uses energy and ultimately creating and implementing a plan to improve.

GENERAL TERMS AND CONDITIONS

13.03 HOME ENERGY EDUCATION

Component 2: Marketing for Residential Education – Will involve deployment of a consistent and holistic communication plan to help customers understand our purpose and outline how they can participate in our programs across the residential portfolio.

Component 3: Community Events – Evergy will host in-person to build trust and lasting relationships within the communities we serve. Our goal is to meet customers where they are in the community and show our commitment towards valuing individual needs. A concentrated focus will include supporting customers who may have limited access to the internet or other sources of information. We will utilize these opportunities to educate, provide information, offer energy efficient products, and assist with program enrollment.

Component 4: Rural Community Engagement – will involve enhanced customer research and outreach efforts aimed towards geographically hard to reach customers. The program is designed to create equity for customers who are often not reached by traditional program communications.

Component 5: KS LILIES – Kansas Low Income Leadership in Essential Services – this collaborative is designed to offer support in three different but very interconnected home components: Energy Efficiency, Home Health, and Structural Repairs/Integrity. The goal of this initiative is to bring together regional partners who offer services to those in need within our communities. We will collaborate with various partners to assist in providing services to Income Eligible customers through the creation and evolution of a stronger network of support.

Component 6: Home Energy Education Report - is a behavioral energy efficiency and educational program that provides customers with energy reports explaining different household insights. The reports shall be delivered in email format and/or in paper format. The report will be composed of several modules of information to help customers understand and manage their energy use.

Some module examples are: Similar home comparison; energy comparisons over time; energy efficiency tips; and utility program promotions. The program provides information designed to influence customers' behavior to use energy more efficiently.

GENERAL TERMS AND CONDITIONS

13.03 HOME ENERGY EDUCATION

An Income-Eligible version of the report shall exist to help customers in need financially. Examples of modules for this report will include: Promotion of free direct installation of energy efficiency measures and energy assessments; low to no cost energy savings tips; utility billing assistance programs; and promotion of community assistance programs.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement, and Verification (EM&V) on the Home Energy Education Program where applicable.

GENERAL TERMS AND CONDITIONS

13.04 HARD-TO-REACH HOMES

PURPOSE:

The Hard-To-Reach Homes Program is designed to deliver long-term energy savings to income-eligible customers, specifically those in single family and multi-family housing with a focus on rural communities. This will be achieved through increasing the awareness and educational outreach to customers, property managers and owners about their energy usage, installing energy savings measures and financial incentives.

AVAILABILITY:

This program is available during the Program Period and is available to any Customer receiving service from Evergy Kansas Metro and meets the requirements as noted below.

Eligibility Requirements:

Single Family options for qualification:

1. **Location in a low-income census tract.** Location in a census tract we identify as low-income, using HUD's annually published "Qualified Census Tracts" as a starting point. – Will only be used to determine eligibility for Single Family Component's 2 & 3 (Enhanced Home Products and No Cost Energy Assessment & Free Energy Savings Kit), Component's details to follow.

2. **Income information.** Documented income information criteria that meet the Income Eligible Weatherization eligibility requirements set forth in the U.S. DOE guidelines, or may elect to use the U.S. Department of Health & Human Services (HHS) LIHEAP criteria of state-median income.

GENERAL TERMS AND CONDITIONS

13.04 HARD-TO-REACH HOMES

Multi-Family Options for Qualification:

1. **Participation in an affordable housing program.** Documented participation in a federal, state or local affordable housing program, including LIHTC, HUD, USDA, State HFA and local tax abatement for low-income properties.

2. **Location in a low-income census tract**. Location in a census tract we identify as low-income, using HUD's annually published "Qualified Census Tracts" as a starting point.

3. **Rent roll documentation.** Where at least 50 percent of units have rents affordable to households at or below 80% of area median income, as published annually by HUD.

4. **Tenant income information.** Documented tenant income information demonstrating at least 50 percent of units are rented to households meeting one of these criteria: at or below 200 percent of the Federal poverty level or at or below 80% of area median income.

5. **Participation in the Weatherization Assistance Program.** Documented information demonstrating the property is on the waiting list for, currently participating in, or has in the last five years participated in the Weatherization Assistance Program.

PROGRAM PROVISIONS:

Evergy Kansas Central will hire a Program Administrator to implement this program and provide the necessary services to effectively manage the program and strive to attain the energy and demand savings targets. The program consists of four options for Single Family:

GENERAL TERMS AND CONDITIONS

13.04 HARD-TO-REACH HOMES

Component 1: Enhanced Home Comfort – No cost upgrades for income eligible single-family and multi-family units. With enhanced rebates for income eligible multi-family common areas for measures as described in the Whole Home Efficiency, Tariff #13.08.

This component may be delivered jointly with local natural gas partners so that eligible customers, utilizing both utilities services, may receive benefits from each respective utility. Evergy offerings are not contingent upon co-delivery.

Component 2: Enhanced Home Products – Energy Efficient products provided at no cost or higher incentive Levels for measures as described in the Whole Home Efficiency, Tariff #12.08.

Component 3: No Cost Energy Assessment and Free Energy Savings Kit – Available for income eligible single-family or multi-family units and buildings, along with customers residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed. These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed.

Component 4: Weatherization Assistance – to offer continued support of federal weatherization assistance program available to single family customers, delivered through local community action agencies, like Kansas Housing Resource Center.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. _____ are eligible for program benefits and incentives and may be offered during the Program Period. Eligible Incentives and Measures can be found at www.evergy.com.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.05 INCOME-ELIGIBLE WEATHERIZATION

PURPOSE:

This Program is intended to assist residential Customers in reducing their energy usage by weatherizing the homes of qualified Customers.

AVAILABILITY:

This Program is available to any Customer currently receiving service under any generally available residential rate schedule and who also meets the additional Customer eligibility requirements defined in the agreement between the Company and the Social Service Agency. The Company reserves the right to modify or terminate the Program at any time subject to Commission approval.

PROGRAM ADMINISTRATION:

The Program will be administered by Kansas-based Social Service Agencies that are directly involved in qualifying and assisting Customers under this Program.

Company funds provided to the Social Service Agency under this tariff are not subject to the weatherization guidelines of the United States Department of Energy (DOE) and may be utilized by Social Service Agency towards the weatherization of properties that present hazardous or health concerns and regardless of date-last weatherized considerations as long as they satisfy company established guidelines.

PROGRAM ADMINISTRATION COSTS:

Program funds cannot be used for administrative costs except those incurred by the Social Service Agency that are directly related to qualifying and assisting Customers under this Program. The amount of reimbursable administrative costs per Program year shall not exceed 13 percent of the total Program funds, as defined in the agreement between the Company and the Social Service Agency, that are utilized by the Social Service Agency within a Program year.

GENERAL TERMS AND CONDITIONS

13.05 INCOME-ELIGIBLE WEATHERIZATION

PROGRAM GRANTS:

The total amount of grants offered to a Customer will be defined in the agreement between the Company and the Social Service Agency using established criteria for Income-Eligible Weatherization. The average expenditure per Customer in each program year shall not exceed the Adjusted Average Expenditure Limit for weatherization determined by the U.S. Department of Energy that is applicable for the month that the weatherization is completed.

CUSTOMER ELIGIBILITY:

The Social Service Agency will select Customers eligible for Income-Eligible Weatherization using the following criteria: The Customer meets the eligibility requirements set forth in the Department of Energy (DOE) guidelines, or may elect to use the U.S. Department of Health & Human Services (HHS) Low-Income Energy Assistance Program (LIHEAP) criteria of state median income. In addition, applicant must meet other eligibility requirements defined in the agreement between the Company and Social Service Agency.

PROGRAM FUNDING:

The Company will provide for incentive payments, marketing costs, evaluation cost, and Program administrative and delivery costs. This Program and its costs shall be eligible for recovery under the Company's Energy Efficiency Rider, Schedule EE, subject to the provisions thereof.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measure and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

PURPOSE:

Promote the installation of energy efficient measures and create long-term energy savings and bill reduction opportunities for residential participants through an on-bill charge tied to the building of which the upgrades were installed.

AVAILABILITY:

Available for participation to qualifying residential customers receiving services under Kansas Centrals residential rates.

To qualify customers must either own the home or the owner must sign an Owner Agreement agreeing to maintain the upgrades, and to not damage or remove the upgrades from the location. The owner must also agree to provide Property Notice of the benefits and obligations associated with the upgrades at the location to the next owner or customer before the sale or rental of the property. Projects that address upgrades to existing homes deemed unlikely to be habitable or to serve their intended purpose for the duration of the Company's cost recovery term will not be approved unless repairs are made that will extend the life through the Company's cost recovery period. If a building is a manufactured home, it must be built on a permanent foundation and less than 25 years old.

DEFINITIONS:

Energy Assessment – Detailed home walk through and performance data collection with the installation of energy saving measures provided as a direct install service, with customer education.

Participant Agreement – Agreement signed by Participants defining customer benefits and obligations, including service charges and duration of payments. If the home is a rental, this agreement will be signed by the owner and the tenant/customer.

Energy Efficiency Upgrade Plan – Document prepared by the Program Administrator to identify recommended upgrades.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

Estimated Life – The expected duration of the savings for each individual measure or upgrade.

Owner's Agreement – A separate required document indicating the owner's obligations (if participant is not the owner of the location).

Property Notice – Notice attached to property records outlining benefits and obligations associated with the upgrades. In jurisdictions in which Evergy cannot attach a Property Notice to property records, and in any case where a subsequent tenant is executing a rental agreement, Property Notice form must be signed by successor customer or purchaser indicating they accept benefits and obligations associated with the upgrades at the location before the sale or rental of the property.

Participant – Customer who agrees to the Energy Efficiency Plan, signs the Participant Agreement, and who will be responsible for the monthly Service Charge.

Qualifying Project – Project scope of work meeting financing criteria (Project cost, including Partner/Contractor/Trade Ally pricing and fees).

Financing Charge – Monthly charge assigned to the location recovering Program costs for upgrades, fees, any
required taxes, applicable cost of capital, or costs for customer-caused repairs as described in section 4.

PROVISIONS:

The Company will hire an Administrator to implement.

The process will include the following:

- **Step 1 - Home Inspection with Energy Savings Kit** - Visual home inspection with direct installation of energy saving measures. Homes that do not have (health, structural or other) concerns may move forward with more in-depth data collection using blowing door and cut blaster/pressure pans to record home features and conditions.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

- **Step 2 - Custom Project Presented** - Evergy analyzes usage history, assessment data, and Partner installation costs to determine each participant's unique qualifying scope of work. The qualifying scope of work, to be on the customer's on-bill financed amount ensures that estimated post upgrade savings over the lifetime of the measures offset the annual repayment to the utility.

  Co-Pay option: Customers may agree to pay a portion of a project's cost as an upfront payment to the Partner to qualify for the on-bill financing and/or to reduce the monthly financing charge.

- **Step 3 - Upgrade Completed** - If the customer agrees to custom scope of work, Evergy will facilitate installation through a network of trained Partners. The Administrator will notarize and file Property Notice with the location's property records and the Company will initiate on-bill charge 45 days following verification of installation.

Participation: To participate, a customer must: 1) request a utility analysis of cost-effective upgrades, 2) sign the Participant Agreement and 3) complete a Qualifying Project.

Location Ownership: If the participant is not the owner of the location, the owner must sign an Owner Agreement. The owner must agree to have a Property Notice attached to their property records.

Notice: Failure to obtain the signature of a successor customer who is renting the location on the Property Notice Form, or a purchaser in jurisdictions in which the company cannot attach the Property Notice to property records indicating that the successor customer received notice, will constitute the owner's acceptance of consequential damages and permission for a tenant or purchaser to break their lease or sales agreement without penalty.

Energy History: The customer authorizes the use of energy usage history by the Administrator to true up its energy analysis and determine qualifying recommendations.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

Energy Efficiency Upgrade Plans: The Company will have its Administrator perform a cost analysis and prepare an Energy Efficiency Plan (Plan) identifying recommended upgrades to improve energy efficiency and lower utility costs.

Incentive Payment: The Company will offer incentives currently available for an eligible residential Measure as defined in the Company's KEEIA Demand-Side Plan.

Net Savings: Recommended upgrades shall be limited to those where the annual Service Charges, including program fees and the utility's cost for capital, are no greater the estimated annual benefit from reduction to customer annual utility charges based on current rates in electricity and/or gas costs.

Co-Pay Option: Customers may agree to pay a portion of a project's cost as an upfront payment to the Partner to reduce the monthly financing charge. The Company will assume no responsibility for such upfront payments to the Partner.

Financing Charge: The Company will recover the costs for its investments including any fees as allowed in this tariff through a monthly Charge assigned to the location where upgrades are installed and paid by the Participant or successor occupying that location until all Company costs have been recovered. The Charge will also be set for a duration not to exceed the estimated life of the upgrades. The Charge and duration of payments will be included in the Efficiency Upgrade Agreement.

Cost Recovery: No sooner than 45 days after approval by the Company or its Administrator, the Participant shall be billed the monthly Charge as determined by the Company. The Company will bill and collect Charges until cost recovery is complete.

Eligible Upgrades: All upgrades must have Energy Star certification, if applicable, the Administrator may seek to negotiate with contractors or upgrade suppliers extended warranties to minimize the risk of upgrade failure on behalf of customers.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

Ownership of Upgrades: During the duration that Financing Charges are billed to customers at locations where upgrades have been installed, the Company will retain ownership of the installed upgrades. Upon completion of the cost recovery, ownership will be transferred to the owner of the location.

Maintenance of Upgrades: Participating customers and owner of the location (if the participant is not the owner) shall keep the installed upgrades in place, in working order, and maintained per manufacturer's instructions for the duration of the cost recovery. Participating customers shall report the failure of the installed upgrades to the Administrator or Company as soon as possible. If an upgrade fails, the Company is responsible for determining its cause and for repairing the equipment in a timely manner. If the owner, customer, or occupants caused the damage to the installed upgrades, they will reimburse the Company.

Termination of Service Charge: Once the utility's costs for the upgrades at a location have been recovered, including its cost of capital, the cost paid to the Partner to perform the work, costs for any repairs made to the upgrades, the monthly financing charge shall no longer be billed.

Vacancy: If a location at which upgrades have been installed becomes vacant for any reason and electric service is disconnected, the financing charge will be suspended until a successor customer takes occupancy. If the owner maintains electric service at the location, the owner will be billed the financing charge as part of any charges incurred while electric service is turned on.

Extension of Financing Charge: If the monthly financing charge is reduced or suspended for any reason, once repairs have been successfully effected or service reconnected, the number of total monthly payments shall be extended until the total collected through the financing charge is equal to the Company's cost for installation as described in section 4, including costs associated with repairs, deferred payments, and missed payments as long as the current occupant is still benefiting from the upgrades.

Tied to the Location: Until cost recovery for upgrades at a location is complete or the upgrades fail as described in section 4.4, the terms of this tariff shall be binding on the metered structure or facility and any future customer who shall receive service at that location.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

Disconnection for Non-Payment: As a charge paid in furtherance of an approved energy efficiency program, the Company may disconnect the metered structure for non-payment of the financing charge under the same provisions as for any other electric service.

Non-Payment: Costs associated with participants who have fallen into non-pay status before complete recovery of equipment costs have been received will be recovered as a KEEIA Program cost.

Confirm Savings Actually Exceeded Tariffed-Charge: Administrator will perform an annual analysis to evaluate weather-normalized 12-month post-upgrade Project cost savings and confirm that the financing charge remains lower than the estimated Project cost savings.

In the event the analysis indicates the financing charge exceeds the estimated project cost savings due to
inaccurate savings estimates, the financing charge may be reduced or eliminated to the extent needed for the participant to realize Project savings.

Repairs: Should at any future time during the billing of the financing charge the Company determines that the installed upgrades are no longer functioning as intended, and that the occupant or building owner as applicable did not damage or fail to maintain the installed upgrades, the Company shall reduce or suspend the financing charge until such time as the Company and/or its Partner can repair the upgrades. If the upgrades cannot be repaired or replaced cost effectively, the Company will waive remaining financing charges. If the Company determines the occupant or owner of the location as applicable, damaged or failed to maintain the upgrades in place as described in section 4.4, it will seek to recover all costs associated with the installation, including any fees, incentives paid to lower Project costs, and legal fees. The financing charge will continue until Company's cost recovery is complete, as long as the upgrades continue to function. The Company will not guarantee perfect operation of installed upgrades in every circumstance, and any suspension or waiver of unbilled financing charges shall not entitle the Participant or owner to any refund or cancellation of previously billed financing charges.

GENERAL TERMS AND CONDITIONS

13.06 ON-BILL FINANCING

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement, and Verification (EM&V).

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL SCHEDULE Section 13.07

(Name of Issuing Utility)

Replacing Schedule Initial Sheet 1

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable) which was filed _____

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 1 Sheets

GENERAL TERMS AND CONDITIONS

13.07 RESEARCH & PILOT INCUBATOR PROGRAM

PURPOSE:

The Research & Pilot Incubator program is designed to focus on research and innovation of new programs, measures and concepts and improving current programs. The program will provide the Company with a screening and evaluation mechanism and allow flexibility to explore and research various ideas and concepts outside of the traditional DSM model to roll out for customer commercialization as deemed appropriate.

AVAILABILITY:

This program is available to any Customer receiving service under any generally available residential or commercial rate schedules offered by the Company.

PROGRAM PROVISIONS:

The Company will hire a Program Administrator to implement this program and provide the necessary services to effectively manage the program.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. _____are eligible for program benefits and Incentives and may be offered during the Program Period. Eligible Incentives directly paid to customers and Measures can be found at www.evergy.com.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement, and Verification (EM&V) on this program.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL SCHEDULE Section 13.08

(Name of Issuing Utility)

Replacing Schedule Initial Sheet 1

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable) which was filed _____

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 2 Sheets

GENERAL TERMS AND CONDITIONS

13.08 WHOLE HOME EFFICIENCY

PURPOSE:

The Whole Home Efficiency (Program) is designed to provide holistic financial incentives to residential customers, including multi-family, increasing their awareness and incorporation of energy efficiency in their homes.

AVAILABILITY:

This program is available during the Program Period and is available to any Customer receiving service under any generally available residential rate scheduled offered by the Company.

PROGRAM PROVISIONS:

Evergy will hire a Program Administrator to implement the program and provide the necessary services to effectively manage the program and strive to attain the energy and demand savings targets.

The program consists of the below components:

Component 1: Home Comfort – Customers are eligible to receive incentives for installing efficient heating and cooling equipment and/or increasing air sealing and insulation in the home. Incentives for residential efficient heating systems will be only for the same as existing technology. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program.

Component 2: Home Products – Customers are eligible to receive incentives when purchasing energy efficiency products for the home such as LED bulbs, smart power strips, air purifiers and more. Additional program options include access to inefficient Appliance Recycling, distribution and planting of Shade Trees and educational energy saving School Kits. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS

13.08 WHOLE HOME EFFICIENCY

Component 3: No Cost Assessment & Discounted Energy Savings Kits – Free in person or virtual energy assessments with discounted energy efficient measures provided to residential single family and multi-family customer to educate the customer on their energy usage and provide instant energy savings.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. _____ are eligible for program benefits and incentives and may be offered during the Program Period.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measure and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

PURPOSE:

The Business Demand-Side Management (DSM) Programs (Programs) are designed to encourage business customers to proactively use energy in such a way as to reduce consumption of electricity or to shift consumption from times of peak demand to times of non-peak demand. These Programs are offered in accordance with the Kansas Energy Efficiency Investment Act (KEEIA), Kansas Statutes Annotated (K.S.A.) 66-1283.

AVAILABILITY:

Except as otherwise provided in the terms governing a specific program, these Programs are available to any of business customers in Evergy's Kansas Central service area being served under any business rate schedule. Unless otherwise provided for in the tariff sheets or schedules governing a specific program, customers may participate in multiple programs. The Company reserves the right to discontinue the entire KEEIA portfolio, if the Company determines that implementation of such programs is no longer reasonable due to changed factors or circumstances that have materially negatively impacted the economic viability of such programs as determined by the Company, upon no less than thirty days' notice to the Commission.

DEFINITIONS:

Unless otherwise defined, terms used in tariff sheets or schedules have the following meanings:

Applicant – A customer who has submitted a program application or has had a program application submitted on their behalf by an agent or trade ally.

Business Program - An energy efficiency program that is available to a non-residential customer receiving electric service.

Deemed Savings Table - A list of measures derived from the Company's filed TRM that characterizes associated gross energy and demand savings with specific measure parameters where available.

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

Energy Efficiency - Measures that reduce the amount of electricity required to achieve a given end use.

Energy Efficiency Rider (EER) - A mechanism approved by the Commission in Evergy's filing for demand-side program approval in Case No._____.

Incentive - Any consideration provided by Evergy directly or through the Program Administrator and Program Partners, including buydowns, markdowns, rebates, bill credits, payment to third parties, direct installations, giveaways and education, which encourages the adoption of Measures.

Long-Lead Project - A project committed to by a Customer, accepted by the Company, and a signed commitment offer received by the program administrator by the last day of the cycle period that will require a date after the end of the cycle period, but no later than 12 months following the cycle end to certify completion.

Measure - An end-use, Energy Efficiency, and/or Demand Response Measure described for each Program in the Technical Resource Manual (TRM).

Participant - An energy related decision maker who implements one or more end use measures as a direct result of a demand side program.

Program Administrator – The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner – A retailer, distributor or other service provider that Evergy Kansas Central or the Program Administrator has approved to provide specific program services through execution of a Evergy Kansas Central approved service agreement.

Program Period – The period from January 1, 2023 through December 31, 2026, unless sooner terminated under the TERM provision of this tariff. Programs may have slightly earlier termination dates for certain activities, as noted on the Evergy Kansas Central website – www.evergy.com.

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

Project – One or more Measures proposed by an Applicant in a single application.

Trade Ally- An independent contractor that the Company or the Program Administrator has approved to provide specific program services through execution of a Company approved service agreement.

Total Resource Cost (TRC) Test – A test of the cost-effectiveness of demand-side programs that compares the avoided utility costs to the sum of all incremental costs of end-use measures that are implemented due to the program (including both Evergy Kansas Central and Participant.

TERM:

These tariff sheets and the tariff sheets reflecting each specific business DSM program shall be effective for four years from the effective date of the tariff sheets, unless another termination date is approved by the Commission. If the Programs are terminated prior to the end of the Program Period, only Incentives for qualifying Measures that have been preapproved or installed prior to the Programs' termination will be provided to the customer.

DESCRIPTION:

The reduction in energy consumption or shift in peak demand will be accomplished through the following Programs:

- Whole Business Efficiency
- Hard-to-Reach Businesses
- Business Demand Response
- Business Energy Education
- Pilots Incubator

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

Program details regarding the interaction between Evergy Kansas Central or Program Administrators and Participants, such as Incentives paid directly to Participants, available Measures, availability of the Program, eligibility, and application and completion requirements may be adjusted through the change process as presented below.

Those details, additional details on each program, and other information such as process flows, application instructions, and application forms will be provided on the Evergy Kansas Central website, www.evergy.com.

PROGRAM CHANGE & PILOT COMMERCIALIZATION/ROLL-OUT PROCESS:

To ensure flexibility in the approved KEEIA Evergy Kansas Central program's and have the ability to commercialize pilot concepts, those that are not 'Program Level' – the Company will incorporate the follow the below process:

1. Discuss proposed change's' with Program Administrator;
2. Discuss proposed change's' with Evaluator;
3. Analyze impact on program and portfolio (cost-effectiveness, goal achievement, etc.);
4. Inform the Staff and other Stakeholders of the roll-out date at least 30 days prior to launch, providing the analysis that was performed and Evergy will consider recommendations from them that are received within the roll-out timeline;
5. Take timely received recommendations into account and incorporate them where Evergy believes it is appropriate to do so;
6. Notify and train customer contact personnel (Customer Service Representatives, Energy Consultants, Business Center) of the changes;
7. Make changes to forms and promotional materials;
8. Update program website;
9. File updated web pages and, if appropriate, updated list of Measures and Incentives amounts in Case No. _____; and
10. Inform customer's, trade allies, etc. as appropriate

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

For pilots that are 'Program Level', Evergy will follow the standard tariff and program description filing process for approval to commercialize/roll-out.

Evergy Kansas Central will discuss and provide information during ongoing program and portfolio progress at regular regulatory advisory group update meetings.

PROGRAMS' ANNUAL ENERGY AND DEMAND SAVINGS TARGETS:

Note that targeted energy and demand savings may be shifted between programs depending on market response, changes in technology, or similar factors. These targets are based on savings at customer meters (excluding transmission and distribution line losses).

Business MWh Savings for KS Central					
	PY1	PY2	PY3	PY4	Total
Whole Business Efficiency	16,919.6	25,395.5	26,375.4	24,972.3	93,662.8
Business Energy Education	920.1	2,313.2	3,250.1	4,076.6	10,559.9
Business Demand Response	-	-	-	-	-
Hard-to-Reach Businesses	7,734.3	9,150.3	9,914.9	9,960.2	36,759.6
Total	25,574.0	36,859.0	39,540.4	39,009.1	140,982.4

Business MW Savings for KS Central					
	PY1	PY2	PY3	PY4	Total
Whole Business Efficiency	6.4	9.3	9.1	8.1	32.9
Business Energy Education	0.2	0.6	0.8	1.1	2.8
Business Demand Response	7.1	16.0	28.7	47.2	98.9
Hard-to-Reach Businesses	1.8	2.1	2.2	2.2	8.4
Total	15.6	28.0	40.8	58.6	143.0

GENERAL TERMS AND CONDITIONS

13.09 BUSINESS DEMAND-SIDE MANAGEMENT

Earnings Opportunity targets are set forth in Evergy Kansas Central Schedule DSIM Sheet ____ as approved in Case No. _____.

PROGRAM COST AND INCENTIVES:

Costs of and incentives for the business DSM Programs reflected herein shall be reflected in a charge titled "Energy Efficiency Rider" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the business rate schedules. All customers taking service under said rate schedule shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder.

PROGRAM DESCRIPTIONS:

The following pages contain other descriptions and terms for the Programs being offered under this tariff.

CHANGES IN MEASURES OR INCENTIVES:

Evergy may offer the Measures contained in the Company's filing approved in Case No. _____. The offering of Measures not contained within the aforesaid filing must be approved by the Commission. Measures being offered and Incentives available to customers will be listed on Evergy's website, www.evergy.com. The Measures and Incentives being offered are subject to change. Customers must consult www.evergy.com for the list of currently available Measures. Should a Measure or Incentive offering shown on Evergy's website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in Case No. _____ the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

GENERAL TERMS AND CONDITIONS

13.10 BUSINESS DEMAND RESPONSE PROGRAM

PURPOSE:

Business Demand Response ("Program" or "BDR") is designed to reduce Participant load during peak periods to improve system reliability, offset forecasted system peaks that could result in future generation capacity additions, and/or provide a more economical option to generation or purchasing energy in the wholesale market. Participant curtailment may be requested for any of these operational or economic reasons as determined by the Company.

AVAILABILITY:

This Program is available during the Program Period, and is available to all customers in the classes identified in the Business Demand-Side Management section that also meet Program provisions. Participants must show economic and technical feasibility for measurable and verifiable load curtailment during the Curtailment Season of June 1 to September 30 and within designated Curtailment Hours of 12:00 p.m. to 8:00 p.m., Monday through Friday excluding Holidays. The Company reserves the right to limit the total Curtailable Load determined under this Program. The Company will determine the most beneficial timing and length of curtailment events during the curtailment season, is not required to curtail all Participants simultaneously, and may elect to only call individual participants and/or stagger Participants as deemed appropriate. The Company also reserves the right to apply minimum and/or maximum event performance requirements for incentive payment, to apply financial bonuses or penalties and to terminate Participation Agreements for non-compliance.

The Company reserves the right to curtail some or all Participants year-round if needed. This off-season curtailment would be utilized during emergency situations locally or regionally. Off-season participation is voluntary with participant payment at the discretion of the Company outlined in the Participation Agreements.

GENERAL TERMS AND CONDITIONS

13.10 BUSINESS DEMAND RESPONSE PROGRAM

The Company will engage a third-party Administrator to implement all recruitment, enrollment and daily operations for the Program and manage Aggregators. A Customer may participate directly through the Program Administrator ("Administrator") or a Company-approved Aggregator ("Aggregator"). An aggregator is a curtailment service provider, appointed by a customer to act on behalf of said Customer with respect to all aspects of the Program, including but not limited to: a) the receipt of notices from the Company under this Program; and b) the receipt of incentive payments from the Company. The Aggregator will be responsible for establishing independent business to business (B:B) contracts and administering the participation of said customer. The Aggregator is fully responsible for fulfillment of these B:B customer contracts. Contracts between Aggregator and their enrolled customers are not limited to Program provisions.

For the purpose of this program only, and at the Company's option, a Participant with multiple accounts may request that some or all of its accounts be aggregated in one Participation Agreement. The aggregated Participant account will be treated as a single account for purposes of calculating potential Program incentive payments. The Aggregator is responsible for all of their independent B:B customer contracts; no minimum customer account requirements apply. Aggregator must maintain a minimum aggregated load as stated in their Aggregator Participation Agreement to maintain Program eligibility.

This schedule is not applicable where the Customer's electric generating and/or electric storage system(s) are registered in the wholesale market as a part of a Demand Response (DR) or Distributed Energy Resource (DER) aggregation.

PROGRAM PROVISIONS:

This Program may be executed by manual and/or automated demand response methods:

GENERAL TERMS AND CONDITIONS

13.10 BUSINESS DEMAND RESPONSE PROGRAM

1. **Manual Demand Response (DR)**
A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls directly with the Company Program Administrator or Aggregator to participate. The Company or Program Administrator evaluates a Customer's metered usage data from the most recent Curtailment Season and gathers site specific information from the Participant to establish their curtailment plan and estimated associated curtailable load (kW). The Participant/Aggregator enrolls this curtailable load in the Program by executing their Participation Agreement. The Participant receives an event notice from the Company in advance of scheduled curtailment events and they manually execute their facility curtailment plan to curtail at least their enrolled curtailable load for the duration of the curtailment event.

2. **Automated Demand Response (ADR)**
A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls with the Administrator or Aggregator. But, rather than manual execution of their load curtailment plan, the Participant's building/energy management system (BMS/EMS) or facility automation system is used to execute their curtailment plan. The Participant or Aggregator receives the curtailment event notice from the Company and integrates the utility's event calling system with their EMS. This connection will automate pre-programmed usage adjustments to respond to demand response events.

PARTICIPATION AGREEMENTS:

There will be two versions of Program Participation Agreements ("Agreement"). Customers enrolling with the Administrator will have a customer Agreement between the customer and the Program.

Aggregators will have an aggregator Agreement between the Program and the Aggregator. Multi-year participation Agreements will be re-evaluated annually or at any time the Company has data indicating the terms of the participation Agreement cannot be fulfilled by the Participant.

GENERAL TERMS AND CONDITIONS

13.10 BUSINESS DEMAND RESPONSE PROGRAM

EVENT PERFORMANCE AND INCENTIVES:

The Company will employ a calculated baseline load (CBL) methodology to determine participant demand savings associated with a demand response curtailment event. A CBL approach applies a model or algorithm to develop a customer-specific baseline for each day from historic metered usage data that is then used to forecast load impacts for each hour of the event absent a curtailment event. This baseline is calibrated to best match recent operational and/or weather patterns. This baseline is then compared to the actual metered average hourly demand during the curtailment event. The difference between the forecasted hourly baseline and the actual metered hourly usage during the event equals the hourly kW impact of the event. All kW will be calculated as a whole number. The Seasonal hourly average kW achieved divided by the kW enrolled is the Participant's % kW achieved. The Company will pay the Participant or Aggregator for their achieved Seasonal average percent of their enrolled Curtailable kW load within the established floor and cap as detailed in their Agreement with the Company or Aggregator.

The Company will communicate with Participants and Aggregators in advance of a curtailment event to increase their ability to successfully participate. Customer and Aggregator Agreements will contain specific information for curtailment specifications that fall within the following limits.

Maximum number of events per season - 10;
Minimum number of events per season - 1
Maximum duration of an event - 8 hours;
Minimum notification prior to an event - 1 hour.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.11 BUSINESS ENERGY EDUCATION

PURPOSE:

The Business Energy Education Program provides educational services and resources to drive energy efficiency improvements to a variety of business customers. The program will include online tools to help customers identify energy savings opportunities, as well as marketing efforts to promote and educate customers and trade allies. The program will also include Building Operator Certification courses.

AVAILABILITY:

This program is available during the Program Period and available to all Evergy Kansas Central non-residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

The Company will assign program administrators to manage different program options and promote community engagement. The Company will hire a third-party implementer to deliver turn-key program options with responsibility for all aspects of report generation, energy and demand savings quantification, customer communications and reporting when applicable. The program consists of the below components:

Component 1: Behavioral (Online Education and Outreach) – Offers digital tools and communication of personalized energy savings recommendations. This will include online self-service education tools that are customizable by business type to educate customers on the best improvement opportunities for their business. This Option uses targeted energy awareness outreach to change behavior and focuses on small businesses that typically have limited resources in identifying and implementing energy savings opportunities.

Component 2: Marketing - Will involve deployment of a consistent and holistic communication plan to help customers understand our purpose and outline how they can participate in our programs across the business portfolio.

GENERAL TERMS AND CONDITIONS

13.11 BUSINESS ENERGY EDUCATION

Component 3: Community Events - Will be hosted in-person by Evergy to build trust and lasting relationships within the communities we serve. Our goal is to meet customers where they are in the community and show our commitment towards valuing individual needs. A concentrated focus will include supporting small business customers. We will utilize these opportunities to educate, provide information and assist with program enrollment.

Component 4: Rural Community Engagement - Will involve enhanced customer research and outreach efforts aimed towards geographically hard to reach customers. The program is designed to create equity for customers who are often not reached by traditional program communications.

Component 5: Building Operator Certification - The Building Operator Certification® (BOC) is the leading training and certification program for building engineers and maintenance personnel. Courses will include both Level I (Building Systems Maintenance) and Level II (Improving Building Operational Performance).

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.12 HARD-TO-REACH BUSINESSES

PURPOSE:

The Hard-to-Reach Business Program provides enhanced incentive values and services to small business and nonprofit customers. Projects can include new construction and retrofits and can include, but not limited to lighting, lighting controls, and HVAC (Heating, Ventilation and Air Conditioning). The program will also include a direct install component and free energy assessments.

AVAILABILITY:

This program is available during the Program Period and available to all Kansas non-residential customers receiving electric that also meet the program provisions below. Customers must also be deemed as a "hard to reach" customer which will be measured by annual usage (less than 1.5 million kWh and/or 100 kW). The program will also include eligibility for nonprofit organizations who meet the following requirements -

- Organizations in 501(c)3 status and in good standing
- Organization must serve low-income individuals and families
- Organization must own the facility and be responsible for paying the energy bills

PROGRAM PROVISIONS:

This program provides an incentive for installing new or replacing existing equipment with qualifying high efficiency equipment, through the following options –

- Standard - Provides fixed incentives for specific energy efficient measures with pre-set savings values.

- Custom - Provides incentives for qualifying complex or unique projects that do not fall under Standard, with incentives determined on a $/kW or $kWh basis.

GENERAL TERMS AND CONDITIONS

13.12 HARD-TO-REACH BUSINESSES

No Cost Energy Assessment and Free Energy Savings Kits – Free energy assessments and direct install kits for eligible customers.

Custom measures will require pre-approval by the Program Administrator before the project start date to be eligible for a rebate; Standard measures above a designated incentive amount may also require pre-approval. Customer applications will be evaluated, and the rebates will be distributed on a first-come basis according to the date of the customer's application. Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. Incentives will be provided to customers through a check or bill credit, depending on customer preference

ELIGIBLE MEASURES AND INCENTIVES:

Program encompasses Business Products, HVACR, Mechanical, or New Construction Options, as well as Direct Install and Energy Assessment services for Small Business and Nonprofit business customers. This includes, but is not limited to lighting, HVAC systems, motors, pumps, air compressors or other qualifying equipment or systems with higher energy efficiency equipment or systems.

Program options include:

1. Enhanced Business Comfort – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #13.14.

2. Enhanced Business Operational – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #13.14.

GENERAL TERMS AND CONDITIONS

13.12 HARD-TO-REACH BUSINESSES

3. Enhanced Business Products – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #13.14.

4. Enhanced New Construction – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #13.14.

5. No Cost Energy Assessment and Free Energy Savings Kits – available for small businesses and nonprofits residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed.

These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed. A pre-determined capped amount may be applied for direct install projects, with additional incentives available through other components once the cap is met.

Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. The maximum amount of each rebate will be calculated as a flat rate in dollars per coincident peak kW or cents per kWh saved, up to the customer annual maximum.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS

13.13 MARKET BASED DEMAND RESPONSE PROGRAM

PURPOSE:

The Market Based Demand Response Program (MBDR) offers qualified business demand response (BDR) participants an additional opportunity to reduce their electric costs through participation with Evergy in the wholesale Southwest Power Pool (SPP) energy market by providing load reduction during high price periods in the market and declared emergency events. Participation in this Program authorizes Evergy to offer the Customer's Curtailment Amount in the SPP Integrated Marketplace and to compensate Participants based on any SPP settlement payments.

AVAILABILITY:

This Program is available to BDR participants whose demand response (DR) resources are compliant with the SPP tariff and SPP Marketplace Protocol requirements and can provide sustainable load reduction during a Curtailment Event. The Participant's DR Resources will be registered in the SPP Day Ahead and/or Real Time Energy Market as either Bulk Demand Response Resources or Dispatchable Demand Response Resources.

The technical and operational requirements for each DR Resource type are outlined in the MBDR Contract and the SPP Marketplace Protocol, as it may change from time-to-time.

DEFINITIONS:

1. Aggregation - the process of combining of multiple DR Curtailment Amounts into a single Curtailment Amount.

2. Curtailment Amount - the difference between the Participant's HCLP and the actual Participant load during each hour of a Curtailment event.

3. Curtailment Event - when the Company instructs Participants to curtail load for a defined period of time.

GENERAL TERMS AND CONDITIONS

13.13 MARKET BASED DEMAND RESPONSE PROGRAM

4. Customer Representative – an entity that the Customer has designated to facilitate all or some of the customer offers, notifications and transactions under this program

5. Demand Response – the ability for a Participant to engage DR Resources and reduce its Load when so instructed.

6. DR Resource (DRR) – a controllable load, including behind the meter generation and/or storage, that can reduce the Customer's withdrawal of energy from the electric grid.

7. Hourly Customer Load Profile (HCLP) – an hourly estimate of the Participant's electric consumption amount absent load curtailment for a DR event.

8. Incentive – Any consideration provided by Evergy directly or through the Program Administrator, including in the form of cash, bill credit, payment to third party, or public education programs, which encourages the adoption of customer behaviors or measures.

9. Marginal Forgone Retail Rate (MFRR) – The amount forgone by the Company for the energy not consumed by the Customer at the full marginal retail rate.

10. Participant – The end-use Customer or Customer Representative.

11. Program Administrator – The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.

12. Program Partner – A service provider that Evergy or the Program Administrator has approved

CURTAILMENT SEASON:

This program's Curtailment Season will be annually from January 1 through December 31.

GENERAL TERMS AND CONDITIONS

13.13 MARKET BASED DEMAND RESPONSE PROGRAM

CONTRACTOR CURTAILMENT AMOUNT:

The Participant's MBDR Contract will specify the agreed upon Contract Curtailment Amount and shall be the same Curtailment Amount for each month of the contract.

Under no circumstances shall the Contract Curtailment Amount be less than 100 kW and not more than the Participant's BDR Contract Curtailment Amount. The Curtailment Amount is calculated as the difference between the Participant's HCLP and the Participant actual average load during each hour of a DR event.

AGGREGATION OF BDR CURTAILMENT AMOUNTS:

For the purposes of this program, and at the Company's option, a Participant with service at multiple premise locations may request that the BDR Curtailment Amounts from some, or all, of the Participants premises be aggregated to achieve the minimum MBDR Contract Curtailment Amount. Availability of the Participant premise aggregation is further subject to the technical feasibility of the installation of required Company metering and communication equipment and SPP requirements.

METERING AND COMMUNICATION REQUIREMENTS:

Participants must have Company installed metering capable of providing the interval load metering and telemetry required by SPP on each participating service point. The Participant shall be responsible for the incremental cost of any additional Company metering, communications or control equipment required beyond that which is normally provided.

DAILY MARKET PARTICIPATION:

A Participant shall have the option of market participation on any particular day except for days on which the Company has scheduled a potential BDR Curtailment Event. Participant Curtailable Amounts will be included in the daily Day Ahead Energy Offers by the Company to SPP unless the Participant specifies that it does not wish to participate on a specific day. Upon enrollment, the Participant will establish a default Offer for their Contract Curtailment Amount that will remain valid

GENERAL TERMS AND CONDITIONS

13.13 MARKET BASED DEMAND RESPONSE PROGRAM

until updated or declared unavailable by the Participant.

PARTICIPANT LOAD REDUCTION OBLIGATION:

The Company will notify the Participant of all Offers accepted by SPP. The Participant shall be responsible for acting upon a cleared offer and is obligated to reduce load in accordance with the SPP instructions. Deviations in Curtailment Amounts above or below the dispatch instruction amount may result in charges as described in the MBDR contract. Any such charges will be assessed to the Participant.

PARTICIPANT COMPENSATION:

Based upon the Participant's performance related to SPP-cleared offers, SPP will calculate the settlement payment for each market operating day. The value of the settlement payment (credit or debit) will take into consideration the: (1) Participant's specified offer parameters; (2) SPP cleared offers and dispatch instructions (3) actual DR Load Curtailment Amount; and (4) Locational Marginal Price associated with the Participants DR Resource. Failure to provide the committed level of load reduction will result in charges consistent with the provisions in the applicable SPP Market Protocol manual. The Company will remit to the Participant the net proceeds (SPP settlement payments less administrative fees and charges) as a credit (or charge) on the Participant's monthly bill. Depending on the Participant's billing cycle and when credits or debits are issued within the month, posting of the credits or debits to the Participant's bill may be delayed.

PARTICIPANT PARTICIPATION FEES:

Participants shall be assessed the following program fees and charges as specified in the Participant's MBDR Contract

1. DR Resource Market Registration Fee – a one-time fee to cover the administrative cost of registering the DRR with the SPP and determining the viability of the Participant's DR Load Curtailment Amount.

GENERAL TERMS AND CONDITIONS

13.13 MARKET BASED DEMAND RESPONSE PROGRAM

2. DR Resource Registration Modification Fee – A per occurrence fee, to cover the administrative cost of changing the DRR registration with SPP and determining the viability of the Participant's new DR Load Curtailment Amount.

3. Monthly Meter Service Charge - a Monthly Meter Service Charge, per meter, to offset the ongoing program administration costs, including increased meter data reporting frequency, telemetry, communications, meter data aggregation, and HCLP determination.

4. Market Settlement Fees - The marginal forgone retail rate (MFRR) plus a percentage of the net SPP market settlements to offset ongoing program transaction costs including communicating SPP dispatch instructions, processing and tracking settlements and other transaction related costs.

The Company shall bill the Participant the following administrative fees and charges.

Program Participation Fees and Charges	Frequency
Metering, Communication, and Other Direct Costs	Per Occurrence
DR Resource Market Registration Fee	One Time per Resource
DR Resource Market Registration Modification Fee	Per Occurrence
Monthly Meter Service Charge	Per Meter
Market Settlement Fees	Bids Cleared by SPP

GENERAL TERMS AND CONDITIONS

13.14 WHOLE BUSINESS EFFICIENCY

PURPOSE:

The Whole Business Efficiency program is designed to encourage more effective utilization of electric energy by offering incentives for energy efficiency improvements which are available at the time of new equipment purchases, facility modernization, and industrial process improvement. Projects can include new construction and retrofits and can include, but not limited to, HVAC and lighting equipment, business envelope, and other mechanical measures.

AVAILABILITY:

This program is available during the Program Period and available to all Kansas non-residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

This program provides an incentive for installing new or replacing existing equipment with qualifying high efficiency equipment, through the following options –

- Standard - Provides fixed incentives for specific energy efficient measures with pre-set savings values.
- Custom – Provides incentives for qualifying complex or unique projects that do not fall under Standard, with incentives determined on a $/kW or $kWh basis.

To become a Participant in the Program customers must request a rebate for a project by submitting an application through the Evergy website. Custom measures will require pre-approval by the Program Administrator before the project start date to be eligible for a rebate; Standard measures above a designated incentive amount may also require pre-approval. Customer applications will be evaluated, and the rebates will be distributed on a first-come basis according to the date of the customer's application. Rebate applications for different energy saving measures at the same facility may be submitted.

GENERAL TERMS AND CONDITIONS

13.14 WHOLE BUSINESS EFFICIENCY

PROGRAM PROVISIONS:

An entity with multiple facilities may participate for each facility by submitting an application for each facility. Incentives will be provided to customers through a check or bill credit, depending on customer preference. Pre-determined project and annual incentive caps may be established, with additional incentives available at a lower rate once the cap is met.

ELIGIBLE MEASURES AND INCENTIVES:

Standard Measures filed in a Technical Resource Manual agreed to on an annual basis are eligible for program benefits and incentives and may be offered during the Program Period. The Program encompasses Business Products, HVACR, Mechanical, or New Construction Options, as well as operations and maintenance measures under Retro-Commissioning. Measures include, but are not limited to, the following equipment types:

- Lighting and Controls
- Motors, Pumps and Variable Frequency Drives
- Air Compressors
- HVAC (Heating, Ventilation and Air-Conditioning)
- Food Service and Refrigeration

Eligible Incentives directly paid to customers and Measures can be found at www.evergy.com.

The Program includes the following options:

1. **Business Comfort**: Building comfort measures such as insulation and air sealing improvements, door enhancements and other custom measures. Also, to include air conditioner and heating equipment, and controls projects, including tune-ups and other behavioral strategies.

GENERAL TERMS AND CONDITIONS

13.14 WHOLE BUSINESS EFFICIENCY

2. **Business Operational:** Refrigeration, food service equipment, ventilation, laundry, or other mechanical upgrades to save on energy costs. This includes a Retro-Commissioning program, which provides incentives for operations and maintenance measures identified through a Retro-Commissioning study.

3. **Business Products:** Rebates for LEDs, control equipment and other products through midstream, or the custom or standard rebate channel for all business customers.

4. **New Construction**: Provides incentives for early design assistance and qualifying complex or unique new construction projects, with rebates determined on a $/kW or $/kWh bases for incremental savings above code.

Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. The maximum amount of each rebate will be calculated as a flat rate in dollars per coincident peak kW or cents per kWh saved.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

PURPOSE:

The Residential Demand-Side Management (DSM) Programs (Programs) are designed to encourage residential customers to proactively use energy in such a way as to reduce consumption of electricity or to shift consumption from times of peak demand to times of non-peak demand. These Programs are offered in accordance with the Kansas Energy Efficiency Investment Act (KEEIA), Kansas Statutes Annotated, K.S.A. 66-1283.

AVAILABILITY:

Except as otherwise provided in the terms governing a particular program, these Programs are available to residential customers in Evergy's Kansas service area being served under any residential rate schedule. Unless otherwise provided for in the tariff sheets or schedules governing a specific program, customers may participate in multiple programs. The Company reserves the right to discontinue the entire KEEIA portfolio if the Company determines that implementation of such programs is no longer reasonable due to changed factors or circumstances that have materially negatively impacted the economic viability of such programs as determined by the Company, upon no less than thirty days' notice to the Commission.

DEFINITIONS:

Unless otherwise defined, terms used in tariff sheets or schedules have the following meanings:

Applicant - A customer who has submitted a program application or has had a program application
submitted on their behalf.

Energy Efficiency Rider (EER) - A mechanism approved by the Commission in Evergy's filing for demand-side program approval in Case No._____.

Energy Efficiency - Measures that reduce the amount of electricity required to achieve a given end use.

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

Incentive - Any consideration provided by Evergy directly or through the Program Administrator and Program Partners, including buydowns, markdowns, rebates, bill credits, payment to third parties, direct installations, giveaways and education, which encourages the adoption of Measures.

Measure - An end-use, Energy Efficiency, and/or Demand Response Measure described for each Program in the Technical Resource Manual (TRM).

Participant - An energy related decision maker who implements one or more end use measures as a direct result of a demand side program.

Program Administrator - The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner - A retailer, distributor or other service provider that Evergy Kansas Metro or the Program Administrator has approved to provide specific program services through execution of a Evergy Kansas Metro approved service agreement.

TERM:

These tariff sheets and the tariff sheets reflecting each specific residential DSM program shall be effective for four years from the effective date of the tariff sheets, unless another termination date is approved by the Commission. If the Programs are terminated prior to the end of the Program Period, only Incentives for qualifying Measures that have been pre-approved or installed prior to the Programs' termination will be provided to the customer.

DESCRIPTION:

The reduction in energy consumption or shift in peak demand will be accomplished through the following Programs:

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

- **Whole Home Efficiency**
- **Hard-to-Reach Homes**
- **Home Demand Response**
- **Home Energy Education**
- **Pilots Incubator**

Program details regarding the interaction between Evergy Kansas Central or Program Administrators and Participants, such as available Measures, availability of the program, eligibility, and application and completion requirements may be adjusted through the change process as presented below.

Those details, additional details on each program, and other information such as process flows, application instructions, and application forms will be provided on the Evergy Kansas Central website, www.evergy.com.

PROGRAM CHANGE & PILOT COMMERCIALIZATION/ROLL-OUT PROCESS:

To ensure flexibility in the approved KEEIA Evergy Kansas Central program's and have the ability to Commercialize pilot concepts, those that are not 'Program Level' – the Company will incorporate the follow the below process:

1. Discuss proposed change's' with Program Administrator;
2. Discuss proposed change's' with Evaluator;
3. Analyze impact on program and portfolio (cost-effectiveness, goal achievement, etc.);
4. Inform the Staff and other Stakeholders of the roll-out date at least 30 days prior to launch, providing the analysis that was performed and Evergy will consider recommendations from them that are received within the roll-out timeline;
5. Take timely received recommendations into account and incorporate them where Evergy believes it is appropriate to do so;

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

6. Notify and train customer contact personnel (Customer Service Representatives, Energy Consultants, Business Center) of the changes;
7. Make changes to forms and promotional materials;
8. Update program website;
9. File updated web pages and, if appropriate, updated list of Measures and Incentives amounts in Case No._____; and
10. Inform customer's, trade allies, etc. as appropriate

For pilots that are 'Program Level', Evergy will follow the standard tariff and program description filing process for approval to commercialize/roll-out.

Evergy Kansas Metro will discuss and provide information during ongoing program and portfolio progress at regular regulatory advisory group update meetings.

PROGRAMS' ANNUAL ENERGY AND DEMAND SAVINGS TARGETS:

Note that targeted energy and demand savings may be shifted between programs depending on market response, changes in technology, or similar factors. These targets are based on savings at customer meters (excluding transmission and distribution line losses).

	Residential MW Savings for KS Metro				
	PY1	PY2	PY3	PY4	Total
Whole Home Efficiency	1.4	2.2	2.8	3.0	9.5
Home Energy Education	0.1	0.3	0.4	0.6	1.4
Home Demand Response	11.9	12.8	17.2	23.6	65.5
Hard-to-Reach Homes	0.5	0.6	0.8	0.8	2.6
Total	13.9	15.8	21.3	28.0	79.0

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

	Residential MWh Savings for KS Metro				
	PY1	PY2	PY3	PY4	Total
Whole Home Efficiency	4,238.0	6,662.0	7,800.7	8,338.7	27,039.3
Home Energy Education	626.6	1,575.7	2,536.1	3,188.8	7,927.2
Home Demand Response	226.7	477.6	879.5	1,505.5	3,089.3
Hard-to-Reach Homes	1,040.5	1,290.1	1,590.5	1,504.7	5,425.8
Total	6,131.9	10,005.4	12,806.7	14,537.6	43,481.6

Earnings Opportunity targets are set forth in Evergy Kansas Metro Schedule DSIM Sheet ___as approved in Case No. _____.

PROGRAM COST AND INCENTIVES:

Costs of and incentives for the Residential DSM Programs reflected herein shall be reflected in a charge titled "Energy Efficiency Rider" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the residential rate schedules.

PROGRAM COST AND INCENTIVES:

All customers taking service under said rate schedule shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder.

PROGRAM DESCRIPTIONS:

The following pages contain other descriptions and terms for the Programs being offered under this tariff.

Index _____

THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO
(Name of Issuing Utility)

SCHEDULE Section 12.01

Replacing Schedule Initial Sheet 6

EVERGY KANSAS METRO RATE AREA
(Territory to which schedule is applicable)

which was filed _____

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 6 of 2 Sheets

GENERAL TERMS AND CONDITIONS
12.01 RESIDENTIAL DEMAND-SIDE MANAGEMENT

CHANGES IN MEASURES OR INCENTIVES:

Evergy may offer the Measures contained in the Company's filing approved in Case No._____. The offering of Measures not contained within the aforesaid filing must be approved by the Commission.

Measures being offered and Incentives available to customers will be listed on Evergy's website, www.evergy.com. The Measures and Incentives being offered are subject to change.

Customers must consult www.evergy.com for the list of currently available Measures. Should a Measure or Incentive offering shown on Evergy's website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in Case No. _____ the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS
12.02 HOME DEMAND RESPONSE

PURPOSE:

The voluntary Home Demand Response Program is designed to reduce Participant load during peak periods to improve system reliability, offset forecasted system peaks that could result in future generation capacity additions, and/or provide a more economical option to generation or purchasing energy in the wholesale market.

Participant curtailment may be requested for any of these operational or economic reasons as determined by the Company. The Program accomplishes this by deploying various demand response technologies to Participants' WiFi-enabled thermostats or water heater controllers to modify the run-time of air conditioning unit(s), heat pump(s), or electric-fueled water heater(s) for a specified period of time in a Company coordinated effort to limit overall system peak load.

AVAILABILITY:

The program is available during the Program Period and available to all Evergy Kansas Metro residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

This program will consist of two components, to include (1) Smart Thermostats and (2) Water Heater DLC.For thermostat participation, customers must maintain a secure home WiFi-enabled internet service and have a working central air conditioning system or heat pump. If a WiFi-enabled thermostat is provided to customers at a discounted price, customers must agree to install the thermostat at their premise receiving electric service within fourteen (14) days of receiving the device, and keep it installed, operational, and connected to a secure home WiFi network for the duration of the program Cycle.

GENERAL TERMS AND CONDITIONS
12.02 HOME DEMAND RESPONSE

For water heater controller participation, customers must maintain a secure home WiFi-enabled internet service and have a working electric-fueled water heater. If a WiFi-enabled water heater controller is provided to customers at a discounted price, customers must agree to install the controller at their premise receiving electric service within fourteen (14) days of receiving the device, and keep it installed, operational, and connected to a secure home WiFi network for the duration of the program Cycle.

Customers must agree to not sell the device for the duration of the program. If it is found that they do, a debit will be issued on their utility bill for the Manufacturer Suggested Retail Price (MSRP) of the WiFi-enabled thermostat or water heater controller, or the value of incentive provided to the customer. Payment of that debit will be the customer's responsibility. Incented devices through the Program are only eligible for utility retail or wholesale programs.

Residential property owner's (owner occupant or landlord for a rental property) permission is required to receive a thermostat or water heater controller and/or participate in the demand response program with an existing eligible thermostat or controller. Tenant permission is required to receive a thermostat or water heater controller and/or participate in the demand response program with an existing eligible thermostat or controller if the landlord is requesting participation.

The Company reserves the right to limit program participation. The Company also reserves the right to apply minimum and/or maximum event performance requirements for incentive payment, to apply financial penalties and to terminate participation for non-compliance.

This schedule is not applicable where the Customer's electric generating and/or electric storage system(s) are registered in the wholesale market as a part of a Demand Response (DR) or Distributed Energy Resource (DER) aggregation.

GENERAL TERMS AND CONDITIONS
12.02 HOME DEMAND RESPONSE

PROGRAM PROVISIONS:

The Company will hire a Program Administrator to implement this Program. The Program Administrator will provide the necessary services to effectively implement the Program and strive to attain the energy and demand savings targets. The Company and the Program Administrator will follow a multi-faceted approach to marketing the Program.

CONTROLS AND INCENTIVES:

Participants will receive enrollment and participation incentives at a level determined by the Company, which can be found at evergy.com/residentialdr. If customers have an existing Wi-Fi enabled eligible thermostat or water heater controller, the customer may elect to enroll and participate in the demand response program. During a curtailment event, the Company or its assignee will deploy various demand response technologies to Participants' Wi-Fi enabled thermostats or water heater controllers to modify the run-time of air conditioning unit(s), heat pump(s), or electric-fueled water heater(s) for a specified period of time in a Company coordinated effort to limit overall system peak load.

The customer has the option to opt-out of any individual curtailment event by modifying the settings on their device or contacting the Company. Participants have the option of opting out of the entire program by having the Company remove the device or by returning the device to the Company. The Company reserves the right to set and modify incentive levels at any point during the program.

CURTAILMENT METHODS:

The Company may elect to deploy various types of demand response technologies including, but not limited to: (1) cycling the compressor unit(s); (2) deploying stand-alone pre-cooling strategies; (3) deploying a combination of pre-cooling and cycling strategies; (4) deploying pre-cooling and temperature modification strategies.

GENERAL TERMS AND CONDITIONS
12.02 HOME DEMAND RESPONSE

The Company reserves the right to test new DR devices at any point during the program.

NOTIFICATION:

The Company will notify Program Participants of a curtailment event via various communication channels, including, but not limited to:

1. SMS;
2. email;
3. push notifications;
4. in-app notifications;
5. device notifications

The notification can occur prior to or at the start of a curtailment event.

CURTAILMENT SEASON:

The Curtailment Season will extend from June 1 to September 30 with the ability to call emergency demand response events as needed from October 1 to May 30.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.03 HOME ENERGY EDUCATION

PURPOSE:

The Home Energy Education Program provides educational services and resources to drive energy efficiency improvements to a variety of residential customers. The Program will include online self-education tools, customer marketing, outreach communications, and in person events focused on community collaboration in areas where energy education is needed most. The underlining goals for these efforts are to educate customers on energy use and influence customers' energy behaviors.

AVAILABILITY:

The program is available during the Program Period and available to all Evergy Kansas Metro residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

The Company will assign program administrators to manage different program options and promote community engagement. The Company will hire a third-party implementer to deliver turn-key program options with responsibility for all aspects of report generation, energy and demand savings quantification, customer communications and reporting when applicable. The program consists of the below components:

Component 1: Digital Tools (Online Education and Outreach) – Offers digital tools and communication of personalized energy savings recommendations.

This will include online self-service energy assessments that are designed to educate customers on the best efficiency improvement opportunities for their home. Through this Option the Company aims to grow our customers' understanding of how their home uses energy and ultimately creating and implementing a plan to improve.

GENERAL TERMS AND CONDITIONS
12.03 HOME ENERGY EDUCATION

Component 2: Marketing for Residential Education – Will involve deployment of a consistent and holistic communication plan to help customers understand our purpose and outline how they can participate in our programs across the residential portfolio.

Component 3: Community Events – Evergy will host in-person to build trust and lasting relationships within the communities we serve. Our goal is to meet customers where they are in the community and show our commitment towards valuing individual needs. A concentrated focus will include supporting customers who may have limited access to the internet or other sources of information. We will utilize these opportunities to educate, provide information, offer energy efficient products, and assist with program enrollment.

Component 4: Rural Community Engagement – will involve enhanced customer research and outreach efforts aimed towards geographically hard to reach customers. The program is designed to create equity for customers who are often not reached by traditional program communications.

Component 5: KS LILIES – Kansas Low Income Leadership in Essential Services – this collaborative is designed to offer support in three different but very interconnected home components: Energy Efficiency, Home Health, and Structural Repairs/Integrity.

The goal of this initiative is to bring together regional partners who offer services to those in need within our communities. We will collaborate with various partners to assist in providing services to Income Eligible customers through the creation and evolution of a stronger network of support.

Component 6: Home Energy Education Report - is a behavioral energy efficiency and educational program that provides customers with energy reports explaining different household insights. The reports shall be delivered in email format and/or in paper format. The report will be composed of several modules of information to help customers understand and manage their energy use.

Some module examples are: Similar home comparison; energy comparisons over time; energy efficiency tips; and utility program promotions. The program provides information designed to influence customers' behavior to use energy more efficiently.

GENERAL TERMS AND CONDITIONS
12.03 HOME ENERGY EDUCATION

An Income-Eligible version of the report shall exist to help customers in need financially. Examples of modules for this report will include: Promotion of free direct installation of energy efficiency measures and energy assessments; low to no cost energy savings tips; utility billing assistance programs; and promotion of community assistance programs.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement, and Verification (EM&V) on the Home Energy Education Program where applicable.

GENERAL TERMS AND CONDITIONS
12.04 HARD-TO-REACH HOMES

PURPOSE:

The Hard-To-Reach Homes Program is designed to deliver long-term energy savings to income-eligible customers, specifically those in single family and multi-family housing with a focus on rural communities. This will be achieved through increasing the awareness and educational outreach to customers, property managers and owners about their energy usage, installing energy savings measures and financial incentives.

AVAILABILITY:

This program is available during the Program Period and is available to any Customer receiving service from Evergy Kansas Metro and meets the requirements as noted below.

Eligibility Requirements:

Single Family options for qualification:

1. **Location in a low-income census tract**. Location in a census tract we identify as low-income, using HUD's annually published "Qualified Census Tracts" as a starting point. – Will only be used to determine eligibility for Single Family Component's 2 & 3 (Enhanced Home Products and No Cost Energy Assessment & Free Energy Savings Kit), Component's details to follow.

2. **Income information.** Documented income information criteria that meet the Income Eligible Weatherization eligibility requirements set forth in the U.S. DOE guidelines, or may elect to use the U.S. Department of Health & Human Services (HHS) LIHEAP criteria of state-median income.

GENERAL TERMS AND CONDITIONS
12.04 HARD-TO-REACH HOMES

Multi-Family Options for Qualification:

1. **Participation in an affordable housing program.** Documented participation in a federal, state or local affordable housing program, including LIHTC, HUD, USDA, State HFA and local tax abatement for low-income properties.

2. **Location in a low-income census tract**. Location in a census tract we identify as low-income, using HUD's annually published "Qualified Census Tracts" as a starting point.

3. **Rent roll documentation**. Where at least 50 percent of units have rents affordable to households at or below 80% of area median income, as published annually by HUD.

4. **Tenant income information**. Documented tenant income information demonstrating at least 50 percent of units are rented to households meeting one of these criteria: at or below 200 percent of the Federal poverty level or at or below 80% of area median income.

5. **Participation in the Weatherization Assistance Program.** Documented information demonstrating the property is on the waiting list for, currently participating in, or has in the last five years participated in the Weatherization Assistance Program.

PROGRAM PROVISIONS:

Evergy Kansas Metro will hire a Program Administrator to implement this program and provide the necessary services to effectively manage the program and strive to attain the energy and demand savings targets. The program consists of four options for Single Family:

GENERAL TERMS AND CONDITIONS
12.04 HARD-TO-REACH HOMES

Component 1: Enhanced Home Comfort – No cost upgrades for income eligible single-family and multi-family units. With enhanced rebates for income eligible multi-family common areas for measures as described in the Whole Home Efficiency, Tariff #12.08.

This component may be delivered jointly with local natural gas partners so that eligible customers, utilizing both utilities services, may receive benefits from each respective utility. Evergy offerings are not contingent upon co-delivery.

Component 2: Enhanced Home Products – Energy Efficient products provided at no cost or higher incentive Levels for measures as described in the Whole Home Efficiency, Tariff #12.08.

Component 3: No Cost Energy Assessment and Free Energy Savings Kit – Available for income eligible single-family or multi-family units and buildings, along with customers residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed. These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed.

Component 4: Weatherization Assistance – to offer continued support of federal weatherization assistance program available to single family customers, delivered through local community action agencies, like Kansas Housing Resource Center.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. _____ are eligible for program benefits and incentives and may be offered during the Program Period. Eligible Incentives and Measures can be found at www.evergy.com.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.05 INCOME-ELIGIBLE WEATHERIZATION

PURPOSE:

This Program is intended to assist residential Customers in reducing their energy usage by weatherizing the homes of qualified Customers.

AVAILABILITY:

This Program is available to any Customer currently receiving service under any generally available residential rate schedule and who also meets the additional Customer eligibility requirements defined in the agreement between the Company and the Social Service Agency. The Company reserves the right to modify or terminate the Program at any time subject to Commission approval.

PROGRAM ADMINISTRATION:

The Program will be administered by Kansas-based Social Service Agencies that are directly involved in qualifying and assisting Customers under this Program.

Company funds provided to the Social Service Agency under this tariff are not subject to the weatherization guidelines of the United States Department of Energy (DOE) and may be utilized by Social Service Agency towards the weatherization of properties that present hazardous or health concerns and regardless of date-last weatherized considerations as long as they satisfy company established guidelines.

PROGRAM ADMINISTRATION COSTS:

Program funds cannot be used for administrative costs except those incurred by the Social Service Agency that are directly related to qualifying and assisting Customers under this Program. The amount of reimbursable administrative costs per Program year shall not exceed 13 percent of the total Program funds, as defined in the agreement between the Company and the Social Service Agency, that are utilized by the Social Service Agency within a Program year.

GENERAL TERMS AND CONDITIONS
12.05 INCOME-ELIGIBLE WEATHERIZATION

PROGRAM GRANTS:

The total amount of grants offered to a Customer will be defined in the agreement between the Company and the Social Service Agency using established criteria for Income-Eligible Weatherization. The average expenditure per Customer in each program year shall not exceed the Adjusted Average Expenditure Limit for weatherization determined by the U.S. Department of Energy that is applicable for the month that the weatherization is completed.

CUSTOMER ELIGIBILITY:

The Social Service Agency will select Customers eligible for Income-Eligible Weatherization using the following criteria: The Customer meets the eligibility requirements set forth in the Department of Energy (DOE) guidelines, or may elect to use the U.S. Department of Health & Human Services (HHS) Low-Income Energy Assistance Program (LIHEAP) criteria of state median income. In addition, applicant must meet other eligibility requirements defined in the agreement between the Company and Social Service Agency.

PROGRAM FUNDING:

The Company will provide for incentive payments, marketing costs, evaluation cost, and Program administrative and delivery costs. This Program and its costs shall be eligible for recovery under the Company's Energy Efficiency Rider, Schedule EE, subject to the provisions thereof.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measure and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

PURPOSE:

Promote the installation of energy efficient measures and create long-term energy savings and bill reduction opportunities for residential participants through an on-bill charge tied to the building of which the upgrades were installed.

AVAILABILITY:

Available for participation to qualifying residential customers receiving services under Kansas Metro residential rates.

To qualify customers must either own the home or the owner must sign an Owner Agreement agreeing to maintain the upgrades, and to not damage or remove the upgrades from the location. The owner must also agree to provide Property Notice of the benefits and obligations associated with the upgrades at the location to the next owner or customer before the sale or rental of the property. Projects that address upgrades to existing homes deemed unlikely to be habitable or to serve their intended purpose for the duration of the Company's cost recovery term will not be approved unless repairs are made that will extend the life through the Company's cost recovery period. If a building is a manufactured home, it must be built on a permanent foundation and less than 25 years old.

PROGRAM DEFINITIONS:

Energy Assessment – Detailed home walk through and performance data collection with the installation of energy saving measures provided as a direct install service, with customer education.

Participant Agreement – Agreement signed by Participants defining customer benefits and obligations, including service charges and duration of payments. If the home is a rental, this agreement will be signed by the owner
and the tenant/customer.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

Energy Efficiency Upgrade Plan – Document prepared by the Program Administrator to identify recommended upgrades.

Estimated Life – The expected duration of the savings for each individual measure or upgrade.

Owner's Agreement – A separate required document indicating the owner's obligations (if participant is not the owner of the location).

Property Notice – Notice attached to property records outlining benefits and obligations associated with the upgrades. In jurisdictions in which Evergy cannot attach a Property Notice to property records, and in any case where a subsequent tenant is executing a rental agreement, Property Notice form must be signed by successor customer or purchaser indicating they accept benefits and obligations associated with the upgrades at the location before the sale or rental of the property.

Participant – Customer who agrees to the Energy Efficiency Plan, signs the Participant Agreement, and who will be responsible for the monthly Service Charge.

Qualifying Project – Project scope of work meeting financing criteria (Project cost, including Partner/Contractor/Trade Ally pricing and fees).

Financing Charge – Monthly charge assigned to the location recovering Program costs for upgrades, fees, any required taxes, applicable cost of capital, or costs for customer-caused repairs as described in section 4.

PROVISIONS:

The Company will hire an Administrator to implement.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

The process will include the following:

- Step 1 - Home Inspection with Energy Savings Kit - Visual home inspection with direct installation of energy saving measures. Homes that do not have (health, structural or other) concerns may move forward with more in-depth data collection using blowing door and cut blaster/pressure pans to record home features and conditions.

- Step 2 - Custom Project Presented - Evergy analyzes usage history, assessment data, and Partner installation costs to determine each participant's unique qualifying scope of work. The qualifying scope of work, to be on the customer's on-bill financed amount ensures that estimated post upgrade savings over the lifetime of the measures offset the annual repayment to the utility.

  Co-Pay option: Customers may agree to pay a portion of a project's cost as an upfront payment to the Partner to qualify for the on-bill financing and/or to reduce the monthly financing charge.

- Step 3 - Upgrade Completed - If the customer agrees to custom scope of work, Evergy will facilitate installation through a network of trained Partners. The Administrator will notarize and file Property Notice with the location's property records and the Company will initiate on-bill charge 45 days following verification of installation.

Participation: To participate, a customer must: 1) request a utility analysis of cost-effective upgrades, 2) sign the Participant Agreement and 3) complete a Qualifying Project.

Location Ownership: If the participant is not the owner of the location, the owner must sign an Owner Agreement. The owner must agree to have a Property Notice attached to their property records.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

Notice: Failure to obtain the signature of a successor customer who is renting the location on the Property Notice Form, or a purchaser in jurisdictions in which the company cannot attach the Property Notice to property records indicating that the successor customer received notice, will constitute the owner's acceptance of consequential damages and permission for a tenant or purchaser to break their lease or sales agreement without penalty.

Energy History: The customer authorizes the use of energy usage history by the Administrator to true up its energy analysis and determine qualifying recommendations.

Energy Efficiency Upgrade Plans: The Company will have its Administrator perform a cost analysis and prepare an Energy Efficiency Plan (Plan) identifying recommended upgrades to improve energy efficiency and lower utility costs.

Incentive Payment: The Company will offer incentives currently available for an eligible residential Measure as defined in the Company's KEEIA Demand-Side Plan.

Net Savings: Recommended upgrades shall be limited to those where the annual Service Charges, including program fees and the utility's cost for capital, are no greater the estimated annual benefit from reduction to customer annual utility charges based on current rates in electricity and/or gas costs.

Co-Pay Option: Customers may agree to pay a portion of a project's cost as an upfront payment to the Partner to reduce the monthly financing charge. The Company will assume no responsibility for such upfront payments to the Partner.

Financing Charge: The Company will recover the costs for its investments including any fees as allowed in this tariff through a monthly Charge assigned to the location where upgrades are installed and paid by the Participant or successor occupying that location until all Company costs have been recovered. The Charge will also be set for a duration not to exceed the estimated life of the upgrades. The Charge and duration of payments will be included in the Efficiency Upgrade Agreement.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

Cost Recovery: No sooner than 45 days after approval by the Company or its Administrator, the Participant shall be billed the monthly Charge as determined by the Company. The Company will bill and collect Charges until cost recovery is complete.

Eligible Upgrades: All upgrades must have Energy Star certification, if applicable, the Administrator may seek to negotiate with contractors or upgrade suppliers extended warranties to minimize the risk of upgrade failure on behalf of customers.

Ownership of Upgrades: During the duration that Financing Charges are billed to customers at locations where upgrades have been installed, the Company will retain ownership of the installed upgrades. Upon completion of the cost recovery, ownership will be transferred to the owner of the location.

Maintenance of Upgrades: Participating customers and owner of the location (if the participant is not the owner) shall keep the installed upgrades in place, in working order, and maintained per manufacturer's instructions for the duration of the cost recovery. Participating customers shall report the failure of the installed upgrades to the Administrator or Company as soon as possible. If an upgrade fails, the Company is responsible for determining its cause and for repairing the equipment in a timely manner. If the owner, customer, or occupants caused the damage to the installed upgrades, they will reimburse the Company.

Termination of Service Charge: Once the utility's costs for the upgrades at a location have been recovered, including its cost of capital, the cost paid to the Partner to perform the work, costs for any repairs made to the upgrades, the monthly financing charge shall no longer be billed.

Vacancy: If a location at which upgrades have been installed becomes vacant for any reason and electric service is disconnected, the financing charge will be suspended until a successor customer takes occupancy. If the owner maintains electric service at the location, the owner will be billed the financing charge as part of any charges incurred while electric service is turned on.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

Extension of Financing Charge: If the monthly financing charge is reduced or suspended for any reason, once repairs have been successfully effected or service reconnected, the number of total monthly payments shall be extended until the total collected through the financing charge is equal to the Company's cost for installation as described in section 4, including costs associated with repairs, deferred payments, and missed payments as long as the current occupant is still benefiting from the upgrades.

Tied to the Location: Until cost recovery for upgrades at a location is complete or the upgrades fail as described in section 4.4, the terms of this tariff shall be binding on the metered structure or facility and any future customer who shall receive service at that location.

Disconnection for Non-Payment: As a charge paid in furtherance of an approved energy efficiency program, the Company may disconnect the metered structure for non-payment of the financing charge under the same provisions as for any other electric service.

Non-Payment: Costs associated with participants who have fallen into non-pay status before complete recovery of equipment costs have been received will be recovered as a KEEIA Program cost.

Confirm Savings Actually Exceeded Tariffed-Charge: Administrator will perform an annual analysis to evaluate weather-normalized 12-month post-upgrade Project cost savings and confirm that the financing charge remains lower than the estimated Project cost savings.

In the event the analysis indicates the financing charge exceeds the estimated project cost savings due to inaccurate savings estimates, the financing charge may be reduced or eliminated to the extent needed for the participant to realize Project savings.

GENERAL TERMS AND CONDITIONS
12.06 ON-BILL FINANCING

Repairs: Should at any future time during the billing of the financing charge the Company determines that the installed upgrades are no longer functioning as intended, and that the occupant or building owner as applicable did not damage or fail to maintain the installed upgrades, the Company shall reduce or suspend the financing charge until such time as the Company and/or its Partner can repair the upgrades. If the upgrades cannot be repaired or replaced cost effectively, the Company will waive remaining financing charges. If the Company determines the occupant or owner of the location as applicable, damaged or failed to maintain the upgrades in place as described in section 4.4, it will seek to recover all costs associated with the installation, including any fees, incentives paid to lower Project costs, and legal fees. The financing charge will continue until Company's cost recovery is complete, as long as the upgrades continue to function. The Company will not guarantee perfect operation of installed upgrades in every circumstance, and any suspension or waiver of unbilled financing charges shall not entitle the Participant or owner to any refund or cancellation of previously billed financing charges.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement, and Verification (EM&V).

Index _____

THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO
(Name of Issuing Utility)

SCHEDULE Section 12.07

Replacing Schedule Initial Sheet 1

EVERGY KANSAS METRO RATE AREA
(Territory to which schedule is applicable)

which was filed _____

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 1 Sheets

GENERAL TERMS AND CONDITIONS
12.07 RESEARCH & PILOT INCUBATOR PROGRAM

PURPOSE:

The Research & Pilot Incubator program is designed to focus on research and innovation of new programs, measures and concepts and improving current programs. The program will provide the Company with a screening and evaluation mechanism and allow flexibility to explore and research various ideas and concepts outside of the traditional DSM model to roll out for customer commercialization as deemed appropriate.

AVAILABILITY:

This program is available to any Customer receiving service under any generally available residential or commercial rate schedules offered by the Company.

PROGRAM PROVISIONS:

The Company will hire a Program Administrator to implement this program and provide the necessary services to effectively manage the program.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. 22-EKCE-XXX-TAR are eligible for program benefits and Incentives and may be offered during the Program Period. Eligible Incentives directly paid to customers and Measures can be found at www.evergy.com.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measurement, and Verification (EM&V) on this program.

Issued December (Month) 17 (Day) 2021 (Year)

Effective _____ (Month) _____ (Day) _____ (Year)

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS
12.08 WHOLE HOME EFFICIENCY

PURPOSE:

The Whole Home Efficiency (Program) is designed to provide holistic financial incentives to residential customers, including multi-family, increasing their awareness and incorporation of energy efficiency in their homes.

AVAILABILITY:

This program is available during the Program Period and is available to any Customer receiving service under any generally available residential rate scheduled offered by the Company.

PROGRAM PROVISIONS:

Evergy will hire a Program Administrator to implement the program and provide the necessary services to effectively manage the program and strive to attain the energy and demand savings targets.

The program consists of the below components:

Component 1: Home Comfort – Customers are eligible to receive incentives for installing efficient heating and cooling equipment and/or increasing air sealing and insulation in the home. Incentives for residential efficient heating systems will be only for the same as existing technology. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program.

Component 2: Home Products – Customers are eligible to receive incentives when purchasing energy efficiency products for the home such as LED bulbs, smart power strips, air purifiers and more. Additional program options include access to inefficient Appliance Recycling, distribution and planting of Shade Trees and educational energy saving School Kits. Rebates will also be available for multi-family common areas through the Whole Business Efficiency Program.

GENERAL TERMS AND CONDITIONS
12.08 WHOLE HOME EFFICIENCY

Component 3: No Cost Assessment & Discounted Energy Savings Kits – Free in person or virtual energy assessments with discounted energy efficient measures provided to residential single family and multi-family customer to educate the customer on their energy usage and provide instant energy savings.

ELIGIBLE MEASURES AND INCENTIVES:

Measures filed in Case No. 22-EKCE-XXX-TAR are eligible for program benefits and incentives and may be offered during the Program Period.

EVALUATION:

The Company will hire a third-party evaluator to perform an Evaluation, Measure and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

PURPOSE:

The Business Demand-Side Management (DSM) Programs (Programs) are designed to encourage business customers to proactively use energy in such a way as to reduce consumption of electricity or to shift consumption from times of peak demand to times of non-peak demand. These Programs are offered in accordance with the Kansas Energy Efficiency Investment Act (KEEIA), Kansas Statutes Annotated (K.S.A.) 66-1283.

AVAILABILITY:

Except as otherwise provided in the terms governing a specific program, these Programs are available to any of business customers in Evergy's Kansas Metro service area being served under any business rate schedule. Unless otherwise provided for in the tariff sheets or schedules governing a specific program, customers may participate in multiple programs. The Company reserves the right to discontinue the entire KEEIA portfolio, if the Company determines that implementation of such programs is no longer reasonable due to changed factors or circumstances that have materially negatively impacted the economic viability of such programs as determined by the Company, upon no less than thirty days' notice to the Commission.

DEFINITIONS:

Unless otherwise defined, terms used in tariff sheets or schedules have the following meanings:

Applicant – A customer who has submitted a program application or has had a program application submitted on their behalf by an agent or trade ally.

Business Program - An energy efficiency program that is available to a non-residential customer receiving electric service.

Deemed Savings Table - A list of measures derived from the Company's filed TRM that characterizes associated gross energy and demand savings with specific measure parameters where available.

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

Energy Efficiency - Measures that reduce the amount of electricity required to achieve a given end use.

Energy Efficiency Rider (EER) - A mechanism approved by the Commission in Evergy's filing for demand-side program approval in Case No._____.

Incentive - Any consideration provided by Evergy directly or through the Program Administrator and Program Partners, including buydowns, markdowns, rebates, bill credits, payment to third parties, direct installations, giveaways and education, which encourages the adoption of Measures.

Long-Lead Project - A project committed to by a Customer, accepted by the Company, and a signed commitment offer received by the program administrator by the last day of the cycle period that will require a date after the end of the cycle period, but no later than 12 months following the cycle end to certify completion.

Measure - An end-use, Energy Efficiency, and/or Demand Response Measure described for each Program in the Technical Resource Manual (TRM).

Participant - An energy related decision maker who implements one or more end use measures as a direct result of a demand side program.

Program Administrator – The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.

Program Partner – A retailer, distributor or other service provider that Evergy Kansas Metro or the Program Administrator has approved to provide specific program services through execution of a Evergy Kansas Metro approved service agreement.

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

Program Period – The period from January 1, 2023 through December 31, 2026, unless sooner terminated under the term provision of this tariff. Programs may have slightly earlier termination dates for certain activities, as noted on the Evergy Kansas Metro website – www.evergy.com.

Project – One or more Measures proposed by an Applicant in a single application.

Trade Ally- An independent contractor that the Company or the Program Administrator has approved to provide specific program services through execution of a Company approved service agreement.

Total Resource Cost (TRC) Test – A test of the cost-effectiveness of demand-side programs that compares the avoided utility costs to the sum of all incremental costs of end-use measures that are implemented due to the program (including both Evergy Kansas Metro and Participant.

TERM:

These tariff sheets and the tariff sheets reflecting each specific business DSM program shall be effective for four years from the effective date of the tariff sheets, unless another termination date is approved by the Commission. If the Programs are terminated prior to the end of the Program Period, only Incentives for qualifying Measures that have been preapproved or installed prior to the Programs' termination will be provided to the customer.

DESCRIPTION:

The reduction in energy consumption or shift in peak demand will be accomplished through the following Programs:

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

- Whole Business Efficiency
- Hard-to-Reach Businesses
- Business Demand Response
- Business Energy Education
- Pilots Incubator

Program details regarding the interaction between Evergy Kansas Metro or Program Administrators and Participants, such as Incentives paid directly to Participants, available Measures, availability of the Program, eligibility, and application and completion requirements may be adjusted through the change process as presented below.

Those details, additional details on each program, and other information such as process flows, application instructions, and application forms will be provided on the Evergy Kansas Metro website, www.evergy.com.

PROGRAM CHANGE & PILOT COMMERCIALIZATION/ROLL-OUT PROCESS:

To ensure flexibility in the approved KEEIA Evergy Kansas Metro program's and have the ability to commercialize pilot concepts, those that are not 'Program Level' – the Company will incorporate the follow the below process:

1. Discuss proposed change's' with Program Administrator;
2. Discuss proposed change's' with Evaluator;
3. Analyze impact on program and portfolio (cost-effectiveness, goal achievement, etc.)
4. Inform the Staff and other Stakeholders of the roll-out date at least 30 days prior to launch, providing the analysis that was performed and Evergy will consider recommendations from them that are received within the roll-out timeline;
5. Take timely received recommendations into account and incorporate them where Evergy believes it is appropriate to do so;

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

6. Notify and train customer contact personnel (Customer Service Representatives, Energy Consultants, Business Center) of the changes;
7. Make changes to forms and promotional materials;
8. Update program website;
9. File updated web pages and, if appropriate, updated list of Measures and Incentives amounts in Case No. _____; and
10. Inform customer's, trade allies, etc. as appropriate

For pilots that are 'Program Level', Evergy will follow the standard tariff and program description filing process for approval to commercialize/roll-out.

Evergy Kansas Metro will discuss and provide information during ongoing program and portfolio progress at regular regulatory advisory group update meetings.

PROGRAMS' ANNUAL ENERGY AND DEMAND SAVINGS TARGETS:

Note that targeted energy and demand savings may be shifted between programs depending on market response, changes in technology, or similar factors. These targets are based on savings at customer meters (excluding transmission and distribution line losses).

	Business MWh Savings for KS Metro				
	PY1	PY2	PY3	PY4	Total
Whole Business Efficiency	7,152.7	10,834.1	11,403.4	11,051.4	40,441.6
Business Energy Education	66.1	165.6	231.5	289.0	752.2
Business Demand Response	-	-	-	-	-
Hard-to-Reach Businesses	2,603.7	3,051.8	3,188.5	3,175.1	12,019.0
Total	9,822.5	14,051.4	14,823.4	14,515.5	53,212.8

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

	Business MW Savings for KS Metro				
	PY1	PY2	PY3	PY4	Total
Whole Business Efficiency	2.6	3.8	3.7	3.5	13.5
Business Energy Education	0.0	0.0	0.1	0.1	0.2
Business Demand Response	3.5	7.9	14.0	23.0	48.5
Hard-to-Reach Businesses	0.6	0.7	0.7	0.7	2.7
Total	6.7	12.4	18.6	27.3	64.9

Earnings Opportunity targets are set forth in Evergy Kansas Metro Schedule DSIM Sheet ____ as approved in Case No. _____.

PROGRAM COST AND INCENTIVES:

Costs of and incentives for the business DSM Programs reflected herein shall be reflected in a charge titled "Energy Efficiency Rider" appearing as a separate line item on customers' bills and applied to customers' bills as a per kilowatt-hour charge as specified in the business rate schedules. All customers taking service under said rate schedule shall pay the charge regardless of whether a particular customer utilizes a demand-side program available hereunder.

PROGRAM DESCRIPTIONS:

The following pages contain other descriptions and terms for the Programs being offered under this tariff.

GENERAL TERMS AND CONDITIONS
12.09 BUSINESS DEMAND-SIDE MANAGEMENT

CHANGES IN MEASURES OR INCENTIVES:

Evergy may offer the Measures contained in the Company's filing approved in Case No. _____. The offering of Measures not contained within the aforesaid filing must be approved by the Commission. Measures being offered and Incentives available to customers will be listed on Evergy's website, www.evergy.com. The Measures and Incentives being offered are subject to change. Customers must consult www.evergy.com for the list of currently available Measures. Should a Measure or Incentive offering shown on Evergy's website differ from the corresponding Measure or Incentive offering shown in the currently effective notice filed in Case No. _____ the stated Measure or Incentive offering as shown in the currently effective notice shall govern.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

GENERAL TERMS AND CONDITIONS
12.10 BUSINESS DEMAND RESPONSE PROGRAM

PURPOSE:

Business Demand Response ("Program" or "BDR") is designed to reduce Participant load during peak periods to improve system reliability, offset forecasted system peaks that could result in future generation capacity additions, and/or provide a more economical option to generation or purchasing energy in the wholesale market. Participant curtailment may be requested for any of these operational or economic reasons as determined by the Company.

AVAILABILITY:

This Program is available during the Program Period, and is available to all customers in the classes identified in the Business Demand-Side Management section that also meet Program provisions. Participants must show economic and technical feasibility for measurable and verifiable load curtailment during the Curtailment Season of June 1 to September 30 and within designated Curtailment Hours of 12:00 p.m. to 8:00 p.m., Monday through Friday excluding Holidays. The Company reserves the right to limit the total Curtailable Load determined under this Program. The Company will determine the most beneficial timing and length of curtailment events during the curtailment season, is not required to curtail all Participants simultaneously, and may elect to only call individual participants and/or stagger Participants as deemed appropriate. The Company also reserves the right to apply minimum and/or maximum event performance requirements for incentive payment, to apply financial bonuses or penalties and to terminate Participation Agreements for non-compliance.

The Company reserves the right to curtail some or all Participants year-round if needed. This off-season curtailment would be utilized during emergency situations locally or regionally. Off-season participation is voluntary with participant payment at the discretion of the Company outlined in the Participation Agreements.

GENERAL TERMS AND CONDITIONS
12.10 BUSINESS DEMAND RESPONSE PROGRAM

The Company will engage a third-party Administrator to implement all recruitment, enrollment and daily operations for the Program and manage Aggregators. A Customer may participate directly through the Program Administrator ("Administrator") or a Company-approved Aggregator ("Aggregator"). An aggregator is a curtailment service provider, appointed by a customer to act on behalf of said Customer with respect to all aspects of the Program, including but not limited to: a) the receipt of notices from the Company under this Program; and b) the receipt of incentive payments from the Company. The Aggregator will be responsible for establishing independent business to business (B:B) contracts and administering the participation of said customer. The Aggregator is fully responsible for fulfillment of these B:B customer contracts. Contracts between Aggregator and their enrolled customers are not limited to Program provisions.

For the purpose of this program only, and at the Company's option, a Participant with multiple accounts may request that some or all of its accounts be aggregated in one Participation Agreement. The aggregated Participant account will be treated as a single account for purposes of calculating potential Program incentive payments. The Aggregator is responsible for all of their independent B:B customer contracts; no minimum customer account requirements apply. Aggregator must maintain a minimum aggregated load as stated in their Aggregator Participation Agreement to maintain Program eligibility.

This schedule is not applicable where the Customer's electric generating and/or electric storage system(s) are registered in the wholesale market as a part of a Demand Response (DR) or Distributed Energy Resource (DER) aggregation.

PROGRAM PROVISIONS:

This Program may be executed by manual and/or automated demand response methods:

GENERAL TERMS AND CONDITIONS
12.10 BUSINESS DEMAND RESPONSE PROGRAM

1. Manual Demand Response (DR)

A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls directly with the Company Program Administrator or Aggregator to participate. The Company or Program Administrator evaluates a Customer's metered usage data from the most recent Curtailment Season and gathers site specific information from the Participant to establish their curtailment plan and estimated associated curtailable load (kW). The Participant/Aggregator enrolls this curtailable load in the Program by executing their Participation Agreement. The Participant receives an event notice from the Company in advance of scheduled curtailment events and they manually execute their facility curtailment plan to curtail at least their enrolled curtailable load for the duration of the curtailment event.

2. Automated Demand Response (ADR)

A Customer with load curtailment potential during the Curtailment Season and designated Curtailment hours enrolls with the Administrator or Aggregator. But, rather than manual execution of their load curtailment plan, the Participant's building/energy management system (BMS/EMS) or facility automation system is used to execute their curtailment plan. The Participant or Aggregator receives the curtailment event notice from the Company and integrates the utility's event calling system with their EMS. This connection will automate pre-programmed usage adjustments to respond to demand response events.

PARTICIPATION AGREEMENTS:

There will be two versions of Program Participation Agreements ("Agreement"). Customers enrolling with the Administrator will have a customer Agreement between the customer and the Program.

Aggregators will have an aggregator Agreement between the Program and the Aggregator. Multi-year participation Agreements will be re-evaluated annually or at any time the Company has data indicating the terms of the participation Agreement cannot be fulfilled by the Participant.

GENERAL TERMS AND CONDITIONS
12.10 BUSINESS DEMAND RESPONSE PROGRAM

EVENT PERFORMANCE AND INCENTIVES:

The Company will employ a calculated baseline load (CBL) methodology to determine participant demand savings associated with a demand response curtailment event. A CBL approach applies a model or algorithm to develop a customer-specific baseline for each day from historic metered usage data that is then used to forecast load impacts for each hour of the event absent a curtailment event. This baseline is calibrated to best match recent operational and/or weather patterns. This baseline is then compared to the actual metered average hourly demand during the curtailment event. The difference between the forecasted hourly baseline and the actual metered hourly usage during the event equals the hourly kW impact of the event. All kW will be calculated as a whole number. The Seasonal hourly average kW achieved divided by the kW enrolled is the Participant's % kW achieved. The Company will pay the Participant or Aggregator for their achieved Seasonal average percent of their enrolled Curtailable kW load within the established floor and cap as detailed in their Agreement with the Company or Aggregator.

The Company will communicate with Participants and Aggregators in advance of a curtailment event to increase their ability to successfully participate. Customer and Aggregator Agreements will contain specific information for curtailment specifications that fall within the following limits.

Maximum number of events per season - 10;
Minimum number of events per season – 1;
Maximum duration of an event - 8 hours;
Minimum notification prior to an event - 1 hour

Evaluation:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.11 BUSINESS ENERGY EDUCATION

PURPOSE:

The Business Energy Education Program provides educational services and resources to drive energy efficiency improvements to a variety of business customers. The program will include online tools to help customers identify energy savings opportunities, as well as marketing efforts to promote and educate customers and trade allies. The program will also include Building Operator Certification courses.

AVAILABILITY:

This program is available during the Program Period and available to all Evergy Kansas Metro non-residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

The Company will assign program administrators to manage different program components and promote community engagement. The Company will hire a third-party implementer to deliver turn-key program options with responsibility for all aspects of report generation, energy and demand savings quantification, customer communications and reporting when applicable. The program consists of the below components:

Component 1: Small Business Behavioral (Online Education and Outreach) – Offers digital tools and communication of personalized energy savings recommendations. This will include online self-service education tools that are customizable by business type to educate customers on the best improvement opportunities for their business. This component uses targeted energy awareness outreach to change behavior and focuses on small businesses that typically have limited resources in identifying and implementing energy savings opportunities.

Component 2: Customer Facing Business Marketing - Will involve deployment of a consistent and holistic communication plan to help customers understand our purpose and outline how they can participate in our programs across the business portfolio.

GENERAL TERMS AND CONDITIONS
12.11 BUSINESS ENERGY EDUCATION

Component 3: Community Events - Will be hosted in-person by Evergy to build trust and lasting relationships within the communities we serve. Our goal is to meet customers where they are in the community and show our commitment towards valuing individual needs. A concentrated focus will include supporting small business customers. We will utilize these opportunities to educate, provide information and assist with program enrollment.

Component 4: Rural Community Engagement - Will involve enhanced customer research and outreach efforts aimed towards geographically hard to reach customers. The program is designed to create equity for customers who are often not reached by traditional program communications.

Component 5: Building Operator Education – Utilize the Building Operator Certification® (BOC), which is the leading training and certification program for building engineers and maintenance personnel. Courses will include both Level I (Building Systems Maintenance) and Level II (Improving Building Operational Performance).

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.12 HARD-TO-REACH BUSINESSES

PURPOSE:

The Hard-to-Reach Business Program provides enhanced incentive values and services to small business and nonprofit customers. Projects can include new construction and retrofits and can include, but not limited to lighting, lighting controls, and HVAC (Heating, Ventilation and Air Conditioning). The program will also include a direct install component and free energy assessments.

AVAILABILITY:

This program is available during the Program Period and available to all Kansas non-residential customers receiving electric that also meet the program provisions below. Customers must also be deemed as a “hard to reach” customer which will be measured by annual usage (less than 1.5 million kWh and/or 100 kW). The program will also include eligibility for nonprofit organizations who meet the following requirements –

- Organizations in 501(c)3 status and in good standing
- Organization must serve low-income individuals and families
- Organization must own the facility and be responsible for paying the energy bills

PROGRAM PROVISIONS:

This program provides an incentive for installing new or replacing existing equipment with qualifying high efficiency equipment, through the following options –

- Standard - Provides fixed incentives for specific energy efficient measures with pre-set savings values.

- Custom - Provides incentives for qualifying complex or unique projects that do not fall under Standard, with incentives determined on a $/kW or $kWh basis.

GENERAL TERMS AND CONDITIONS
12.12 HARD-TO-REACH BUSINESSES

No Cost Energy Assessment and Free Energy Savings Kits – Free energy assessments and direct install kits for eligible customers.

Custom measures will require pre-approval by the Program Administrator before the project start date to be eligible for a rebate; Standard measures above a designated incentive amount may also require pre-approval. Customer applications will be evaluated, and the rebates will be distributed on a first-come basis according to the date of the customer's application. Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. Incentives will be provided to customers through a check or bill credit, depending on customer preference

ELIGIBLE MEASURES AND INCENTIVES:

Program encompasses Business Products, HVACR, Mechanical, or New Construction Options, as well as Direct Install and Energy Assessment services for Small Business and Nonprofit business customers. This includes, but is not limited to lighting, HVAC systems, motors, pumps, air compressors or other qualifying equipment or systems with higher energy efficiency equipment or systems.

Program options include:

1. Enhanced Business Comfort – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #12.14.

2. Enhanced Business Operational – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #12.14.

GENERAL TERMS AND CONDITIONS
12.12 HARD-TO-REACH BUSINESSES

3. Enhanced Business Products – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #12.14.

4. Enhanced New Construction – increased rebates or no cost upgrades for small businesses and nonprofits above those noted in the Whole Business Efficiency Program, Tariff #12.14.

5. No Cost Energy Assessment and Free Energy Savings Kits – available for small businesses and nonprofits residing in rural areas. When location makes it difficult to send support staff, the kits with the needed items identified during a virtual assessment will be mailed.

These kits also include a customized report summarizing the assessment findings with additional opportunities for assistance as needed. A pre-determined capped amount may be applied for direct install projects, with additional incentives available through other components once the cap is met.

Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. The maximum amount of each rebate will be calculated as a flat rate in dollars per coincident peak kW or cents per kWh saved, up to the customer annual maximum.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

PURPOSE:

The Market Based Demand Response Program (MBDR) offers qualified business demand response (BDR) participants an additional opportunity to reduce their electric costs through participation with Evergy in the wholesale Southwest Power Pool (SPP) energy market by providing load reduction during high price periods in the market and declared emergency events. Participation in this Program authorizes Evergy to offer the Customer's Curtailment Amount in the SPP Integrated Marketplace and to compensate Participants based on any SPP settlement payments.

AVAILABILITY:

This Program is available to BDR participants whose demand response (DR) resources are compliant with the SPP tariff and SPP Marketplace Protocol requirements and can provide sustainable load reduction during a Curtailment Event. The Participant's DR Resources will be registered in the SPP Day Ahead and/or Real Time Energy Market as either Bulk Demand Response Resources or Dispatchable Demand Response Resources.

The technical and operational requirements for each DR Resource type are outlined in the MBDR Contract and the SPP Marketplace Protocol, as it may change from time-to-time.

DEFINITIONS:

1. Aggregation - the process of combining of multiple DR Curtailment Amounts into a single Curtailment Amount.

2. Curtailment Amount - the difference between the Participant's HCLP and the actual Participant load during each hour of a Curtailment event.

3. Curtailment Event - when the Company instructs Participants to curtail load for a defined period of time.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

4. Customer Representative – an entity that the Customer has designated to facilitate all or some of the customer offers, notifications and transactions under this program
5. Demand Response – the ability for a Participant to engage DR Resources and reduce its Load when so instructed.
6. DR Resource (DRR) – a controllable load, including behind the meter generation and/or storage, that can reduce the Customer's withdrawal of energy from the electric grid.
7. Hourly Customer Load Profile (HCLP) – an hourly estimate of the Participant's electric consumption amount absent load curtailment for a DR event.
8. Incentive – Any consideration provided by Evergy directly or through the Program Administrator, including in the form of cash, bill credit, payment to third party, or public education programs, which encourages the adoption of customer behaviors or measures.
9. Marginal Forgone Retail Rate (MFRR) – The amount forgone by the Company for the energy not consumed by the Customer at the full marginal retail rate.
10. Participant – The end-use Customer or Customer Representative.
11. Program Administrator – The entity selected by Evergy to provide program design, promotion, administration, implementation, and delivery of services.
12. Program Partner – A service provider that Evergy or the Program Administrator has approved

CURTAILMENT SEASON:

This program's Curtailment Season will be annually from January 1 through December 31.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

CONTRACTOR CURTAILMENT AMOUNT:

The Participant's MBDR Contract will specify the agreed upon Contract Curtailment Amount and shall be the same Curtailment Amount for each month of the contract.

Under no circumstances shall the Contract Curtailment Amount be less than 100 kW and not more than the Participant's BDR Contract Curtailment Amount. The Curtailment Amount is calculated as the difference between the Participant's HCLP and the Participant actual average load during each hour of a DR event.

AGGREGATION OF BDR CURTAILMENT AMOUNTS:

For the purposes of this program, and at the Company's option, a Participant with service at multiple premise locations may request that the BDR Curtailment Amounts from some, or all, of the Participants premises be aggregated to achieve the minimum MBDR Contract Curtailment Amount. Availability of the Participant premise aggregation is further subject to the technical feasibility of the installation of required Company metering and communication equipment and SPP requirements.

METERING AND COMMUNICATION REQUIREMENTS:

Participants must have Company installed metering capable of providing the interval load metering and telemetry required by SPP on each participating service point. The Participant shall be responsible for the incremental cost of any additional Company metering, communications or control equipment required beyond that which is normally provided.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

DAILY MARKET PARTICIPATION:

A Participant shall have the option of market participation on any particular day except for days on which the Company has scheduled a potential BDR Curtailment Event. Participant Curtailable Amounts will be included in the daily Day Ahead Energy Offers by the Company to SPP unless the Participant specifies that it does not wish to participate on a specific day. Upon enrollment, the Participant will establish a default Offer for their Contract Curtailment Amount that will remain valid until updated or declared unavailable by the Participant.

PARTICIPANT LOAD REDUCTION OBLIGATION:

The Company will notify the Participant of all Offers accepted by SPP. The Participant shall be responsible for acting upon a cleared offer and is obligated to reduce load in accordance with the SPP instructions. Deviations in Curtailment Amounts above or below the dispatch instruction amount may result in charges as described in the MBDR contract. Any such charges will be assessed to the Participant.

PARTICIPANT COMPENSATION:

Based upon the Participant's performance related to SPP-cleared offers, SPP will calculate the settlement payment for each market operating day. The value of the settlement payment (credit or debit) will take into consideration the: (1) Participant's specified offer parameters; (2) SPP cleared offers and dispatch instructions (3) actual DR Load Curtailment Amount; and (4) Locational Marginal Price associated with the Participants DR Resource. Failure to provide the committed level of load reduction will result in charges consistent with the provisions in the applicable SPP Market Protocol manual. The Company will remit to the Participant the net proceeds (SPP settlement payments less administrative fees and charges) as a credit (or charge) on the Participant's monthly bill. Depending on the Participant's billing cycle and when credits or debits are issued within the month, posting of the credits or debits to the Participant's bill may be delayed.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

PARTICIPANT PARTICIPATION FEES:

Participants shall be assessed the following program fees and charges as specified in the Participant's MBDR Contract

1. DR Resource Market Registration Fee – a one-time fee to cover the administrative cost of registering the DRR with the SPP and determining the viability of the Participant's DR Load Curtailment Amount.

2. DR Resource Registration Modification Fee – A per occurrence fee, to cover the administrative cost of changing the DRR registration with SPP and determining the viability of the Participant's new DR Load Curtailment Amount.

3. Monthly Meter Service Charge - a Monthly Meter Service Charge, per meter, to offset the ongoing program administration costs, including increased meter data reporting frequency, telemetry, communications, meter data aggregation, and HCLP determination.

4. Market Settlement Fees - The marginal forgone retail rate (MFRR) plus a percentage of the net SPP market settlements to offset ongoing program transaction costs including communicating SPP dispatch instructions, processing and tracking settlements and other transaction related costs.

The Company shall bill the Participant the following administrative fees and charges.

GENERAL TERMS AND CONDITIONS
12.13 MARKET BASED DEMAND RESPONSE PROGRAM

Program Participation Fees and Charges	Frequency
Metering, Communication, and Other Direct Costs	Per Occurrence
DR Resource Market Registration Fee	One Time per Resource
DR Resource Market Registration Modification Fee	Per Occurrence
Monthly Meter Service Charge	Per Meter
Market Settlement Fees	Bids Cleared by SPP

GENERAL TERMS AND CONDITIONS
12.14 WHOLE BUSINESS EFFICIENCY

PURPOSE:

The Whole Business Efficiency program is designed to encourage more effective utilization of electric energy by offering incentives for energy efficiency improvements which are available at the time of new equipment purchases, facility modernization, and industrial process improvement. Projects can include new construction and retrofits and can include, but not limited to, HVAC and lighting equipment, business envelope, and other mechanical measures.

AVAILABILITY:

This program is available during the Program Period and available to all Kansas non-residential customers receiving electric service that also meet the program provisions below.

PROGRAM PROVISIONS:

This program provides an incentive for installing new or replacing existing equipment with qualifying high efficiency equipment, through the following options –

Standard - Provides fixed incentives for specific energy efficient measures with pre-set savings values.

Custom – Provides incentives for qualifying complex or unique projects that do not fall under Standard, with incentives determined on a $/kW or $kWh basis.

To become a Participant in the Program customers must request a rebate for a project by submitting an application through the Evergy website. Custom measures will require pre-approval by the Program Administrator before the project start date to be eligible for a rebate; Standard measures above a designated incentive amount may also require pre-approval. Customer applications will be evaluated, and the rebates will be distributed on a first-come basis according to the date of the customer's application. Rebate applications for different energy saving measures at the same facility may be submitted.

GENERAL TERMS AND CONDITIONS
12.14 WHOLE BUSINESS EFFICIENCY

PROGRAM PROVISIONS:

An entity with multiple facilities may participate for each facility by submitting an application for each facility. Incentives will be provided to customers through a check or bill credit, depending on customer preference. Pre-determined project and annual incentive caps may be established, with additional incentives available at a lower rate once the cap is met.

ELIGIBLE MEASURES AND INCENTIVES:

Standard Measures filed in a Technical Resource Manual agreed to on an annual basis are eligible for program benefits and incentives and may be offered during the Program Period. The Program encompasses Business Products, HVACR, Mechanical, or New Construction Options, as well as operations and maintenance measures under Retro-Commissioning. Measures include, but are not limited to, the following equipment types:

- **Lighting and Controls**
- **Motors, Pumps and Variable Frequency Drives**
- **Air Compressors**
- **HVAC (Heating, Ventilation and Air-Conditioning)**
- **Food Service and Refrigeration**

Eligible Incentives directly paid to customers and Measures can be found at www.evergy.com.

The Program includes the following components:

1. Business Comfort: Building comfort measures such as insulation and air sealing improvements, door enhancements and other custom measures. Also to include air conditioner and heating equipment, and controls projects, including tune-ups and other behavioral strategies.

GENERAL TERMS AND CONDITIONS
12.14 WHOLE BUSINESS EFFICIENCY

2. Business Operational: Refrigeration, food service equipment, ventilation, laundry, or other mechanical upgrades to save on energy costs. This includes a Retro-Commissioning program, which provides incentives for operations and maintenance measures identified through a Retro-Commissioning study.

3. Business Products: Rebates for LEDs, control equipment and other products through midstream, or the custom or standard rebate channel for all business customers.

4. New Construction: Provides incentives for early design assistance and qualifying complex or unique new construction projects, with rebates determined on a $/kW or $/kWh bases for incremental savings above code.

Rebate applications for different energy saving measures at the same facility may be submitted. An entity with multiple facilities may participate for each facility by submitting an application for each facility. The maximum amount of each rebate will be calculated as a flat rate in dollars per coincident peak kW or cents per kWh saved.

EVALUATION:

The Company will hire a third-party evaluator to perform Evaluation, Measurement and Verification (EM&V) on this Program.

5.

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
5	Business Demand Response	DR Auto DR and Manual DLC	1	C&I	All		Per participant	1.00	$0.00			-	
6	Whole Business Efficiency	Advanced Water Heater Controls	2	Industrial	All		Per participant	0.80	$206.11			2,461.6368	
7	Whole Business Efficiency	Air Conditioner Tune-up	3	C&I	Cooling		per ton	0.90	$7.99	IL TRM v8, 4.4.1		53.2608	IL TRM v8, 4.4.1
8	Whole Business Efficiency	Air Curtains (Dryer)	4	Industrial	All		Per participant	0.80	$224.95			12,472.6994	
9	Whole Business Efficiency	Air Curtains (Oven)	5	Industrial	All		Per participant	0.80	$2,251.78			12,472.6994	
10	Whole Business Efficiency	Air-Cooled Chiller	6	C&I	Cooling		per ton	0.90	$378.66	IL TRM v9	199	700.8063	IL TRM V9 vol2
11	Whole Business Efficiency	Air-Source Heat Pump =240,000 and <760,000 Btu/h	7	C&I	HVAC		per ton	0.90	$112.63	IL TRM v6 vol2	165	125.7765	Calculated Value
12	Whole Business Efficiency	Air-Source Heat Pump =65,000 and <135,000 Btu/h	8	C&I	HVAC		per ton	0.90	$112.63	IL TRM v6 vol2	165	382.2421	Calculated Value
13	Whole Business Efficiency	ASHP >240kbtu	9	C&I	HVAC		per ton	0.90	$112.63	IL TRM v6 vol2	165	157.2065	Calculated Value
14	Whole Business Efficiency	ASHP 65 - 135kbtu_Replacing ER	10	C&I	HVAC		per ton	0.90	$462.25	IL TRM v6 vol2	165	5,798.3035	Calculated Value
15	Whole Business Efficiency	Automated Temperature Control	11	Industrial	All		Per participant	0.80	$537.34			6,382.1805	
16	Whole Business Efficiency	Automatic door closer for walk-in freezers	12	C&I	Refrigeration	Automatic D	per walk-in cooler/fi	0.85	$156.82	IL TRM v9	571	1,938.8665	IL TRM v9
17	Whole Business Efficiency	Automatic door closer for walk-in coolers	13	C&I	Refrigeration	Automatic D	per walk-in cooler/fi	0.85	$156.82	IL TRM v9	571	792.5232	IL TRM v9
18	Whole Business Efficiency	Business Custom - Cooking	14	C&I	All		Per Project	0.80	$13,376.44			52,985.7465	
19	Whole Business Efficiency	Business Custom - HVAC	15	C&I	All		Per Project	0.90	$108,308.45			184,049.0520	
20	Whole Business Efficiency	Business Custom - Lighting	16	C&I	All		Per Project	0.85	$33,493.41			120,042.3581	
21	Whole Business Efficiency	Business Custom - Misc	17	C&I	All		Per Project	0.80	$30,022.26			123,928.3948	
22	Whole Business Efficiency	Business Custom - New Construction	18	C&I	All		Per Project	0.80	$2,759.52			25,347.5629	
23	Whole Business Efficiency	Business Custom - Refrigeration	19	C&I	All		Per Project	0.90	$17,509.37			86,550.5348	
24	Whole Business Efficiency	Business Custom - Retrocomisioning	20	C&I	All		Per Project	0.85	$1,194.60			586.0381	
25	Whole Business Efficiency	CAC >240 kBtuh_CEE Advanced Tier	21	C&I	HVAC		per ton	0.90	$37.83	IL TRM v6 vol2	203	187.6321	Calculated Value
26	Whole Business Efficiency	CAC >240 kBtuh_CEE Tier 2	22	C&I	HVAC		per ton	0.90	$37.83	IL TRM v6 vol2	203	119.7918	Calculated Value
27	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Air Cooled	23	C&I	Cooling		per ton	0.90	$29.72	FOE Cooling System Tune-Up,ID 2666-2		200.3288	Calculated
28	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Water Cooled	24	C&I	Cooling		per ton	0.90	$56.67	FOE Cooling System Tune-Up,ID 2666-2		381.9888	Calculated
29	Whole Business Efficiency	Demand Controlled Ventillation (Electric Heat)	25	C&I	HVAC		per sq ft	0.80	$0.15	Program Tracking Data		1.1647	Calculated Value
30	Whole Business Efficiency	Demand Controlled Ventillation (Heat Pump)	26	C&I	HVAC		per sq ft	0.80	$0.11	Program Tracking Data		0.8138	Calculated Value
31	Whole Business Efficiency	Demand-Controlled Ventilation	27	C&I	HVAC		Per participant	0.64	$4,555.51	Program Tracking Data		12,214.7529	Calculated Value
32	Whole Business Efficiency	Destratification Fans	28	Industrial	All		Per participant	0.64	$644.35			5,056.6732	
33	Whole Business Efficiency	Door heater controls for cooler (Conductivity-based cont	29	Small C&I	Refrigeration		per circuit	0.85	$200.00	IL TRM v6 vol2	439	5,622.1622	Calculated Value
34	Whole Business Efficiency	Door heater controls for cooler (Humidity-based control	30	Small C&I	Refrigeration		per circuit	0.85	$300.00	IL TRM v6 vol2	439	4,417.4471	Calculated Value
35	Whole Business Efficiency	Door heater controls for freezer (Conductivity-based cor	31	Small C&I	Refrigeration		per circuit	0.85	$200.00	IL TRM v6 vol2	439	13,676.3554	Calculated Value
36	Whole Business Efficiency	Door heater controls for freezer (Humidity-based contro	32	Small C&I	Refrigeration		per circuit	0.85	$300.00	IL TRM v6 vol2	439	10,745.7692	Calculated Value
37	Whole Business Efficiency	Doors, Covers and Curtains	33	Industrial	All		Per participant	0.80	$653.24			8,281.8169	
38	Whole Business Efficiency	ECM Motors Walk-In Coolers & Freezers	34	C&I	Refrigeration		per motor	0.90	$290.29	IL TRM v5 vol2	448	1,507.6446	IL TRM v7 vol2
39	Whole Business Efficiency	Efficient Lighting Design	35	Industrial	All		Per participant	0.64	$1,352.70			5,182.0288	
40	Whole Business Efficiency	Eliminate Air Leaks	36	Industrial	All		Per participant	0.64	$356.36			4,921.1043	
41	Whole Business Efficiency	Energy Monitoring and Process Controls (Sub-metering,	37	Industrial	All		Per participant	0.64	$950.46			5,003.3090	
42	Whole Business Efficiency	ENERGY STAR Beverage Machine w/ software	38	C&I	Refrigeration	kWh savings	per machine	0.90	$500.00	IL TRM v6 vol2	445	1,639.1391	IL TRM v6 vol2
43	Whole Business Efficiency	ENERGY STAR Beverage Machine w/o software	39	C&I	Refrigeration	kWh savings	per machine	0.90	$500.00	IL TRM v6 vol2	445	1,165.7143	IL TRM v6 vol2
44	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (0 < V <13)	40	C&I	Cooking		per container	0.80	$745.76	Ameren MO TRM 2018	48	2,100.3158	Calculated Value
45	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (13 = V <28)	41	C&I	Cooking		per container	0.80	$1,117.52	Ameren MO TRM 2018	48	3,147.2843	Calculated Value
46	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (28 = V)	42	C&I	Cooking		per container	0.80	$2,636.71	Ameren MO TRM 2018	48	7,425.7946	Calculated Value
47	Whole Business Efficiency	ENERGY STAR Laptop	43	C&I	Office Equipment		per laptop	0.85	$5.00	Ameren TRM 2.7.1 Laptop Computer		46.5677	Ameren TRM 2.7.1
48	Whole Business Efficiency	ENERGY STAR Server_W<1500	44	C&I	Office Equipment		per server	0.85	$59.00	ICF Expert		1,158.2276	Ameren TRM 2.7.4
49	Whole Business Efficiency	ENERGY STAR Server_W=1501-3000	45	C&I	Office Equipment		per server	0.85	$118.00	ICF Expert		4,271.1396	Ameren TRM 2.7.4
50	Whole Business Efficiency	ENERGY STAR Steam Cooker	46	C&I	Cooking		per cooker	0.80	$2,490.00	IL TRM v6 vol2	25	17,544.6376	Calculated Value
51	Whole Business Efficiency	Engineered Nozzles	47	Industrial	All		Per participant	0.64	$262.99			22,503.9440	
52	Whole Business Efficiency	Exterior LED Linear Tube Light Bulb	48	C&I	Lighting		per lamp	0.85	$6.16	IL TRM v5 vol2	378	38.4538	Calculated Value

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53	Whole Business Efficiency	Exterior LED replacing < 175W Fixture or Mogul Screw-Ba	49	C&I	Lighting	Annual Oper	per fixture	0.85	$116.29	IL TRM v6 vol2	372	388.9585	Calculated Value
54	Whole Business Efficiency	Exterior LED replacing > 400W Fixture or Mogul Screw-Ba	50	C&I	Lighting	Annual Oper	per fixture	0.85	$838.53	IL TRM v6 vol2	372	2,804.6885	Calculated Value
55	Whole Business Efficiency	Exterior LED replacing 175W-250W Fixture or Mogul Scre	51	C&I	Lighting	Annual Oper	per fixture	0.85	$131.13	IL TRM v6 vol2	372	438.6030	Calculated Value
56	Whole Business Efficiency	Exterior LED replacing 251W-400W Fixture or Mogul Scre	52	C&I	Lighting	Annual Oper	per fixture	0.85	$174.05	IL TRM v6 vol2	372	582.1690	Calculated Value
57	Whole Business Efficiency	Exterior Lighting BiLevel Control w Override, 150 to 1000	53	C&I	Lighting		per fixture	0.85	$250.00	Econlight		236.8205	Calculated
58	Whole Business Efficiency	Floating Head Pressure Controls	54	Industrial	All		Per participant	0.80	$237.35			7,693.2360	
59	Whole Business Efficiency	Free Cooling	55	Industrial	All		Per participant	0.64	$517.54			18,745.1134	
60	Whole Business Efficiency	Ground Source Heat Pump	56	C&I	HVAC		Per participant	0.64	$14,094.88	Program Tracking Data		32,429.7231	Calculated Value
61	Whole Business Efficiency	Heat Pump Tune-ups	57	C&I	Cooling		per ton	0.90	$17.93	IL TRM v8, 4.4.1		264.1656	IL TRM v8, 4.4.1
62	Whole Business Efficiency	High Efficiency Battery Charger (for Forklifts)	58	Industrial	All		Per participant	0.64	$143.83			617.3122	
63	Whole Business Efficiency	High Efficiency Chiller	59	Industrial	All		Per participant	0.64	$3,531.27			11,359.1363	
64	Whole Business Efficiency	High Efficiency Dry-Type Transformers	60	Industrial	All		Per participant	0.64	$0.00			59.4720	
65	Whole Business Efficiency	High Efficiency Light Fixtures	61	Industrial	All		Per participant	0.80	$4,481.16			18,712.5248	
66	Whole Business Efficiency	High Efficiency Pool Pump	62	C&I	Pools		per installed unit	0.90	$218.39	Program Tracking Data		5,142.0921	Calculated Value
67	Whole Business Efficiency	High Efficiency Rooftop AC	63	Industrial	All		Per participant	0.64	$1,495.24			10,116.7885	
68	Whole Business Efficiency	Impeller Trimming (Pump)	64	Industrial	All		Per participant	0.64	$1,243.15			10,133.4720	
69	Whole Business Efficiency	Improve Compressor Components	65	Industrial	All		Per participant	0.80	$1,075.42			1,785.1881	
70	Whole Business Efficiency	Improve Fan Components	66	Industrial	All		Per participant	0.64	$1,040.20			1,542.5526	
71	Whole Business Efficiency	Improve Pump Components	67	Industrial	All		Per participant	0.64	$2,152.84			3,685.6833	
72	Whole Business Efficiency	Insulation (Dryer)	68	Industrial	All		Per participant	0.64	$106.62			2,902.1646	
73	Whole Business Efficiency	Insulation (Furnace)	69	Industrial	All		Per participant	0.64	$122.23			2,349.9038	
74	Whole Business Efficiency	Insulation (Kiln)	70	Industrial	All		Per participant	0.64	$24.45			2,349.9038	
75	Whole Business Efficiency	Insulation (Oven)	71	Industrial	All		Per participant	0.64	$1,064.30			2,887.6905	
76	Whole Business Efficiency	Integrated Control System	72	Industrial	All		Per participant	0.64	$0.02			9,923.0288	
77	Whole Business Efficiency	Interior Daylighting Controls Replacing No Controls	73	C&I	Lighting		per sensor	0.85	$65.00	IL TRM v6 vol2	402 (portfolio	358.4326	Calculated Value
78	Whole Business Efficiency	Interior Directional LED Lamp replacing 50-70W Lamp	74	C&I	Lighting		per lamp	0.85	$6.39	IL TRM v5 vol2	377	122.9288	Calculated Value
79	Whole Business Efficiency	Interior Directional LED Lamp replacing 71-110W Lamp	75	C&I	Lighting		per lamp	0.85	$9.74	IL TRM v5 vol2	377	187.5101	Calculated Value
80	Whole Business Efficiency	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	76	C&I	Lighting	Annual Oper	per fixture	0.85	$132.00	IL TRM v6 vol2	370-371 (blen	280.4889	Calculated Value
81	Whole Business Efficiency	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	77	C&I	Lighting	Annual Oper	per fixture	0.85	$121.30	IL TRM v5 vol2	378-379 (blen	89.2744	Calculated Value
82	Whole Business Efficiency	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	78	C&I	Lighting	Annual Oper	per fixture	0.85	$130.34	IL TRM v6 vol2	370-371 (blen	276.9630	Calculated Value
83	Whole Business Efficiency	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	79	C&I	Lighting	Annual Oper	per fixture	0.85	$152.45	IL TRM v5 vol2	378-379 (blen	112.1979	Calculated Value
84	Whole Business Efficiency	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	80	C&I	Lighting	Annual Oper	per fixture	0.85	$167.65	IL TRM v6 vol2	370-371 (blen	356.2368	Calculated Value
85	Whole Business Efficiency	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	81	C&I	Lighting	Annual Oper	per fixture	0.85	$176.25	IL TRM v5 vol2	378-379 (blen	129.7102	Calculated Value
86	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 101-155W	82	C&I	Lighting	Annual Oper	per fixture	0.85	$112.52	IL TRM v6 vol2	370	344.5321	Calculated Value
87	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 45-60W F	83	C&I	Lighting	Annual Oper	per fixture	0.85	$43.98	IL TRM v6 vol2	370	134.6598	Calculated Value
88	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 61-100W	84	C&I	Lighting	Annual Oper	per fixture	0.85	$66.50	IL TRM v6 vol2	370	203.6319	Calculated Value
89	Whole Business Efficiency	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lam	85	C&I	Lighting	Annual Oper	per fixture	0.85	$6.20	IL TRM v5 vol2	378	15.1341	Calculated Value
90	Whole Business Efficiency	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lam	86	C&I	Lighting	Annual Oper	per fixture	0.85	$12.60	IL TRM v5 vol2	378	30.7542	Calculated Value
91	Whole Business Efficiency	Interior Lighting - Embedded Fixture Controls	87	C&I	Lighting		per control	0.85	$40.96	IL TRM v8,4.5.10 Lighting Controls		96.6426	IL TRM v8,4.5.10 Li
92	Whole Business Efficiency	Interior Occupancy or Vacancy Sensor Replacing No Con	88	C&I	Lighting		per sensor	0.85	$84.00	IL TRM v6 vol2	402	108.5023	Calculated Value
93	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 40-60W Lar	89	C&I	Lighting		per lamp	0.85	$4.92	IL TRM v6 vol2	370	111.6689	Calculated Value
94	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 61-100W La	90	C&I	Lighting		per lamp	0.85	$8.28	IL TRM v6 vol2	370	188.1600	Calculated Value
95	Whole Business Efficiency	Kitchen Demand Controlled Ventilation	91	C&I	Cooking		per sq ft	0.80	$0.08	IL TRM v6 vol2	72	0.6391	IL TRM v6 vol2
96	Whole Business Efficiency	LED Exit Sign	92	C&I	Lighting		per Open Sign	0.85	$75.02	IL TRM v6 vol2	376	24.9377	Calculated Value
97	Whole Business Efficiency	LED Flood Light (<15W)	93	C&I	Lighting		per lamp	0.85	$5.03	IL TRM v6 vol2	370	124.0968	Calculated Value
98	Whole Business Efficiency	LED Flood Light (>=15W)	94	C&I	Lighting		per lamp	0.85	$5.63	IL TRM v6 vol2	370	135.5474	Calculated Value
99	Whole Business Efficiency	LED High Bay fixture replacing > 750W fixture	95	C&I	Lighting		per fixture	0.85	$769.88	IL TRM v5 vol2	379	2,124.5795	Calculated Value
100	Whole Business Efficiency	LED High Bay Fixture replacing 451W - 750W fixture	96	C&I	Lighting		per fixture	0.85	$385.12	IL TRM v5 vol2	379	1,062.7996	Calculated Value

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101	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	97	C&I	Lighting		per fixture	0.85	$324.74	IL TRM v6 vol2	371	1,570.4731	Calculated Value
102	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	98	C&I	Lighting		per fixture	0.85	$225.26	IL TRM v6 vol2	371	1,089.4079	Calculated Value
103	Whole Business Efficiency	LED Low Bay Fixture replacing 150W-300W fixture	99	C&I	Lighting		per fixture	0.85	$75.00	IL TRM v5 vol2	379	275.3896	Calculated Value
104	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	100	C&I	Lighting		per fixture	0.85	$54.74	IL TRM v6 vol2	371	378.5215	Calculated Value
105	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	101	C&I	Lighting		per fixture	0.85	$54.74	IL TRM v6 vol2	371	361.0674	Calculated Value
106	Whole Business Efficiency	LED Low/High Bay Fixture replacing 301W-450W fixture	102	C&I	Lighting		per fixture	0.85	$300.00	IL TRM v5 vol2	379 (portfolio	650.0348	Calculated Value
107	Whole Business Efficiency	LED low/high bay mogul screw-base lamp/retrofit kit rep	103	C&I	Lighting		per fixture	0.85	$150.00	IL TRM v6 vol2	371	621.5114	Calculated Value
108	Whole Business Efficiency	LED Open Sign	104	C&I	Lighting		per Open Sign	0.85	$25.00	IL TRM v6 vol2	376	96.1291	Calculated Value
109	Whole Business Efficiency	Lighting Controls: ON/OFF Timer Settings	105	Industrial	All		Per participant	0.80	$938.62			6,237.5083	
110	Whole Business Efficiency	Low Flow Faucet Aerator Bathroom	106	C&I	Hot Water	Bathroom	per faucet aerator	0.85	$8.04	IL TRM v5 vol2	93	173.5554	Calculated Value
111	Whole Business Efficiency	Low Flow Faucet Aerator Kitchen	107	C&I	Hot Water	Kitchen	per faucet aerator	0.85	$8.01	IL TRM v5 vol2	93	210.4571	Calculated Value
112	Whole Business Efficiency	Low Pressure-Drop Filters	108	Industrial	All		Per participant	0.64	$126.69			315.0552	
113	Whole Business Efficiency	Match Compressor Size to Load	109	Industrial	All		Per participant	0.80	$1,274.36			2,621.4849	
114	Whole Business Efficiency	Match Pump Size to Load	110	Industrial	All		Per participant	0.64	$1,963.78			14,742.7332	
115	Whole Business Efficiency	Minimize Operating Air Pressure	111	Industrial	All		Per participant	0.64	$0.00			6,096.9822	
116	Whole Business Efficiency	Minimum Cylinder Clearance	112	Industrial	All		Per participant	0.64	$130.50			3,280.7362	
117	Whole Business Efficiency	Networked Lighting Controls	113	C&I	Lighting		per sq ft	0.85	$0.28	IL TRM V9- cost per LLLC	541	1.8707	Calculated Value
118	Whole Business Efficiency	Open Display Case_Low Temperature	114	C&I	Refrigeration		per linear foot	0.90	$550.92	FOE TRM	77	1,842.5691	FOE TRM
119	Whole Business Efficiency	Optimized Chilled Water Temperature and/or Optimized	115	Industrial	All		Per participant	0.64	$0.01			1,431.8145	
120	Whole Business Efficiency	Optimized Condenser Pressure	116	Industrial	All		Per participant	0.64	$0.01			4,190.6765	
121	Whole Business Efficiency	Optimized Distribution System	117	Industrial	All		Per participant	0.64	$756.98			1,656.6773	
122	Whole Business Efficiency	Optimized Duct Design to Improve Efficiency	118	Industrial	All		Per participant	0.64	$2,374.59			4,718.0363	
123	Whole Business Efficiency	Packaged Terminal Air Conditioner	119	C&I	HVAC		per equipment	0.90	$84.00	IL TRM v6 vol2	184	980.3143	Calculated Value
124	Whole Business Efficiency	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101\	120	C&I	Lighting	Annual Oper	per fixture	0.85	$105.00	IL TRM v6 vol2	T8: 356,357 T5	207.4250	Calculated Value
125	Whole Business Efficiency	Parking Garage LED Linear Tube Light Bulb	121	C&I	Lighting		per lamp	0.85	$6.16	IL TRM v5 vol2	378	47.0461	Calculated Value
126	Whole Business Efficiency	Parking Garage LED replacing 101W-175W Fixture or Mo	122	C&I	Lighting	Annual Oper	per fixture	0.85	$380.00	IL TRM v6 vol2	371-372	253.8855	Calculated Value
127	Whole Business Efficiency	Premium Efficiency Air Dryer (Compressors)	123	Industrial	All		Per participant	0.64	$1,588.59			2,755.8184	
128	Whole Business Efficiency	Premium Efficiency Control with VSDs (Fans)	124	Industrial	All		Per participant	0.64	$1,434.13			8,590.7631	
129	Whole Business Efficiency	Premium Efficiency Control with VSDs (Other motors)	125	Industrial	All		Per participant	0.64	$4,220.30			21,623.4838	
130	Whole Business Efficiency	Premium Efficiency Control with VSDs (Pumps)	126	Industrial	All		Per participant	0.64	$1,730.78			20,104.3838	
131	Whole Business Efficiency	Pre-Rinse Spray Valves Large	127	C&I	Hot Water	Large institu	per valve	0.80	$0.00	IL TRM v5 vol2	62	2,009.0374	Calculated Value
132	Whole Business Efficiency	Pre-Rinse Spray Valves Medium	128	C&I	Hot Water	Medium-size	per valve	0.80	$0.00	IL TRM v5 vol2	62	1,004.5187	Calculated Value
133	Whole Business Efficiency	Pre-Rinse Spray Valves Small	129	C&I	Hot Water	Small, quick-	per valve	0.80	$0.00	IL TRM v5 vol2	62	669.6791	Calculated Value
134	Whole Business Efficiency	Process Heat Recovery to Preheat Makeup Water	130	Industrial	All		Per participant	0.64	$1,571.99			3,566.2566	
135	Whole Business Efficiency	Q-Sync Motors for Reach-in Coolers_9-12 Watt	131	C&I	Refrigeration		per motor	0.90	$216.00	IL TRM v8,4.6.11 Q-Sync Motors for Wa		366.6420	IL TRM v8,4.6.11 Q-
136	Whole Business Efficiency	Q-Sync Motors for Reach-in Freezers_9-12 Watt	132	C&I	Refrigeration		per motor	0.90	$216.00	IL TRM v8,4.6.11 Q-Sync Motors for Wa		453.6539	IL TRM v8,4.6.11 Q-
137	Whole Business Efficiency	Q-Sync Motors for Walk-in Coolers_38-50 Wtt	133	C&I	Refrigeration		per motor	0.90	$216.00	IL TRM v8,4.6.11 Q-Sync Motors for Wa		907.8095	IL TRM v8,4.6.11 Q-
138	Whole Business Efficiency	Q-Sync Motors for Walk-in Freezers_38-50 Watt	134	C&I	Refrigeration		per motor	0.90	$216.00	IL TRM v8,4.6.11 Q-Sync Motors for Wa		1,123.3979	IL TRM v8,4.6.11 Q-
139	Whole Business Efficiency	Reduce or Control Fan Speed	135	Industrial	All		Per participant	0.80	$226.81			7,319.8772	
140	Whole Business Efficiency	Refrigerant Charging Correction_Heavy Duty	136	C&I	Cooling		per ton	0.90	$38.36	MI Weather Sensitive Database		1,188.8855	MI Weather Sensiti
141	Whole Business Efficiency	Remove 4ft Lamp from T8 or T12 system	137	C&I	Lighting		per lamp	0.85	$41.00	IL TRM v6 vol2	346	120.6580	Calculated Value
142	Whole Business Efficiency	Remove 8ft Lamp from T8 or T12 System	138	C&I	Lighting		per lamp	0.85	$41.00	IL TRM v6 vol2	346	120.6580	Calculated Value
143	Whole Business Efficiency	Replace Compressed Air Use with Mechanical or Electric	139	Industrial	All		Per participant	0.64	$1,717.39			18,372.1227	
144	Whole Business Efficiency	Smart Defrost Controls	140	Industrial	All		Per participant	0.64	$103.29			7,168.1656	
145	Whole Business Efficiency	Strip Curtains Cooler	141	C&I	Refrigeration	per cooler w	per cooler	0.80	$214.62	IL TRM v5 vol2	456	332.1934	IL TRM v5 vol2
146	Whole Business Efficiency	Strip Curtains Freezer	142	C&I	Refrigeration	per freezer v	per freezer	0.80	$214.62	IL TRM v5 vol2	456	1,976.5509	IL TRM v5 vol2
147	Whole Business Efficiency	Synchronous Belts	143	Industrial	All		Per participant	0.64	$165.94			869.9894	
148	Whole Business Efficiency	Use Cooler Air from Outside for Make Up Air	144	Industrial	All		Per participant	0.64	$35.85			1,312.2945	

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149	Whole Business Efficiency	Variable Speed Drives	145	Industrial	All		Per participant	0.64	$783.06			23,917.5858	
150	Whole Business Efficiency	Variable Speed Drives for HVAC Supply and Return Fans_	146	C&I	HVAC		per HP	0.90	$450.00	IL TRM V9 vol2	306	1,675.4128	IL TRM V9 vol2
151	Whole Business Efficiency	Variable Speed ECM Pump, <100 Watts Max Input, Dome	147	C&I	Pumps/Fans		per pump	0.80	$690.79	WI TRM 2018	937	989.1214	Calculated Value
152	Whole Business Efficiency	Variable Speed ECM Pump, 100 - 500 Watts Max Input, D	148	C&I	Pumps/Fans		per pump	0.80	$1,324.75	WI TRM 2018	937	4,935.2237	Calculated Value
153	Whole Business Efficiency	Volume Pocket Adjustments	149	Industrial	All		Per participant	0.64	$0.00			3,280.7362	
154	Whole Business Efficiency	VSD on Chiller Compressor	150	C&I	Pumps/Fans		Per participant	0.64	$3,397.03	IL TRM V9 vol2	280	17,720.1580	Calculated Value
155	Whole Business Efficiency	VSD Pumps/Fan (Cooling Tower Fan)	151	C&I	Pumps/Fans		per HP	0.90	$1,330.00	IL TRM V9 vol2	280	1,506.7973	Calculated Value
156	Whole Business Efficiency	Warehouse Loading Dock Seals	152	Industrial	All		Per participant	0.64	$1,405.96			3,168.3967	
157	Whole Business Efficiency	Water Heater Tank Wrap	153	C&I	Hot Water		per water heater	0.85	$30.00	Program Tracking Data		339.7240	Calculated Value
158	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	154	C&I	Cooling		per ton	0.90	$68.01	IL TRM v9	199	586.5156	IL TRM V9 vol2
159	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	155	C&I	Cooling		per ton	0.90	$68.01	IL TRM v9	199	586.5156	IL TRM V9 vol2
160	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	156	C&I	Cooling		per ton	0.90	$68.01	IL TRM v9	199	1,203.5878	IL TRM V9 vol2
161	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	157	C&I	Cooling		per ton	0.90	$64.33	IL TRM v9	199	747.0546	IL TRM V9 vol2
162	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	158	C&I	Cooling		per ton	0.90	$62.24	IL TRM v9	199	593.4610	IL TRM V9 vol2
163	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	159	C&I	Cooling		per ton	0.90	$54.38	IL TRM v9	199	255.3194	IL TRM V9 vol2
164	Whole Business Efficiency	Zero-Loss Condensate Drain	160	Industrial	All		Per participant	0.80	$2,945.71			8,979.4475	
165	Business Energy Education	Behavioral Measures Tier 1	161	C&I	All		per participant	1.00	$0.00			359.1566	
166	Business Energy Education	Strategic Energy Management	162	C&I	All		Per participant	1.00	$0.00			6,782.2274	
167	Home Demand Response	DR Water Heater DLC	163	All	Hot Water		Per participant	1.00	$0.00	MN TRM v2.2	357	-	Calculated Value
168	Home Demand Response	Programmable Thermostat	164	Single Family	HVAC		Per participant	1.00	$0.00	IL TRM v9 vol3	146	-	Calculated Value
169	Home Demand Response	Smart Thermostat	165	All	HVAC		Per participant	1.00	$0.00	Weighted average cost of actual units i		148.1960	Navigant PY2017 R
170	Home Demand Response	Smart Thermostat - BYO	166	All	HVAC		Per participant	1.00	$0.00	Weighted average cost of actual units i		-	Navigant PY2017 R
171	Hard-to-Reach Businesses	Advanced Rooftop Unit Controls, 2000-4000 annual hour	167	C&I	HVAC		per ton	0.92	$530.10	IL TRM v7 vol2	351	870.1331	Calculated Value
172	Hard-to-Reach Businesses	Air Conditioner Tune-up	168	C&I	Cooling		per ton	0.80	$10.92	IL TRM v8, 4.4.1		64.2703	IL TRM v8, 4.4.1
173	Hard-to-Reach Businesses	Air-Cooled Chiller	169	C&I	Cooling		per ton	0.92	$198.70	IL TRM v9	199	340.6501	IL TRM V9 vol2
174	Hard-to-Reach Businesses	Air-Source Heat Pump =240,000 and <760,000 Btu/h	170	C&I	HVAC		per ton	0.92	$112.63	IL TRM v6 vol2	165	141.3214	Calculated Value
175	Hard-to-Reach Businesses	Air-Source Heat Pump <65,000 Btu/h	171	C&I	HVAC		per ton	0.92	$85.01	IL TRM v6 vol2	165	197.8220	Calculated Value
176	Hard-to-Reach Businesses	Air-Source Heat Pump =65,000 and <135,000 Btu/h	172	C&I	HVAC		per ton	0.92	$112.63	IL TRM v6 vol2	165	207.8093	Calculated Value
177	Hard-to-Reach Businesses	ASHP <65_Replacing ER	173	C&I	HVAC		per ton	0.92	$388.58	IL TRM v6 vol2	165	2,836.6575	Calculated Value
178	Hard-to-Reach Businesses	ASHP 135 - 240kbtu_Replacing ER	174	C&I	HVAC		per ton	0.92	$388.58	IL TRM v6 vol2	165	2,732.1909	Calculated Value
179	Hard-to-Reach Businesses	ASHP 65 - 135kbtu_Replacing ER	175	C&I	HVAC		per ton	0.92	$429.72	IL TRM v6 vol2	165	4,160.6746	Calculated Value
180	Hard-to-Reach Businesses	Business Custom - Cooking	176	C&I	All		Per Project	0.84	$1,862.47			7,745.9494	
181	Hard-to-Reach Businesses	Business Custom - HVAC	177	C&I	All		Per Project	0.92	$30,171.76			52,461.2231	
182	Hard-to-Reach Businesses	Business Custom - Lighting	178	C&I	All		Per Project	0.88	$11,997.86			44,371.5402	
183	Hard-to-Reach Businesses	Business Custom - Misc	179	C&I	All		Per Project	0.84	$29,990.33			130,268.7820	
184	Hard-to-Reach Businesses	Business Custom - New Construction	180	C&I	All		Per Project	0.84	$2,415.87			11,055.9682	
185	Hard-to-Reach Businesses	Business Custom - Refrigeration	181	C&I	All		Per Project	0.92	$8,759.94			44,252.3054	
186	Hard-to-Reach Businesses	Business Custom - Retrocomisioning	182	C&I	All		Per Project	0.71	$2,756.27			1,529.6271	
187	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Advanced Tier	183	C&I	HVAC		per ton	0.92	$37.83	IL TRM v6 vol2	203	186.8758	Calculated Value
188	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Tier 2	184	C&I	HVAC		per ton	0.92	$37.83	IL TRM v6 vol2	203	106.5971	Calculated Value
189	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_Advanced Tier	185	C&I	HVAC		per ton	0.92	$65.45	IL TRM v6 vol2	203	181.8866	Calculated Value
190	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_CEE Tier 2	186	C&I	HVAC		per ton	0.92	$126.84	IL TRM v6 vol2	203	337.2557	Calculated Value
191	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Advanced Tie	187	C&I	HVAC		per ton	0.92	$55.65	IL TRM v6 vol2	203	156.6197	Calculated Value
192	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Tier 1	188	C&I	HVAC		per ton	0.92	$63.42	IL TRM v6 vol2	203	156.1403	Calculated Value
193	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Air Cooled	189	C&I	Cooling		per ton	0.90	$40.38	FOE Cooling System Tune-Up,ID 2666-2		268.8484	Calculated
194	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Water Cooled	190	C&I	Cooling		per ton	0.90	$77.39	FOE Cooling System Tune-Up,ID 2666-2		515.5459	Calculated
195	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/2"	191	C&I	Pumps/Fans		per nozzle	0.92	$121.00	IL TRM v6 vol2	472	5,007.2144	Calculated Value
196	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/4"	192	C&I	Pumps/Fans		per nozzle	0.92	$57.00	IL TRM v6 vol2	472	1,037.2087	Calculated Value

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
197	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/8"	193	C&I	Pumps/Fans		per nozzle	0.92	$42.00	IL TRM v6 vol2	472	375.5411	IL TRM v7 vol2
198	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 5/16"	194	C&I	Pumps/Fans		per nozzle	0.92	$87.00	IL TRM v6 vol2	472	2,020.7687	Calculated Value
199	Hard-to-Reach Businesses	Compressed Air - No Loss Condensate Drain/Valve	195	C&I	Pumps/Fans		per drain	0.92	$700.00	IL TRM v6 vol2	470	1,900.7192	Calculated Value
200	Hard-to-Reach Businesses	Demand Controlled Ventillation (Electric Heat)	196	C&I	HVAC		per sq ft	0.84	$0.31	Program Tracking Data		1.7175	Calculated Value
201	Hard-to-Reach Businesses	Demand Controlled Ventillation (Heat Pump)	197	C&I	HVAC		per sq ft	0.84	$0.22	Program Tracking Data		1.2001	Calculated Value
202	Hard-to-Reach Businesses	Door heater controls for cooler (Conductivity-based cont	198	Small C&I	Refrigeration		per circuit	0.88	$200.00	IL TRM v6 vol2	439	5,820.0821	Calculated Value
203	Hard-to-Reach Businesses	Door heater controls for cooler (Humidity-based control	199	Small C&I	Refrigeration		per circuit	0.88	$300.00	IL TRM v6 vol2	439	4,572.9067	Calculated Value
204	Hard-to-Reach Businesses	Door heater controls for freezer (Conductivity-based cor	200	Small C&I	Refrigeration		per circuit	0.88	$200.00	IL TRM v6 vol2	439	14,157.8410	Calculated Value
205	Hard-to-Reach Businesses	Door heater controls for freezer (Humidity-based contro	201	Small C&I	Refrigeration		per circuit	0.88	$300.00	IL TRM v6 vol2	439	11,123.9703	Calculated Value
206	Hard-to-Reach Businesses	Duct Efficiency Improvements	202	Small C&I	Space Heating		per sq ft	0.80	$323.73	MI TRM Duct Sealing, Commercial, $10		316.4207	AR TRM v8.1
207	Hard-to-Reach Businesses	Duct Insulation (Converted Residences)	203	Small C&I	Space Heating		per sq ft	0.80	$2,000.00	FIXR		19.3864	AR TRM v8.1
208	Hard-to-Reach Businesses	Duct Insulation (Small Commercial)	204	Small C&I	Space Heating		per sq ft	0.80	$2,000.00	FIXR		93.5228	AR TRM v8.1
209	Hard-to-Reach Businesses	ECM Motors Walk-In Coolers & Freezers	205	Small C&I	Refrigeration		per motor	0.92	$291.00	IL TRM v6 vol2	442	1,547.9284	IL TRM v6 vol2
210	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/ software	206	C&I	Refrigeration	kWh savings	per machine	0.92	$500.00	IL TRM v6 vol2	445	1,675.3951	IL TRM v6 vol2
211	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/o software	207	C&I	Refrigeration	kWh savings	per machine	0.92	$500.00	IL TRM v6 vol2	445	1,191.5069	IL TRM v6 vol2
212	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (0 < V <13)	208	C&I	Cooking		per container	0.84	$745.76	Ameren MO TRM 2018	48	2,205.1928	Calculated Value
213	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (13 = V <28)	209	C&I	Cooking		per container	0.84	$1,117.52	Ameren MO TRM 2018	48	3,304.4698	Calculated Value
214	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (28 = V)	210	C&I	Cooking		per container	0.84	$2,636.71	Ameren MO TRM 2018	48	7,796.6628	Calculated Value
215	Hard-to-Reach Businesses	ENERGY STAR Laptop	211	C&I	Office Equipment		per laptop	0.88	$5.00	Ameren TRM 2.7.1 Laptop Computer		48.2395	Ameren TRM 2.7.1
216	Hard-to-Reach Businesses	ENERGY STAR Server_W<1500	212	C&I	Office Equipment		per server	0.88	$59.00	ICF Expert		1,199.8417	Ameren TRM 2.7.4
217	Hard-to-Reach Businesses	ENERGY STAR Server_W=1501-3000	213	C&I	Office Equipment		per server	0.88	$118.00	ICF Expert		4,421.8857	Ameren TRM 2.7.4
218	Hard-to-Reach Businesses	ENERGY STAR Steam Cooker	214	C&I	Cooking		per cooker	0.84	$2,490.00	IL TRM v6 vol2	25	17,654.6964	Calculated Value
219	Hard-to-Reach Businesses	Exterior LED Linear Tube Light Bulb	215	C&I	Lighting		per lamp	0.77	$6.16	IL TRM v5 vol2	378	35.3977	Calculated Value
220	Hard-to-Reach Businesses	Exterior LED replacing < 175W Fixture or Mogul Screw-B	216	Small C&I	Lighting		per fixture	0.88	$116.29	IL TRM v6 vol2	372	401.3595	Calculated Value
221	Hard-to-Reach Businesses	Exterior LED replacing > 400W Fixture or Mogul Screw-B	217	Small C&I	Lighting		per fixture	0.88	$838.53	IL TRM v6 vol2	372	2,894.1326	Calculated Value
222	Hard-to-Reach Businesses	Exterior LED replacing 175W-250W Fixture or Mogul Scre	218	Small C&I	Lighting		per fixture	0.88	$131.13	IL TRM v6 vol2	372	452.5831	Calculated Value
223	Hard-to-Reach Businesses	Exterior LED replacing 251W-400W Fixture or Mogul Scre	219	Small C&I	Lighting		per fixture	0.88	$174.06	IL TRM v6 vol2	372	600.7424	Calculated Value
224	Hard-to-Reach Businesses	Exterior Lighting BiLevel Control w Override, 150 to 1000	220	C&I	Lighting		per fixture	0.88	$250.00	Econlight		244.4399	Calculated
225	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing ER	221	Single Family	All		per ton	0.92	$1,111.09	IL TRM v9 vol3	152	3,901.9211	Calculated Value
226	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing HP	222	Single Family	All		per ton	0.92	$415.61	IL TRM v9 vol3	152	1,036.6780	Calculated Value
227	Hard-to-Reach Businesses	Heat Pump Tune-ups	223	C&I	Cooling		per ton	0.80	$20.39	IL TRM v8, 4.4.1		78.6871	IL TRM v8, 4.4.1
228	Hard-to-Reach Businesses	Interior Daylighting Controls Replacing No Controls	224	Small C&I	Lighting		per sensor	0.88	$65.00	IL TRM v6 vol2	402 (portfolio	725.2567	Calculated Value
229	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 50-70W Lamp	225	Small C&I	Lighting		per lamp	0.77	$8.13	IL TRM v6 vol2	370	121.6038	Calculated Value
230	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 71-110W Lamp	226	Small C&I	Lighting		per lamp	0.77	$9.74	Program Tracking Data		145.6369	Calculated Value
231	Hard-to-Reach Businesses	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	227	Small C&I	Lighting		per fixture	0.77	$132.00	IL TRM v6 vol2	370-371 (blen	252.7417	Calculated Value
232	Hard-to-Reach Businesses	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	228	Small C&I	Lighting		per fixture	0.88	$121.30	IL TRM v5 vol2	378-379 (blen	76.9729	Calculated Value
233	Hard-to-Reach Businesses	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	229	Small C&I	Lighting		per fixture	0.77	$130.34	IL TRM v6 vol2	370-371 (blen	249.5645	Calculated Value
234	Hard-to-Reach Businesses	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	230	Small C&I	Lighting		per fixture	0.88	$152.45	IL TRM v5 vol2	378-379 (blen	96.7377	Calculated Value
235	Hard-to-Reach Businesses	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	231	Small C&I	Lighting		per fixture	0.77	$167.65	IL TRM v6 vol2	370-371 (blen	320.9963	Calculated Value
236	Hard-to-Reach Businesses	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	232	Small C&I	Lighting		per fixture	0.88	$176.25	IL TRM v5 vol2	378-379 (blen	111.8369	Calculated Value
237	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 101-155V	233	Small C&I	Lighting		per fixture	0.77	$112.52	IL TRM v6 vol2	370	239.9732	Calculated Value
238	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 45-60W F	234	Small C&I	Lighting		per fixture	0.77	$43.98	IL TRM v6 vol2	370	93.7932	Calculated Value
239	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 61-100W	235	Small C&I	Lighting		per fixture	0.77	$66.50	IL TRM v6 vol2	370	141.8335	Calculated Value
240	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lan	236	Small C&I	Lighting		per fixture	0.88	$6.20	IL TRM v5 vol2	378	16.4971	Calculated Value
241	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lan	237	Small C&I	Lighting		per fixture	0.88	$12.60	IL TRM v5 vol2	378	33.5240	Calculated Value
242	Hard-to-Reach Businesses	Interior Lighting - Embedded Fixture Controls	238	C&I	Lighting		per control	0.88	$41.13	IL TRM v8,4.5.10 Lighting Controls		115.0490	IL TRM v8,4.5.10 Li
243	Hard-to-Reach Businesses	Interior Occupancy or Vacancy Sensor Replacing No Con	239	Small C&I	Lighting		per sensor	0.88	$84.00	IL TRM v6 vol2	402	144.4398	Calculated Value
244	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 40-60W Lar	240	Small C&I	Lighting		per lamp	0.77	$4.92	IL TRM v6 vol2	370	90.6216	Calculated Value

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
245	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 61-100W La	241	Small C&I	Lighting		per lamp	0.77	$8.28	IL TRM v6 vol2	370	152.6958	Calculated Value
246	Hard-to-Reach Businesses	Kitchen Demand Controlled Ventilation	242	C&I	Cooking		per sq ft	0.84	$0.17	IL TRM v6 vol2	72	0.9424	IL TRM v6 vol2
247	Hard-to-Reach Businesses	LED Exit Sign	243	Small C&I	Lighting	Direct Install	per Open Sign	0.88	$75.02	IL TRM v6 vol2	376	25.6814	Calculated Value
248	Hard-to-Reach Businesses	LED Flood Light (<15W)	244	C&I	Lighting		per lamp	0.77	$5.03	IL TRM v6 vol2	370	99.3329	Calculated Value
249	Hard-to-Reach Businesses	LED Flood Light (>=15W)	245	C&I	Lighting		per lamp	0.77	$5.63	IL TRM v6 vol2	370	111.3453	Calculated Value
250	Hard-to-Reach Businesses	LED High Bay fixture replacing > 750W fixture	246	Small C&I	Lighting		per fixture	0.88	$769.88	IL TRM v5 vol2	379	1,920.1231	Calculated Value
251	Hard-to-Reach Businesses	LED High Bay Fixture replacing 451W - 750W fixture	247	Small C&I	Lighting		per fixture	0.88	$385.12	IL TRM v5 vol2	379	960.5223	Calculated Value
252	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	248	Small C&I	Lighting		per fixture	0.77	$324.74	IL TRM v6 vol2	371	1,382.5214	Calculated Value
253	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	249	Small C&I	Lighting		per fixture	0.77	$225.26	IL TRM v6 vol2	371	959.0292	Calculated Value
254	Hard-to-Reach Businesses	LED Low Bay Fixture replacing 150W-300W fixture	250	Small C&I	Lighting		per fixture	0.88	$75.00	IL TRM v5 vol2	379	247.0983	Calculated Value
255	Hard-to-Reach Businesses	LED low bay mogul screw-base lamp/retrofit kit replacin	251	Small C&I	Lighting		per fixture	0.77	$54.74	IL TRM v6 vol2	371	335.1950	Calculated Value
256	Hard-to-Reach Businesses	LED Low/High Bay Fixture replacing 301W-450W fixture	252	Small C&I	Lighting		per fixture	0.88	$300.00	IL TRM v5 vol2	379 (portfolio	590.2023	Calculated Value
257	Hard-to-Reach Businesses	LED low/high bay mogul screw-base lamp/retrofit kit rep	253	Small C&I	Lighting		per fixture	0.77	$150.00	IL TRM v6 vol2	371	600.3776	Calculated Value
258	Hard-to-Reach Businesses	LED Open Sign	254	Small C&I	Lighting	Direct Install	per Open Sign	0.88	$25.00	IL TRM v6 vol2	376	102.0717	Calculated Value
259	Hard-to-Reach Businesses	LED Refrigerator Case Light	255	Small C&I	Lighting		per door	0.88	$133.00	Program Tracking Data		91.2094	Calculated Value
260	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Bathroom	256	Small C&I	Hot Water	Direct Install	per faucet aerator	0.81	$8.03	IL TRM v6 vol2	90	66.5251	Calculated Value
261	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Kitchen	257	Small C&I	Hot Water	Direct Install	per faucet aerator	0.81	$8.00	IL TRM v6 vol2	90	56.6740	Calculated Value
262	Hard-to-Reach Businesses	Low Flow Showerhead	258	Small C&I	Hot Water	Direct Install	per showerhead	0.80	$25.00	IL TRM v6 vol2	98	403.5871	Calculated Value
263	Hard-to-Reach Businesses	Networked Lighting Controls	259	C&I	Lighting		per sq ft	0.88	$1.50	IL TRM V9- cost per LLLC	541	0.6693	Calculated Value
264	Hard-to-Reach Businesses	Open Display Case_Low Temperature	260	C&I	Refrigeration		per linear foot	0.92	$550.92	FOE TRM	77	1,883.3343	FOE TRM
265	Hard-to-Reach Businesses	Packaged RTU Sealing	261	C&I	Space Heating		per ton	0.81	$9.72	IL TRM v4.4.43 Packaged RTU Sealing		70.2217	IL TRM v4.4.43 Pac
266	Hard-to-Reach Businesses	Packaged Terminal Air Conditioner	262	C&I	HVAC		per equipment	0.92	$84.00	IL TRM v6 vol2	184	993.8934	Calculated Value
267	Hard-to-Reach Businesses	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175'	263	Small C&I	Lighting		per fixture	0.88	$105.00	IL TRM v6 vol2	T8: 356,357 T5	213.8334	Calculated Value
268	Hard-to-Reach Businesses	Parking Garage LED Linear Tube Light Bulb	264	Small C&I	Lighting		per lamp	0.88	$6.16	IL TRM v6 vol2	T8: 356,357 T5	48.5953	Calculated Value
269	Hard-to-Reach Businesses	Parking Garage LED replacing 101W-175W Fixture or Mo	265	Small C&I	Lighting		per fixture	0.88	$380.00	IL TRM v6 vol2	371-372	262.4252	Calculated Value
270	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Large	266	C&I	Hot Water	Large institu	per valve	0.84	$0.00	IL TRM v5 vol2	62	2,109.3818	Calculated Value
271	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Medium	267	C&I	Hot Water	Medium-size	per valve	0.84	$0.00	IL TRM v5 vol2	62	1,054.6909	Calculated Value
272	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Small	268	Small C&I	Hot Water	Direct Install	per valve	0.84	$0.00	IL TRM v6 vol2	60	703.1273	Calculated Value
273	Hard-to-Reach Businesses	Remove 4ft Lamp from T8 or T12 system	269	Small C&I	Lighting		per lamp	0.88	$41.00	IL TRM v6 vol2	346	110.2423	Calculated Value
274	Hard-to-Reach Businesses	Remove 8ft Lamp from T8 or T12 System	270	Small C&I	Lighting		per lamp	0.88	$41.00	IL TRM v5 vol2	349	110.2423	Calculated Value
275	Hard-to-Reach Businesses	Strip Curtains Cooler	271	Small C&I	Refrigeration		per cooler	0.92	$214.62	IL TRM v6 vol2	450	468.0725	IL TRM v6 vol2
276	Hard-to-Reach Businesses	Strip Curtains Freezer	272	Small C&I	Refrigeration		per freezer	0.92	$214.62	IL TRM v6 vol2	450	1,307.3883	IL TRM v6 vol2
277	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	273	C&I	HVAC		per HP	0.92	$450.00	IL TRM V9 vol2	306	1,150.7686	IL TRM V9 vol2
278	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	274	C&I	HVAC		per HP	0.92	$450.00	IL TRM V9 vol2	306	373.0763	IL TRM V9 vol2
279	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	275	C&I	HVAC		per HP	0.92	$450.00	IL TRM V9 vol2	306	759.4150	IL TRM V9 vol2
280	Hard-to-Reach Businesses	VSD Pumps/Fan (Cooling Tower Fan)	276	C&I	Pumps/Fans		per HP	0.92	$1,330.00	IL TRM V9 vol2	280	1,491.8773	Calculated Value
281	Hard-to-Reach Businesses	Water Heater Pipe Insulation	277	Small C&I	Hot Water	Direct Install	Per 6ft pipe	0.88	$18.00	IL TRM v7 vol3	171	31.9182	Calculated Value
282	Hard-to-Reach Businesses	Water Heater Tank Wrap	278	C&I	Hot Water		per water heater	0.88	$30.00	Program Tracking Data		356.1003	Calculated Value
283	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	279	C&I	Cooling		per ton	0.92	$35.67	IL TRM v9	199	165.5965	IL TRM V9 vol2
284	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	280	C&I	Cooling		per ton	0.92	$35.67	IL TRM v9	199	165.5965	IL TRM V9 vol2
285	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	281	C&I	Cooling		per ton	0.92	$35.67	IL TRM v9	199	339.8204	IL TRM V9 vol2
286	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	282	C&I	Cooling		per ton	0.92	$37.55	IL TRM v9	199	360.2550	IL TRM V9 vol2
287	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	283	C&I	Cooling		per ton	0.92	$37.52	IL TRM v9	199	268.6335	IL TRM V9 vol2
288	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	284	C&I	Cooling		per ton	0.92	$37.96	IL TRM v9	199	80.0585	IL TRM V9 vol2
289	Hard-to-Reach Businesses	Window Film (Converted Residences)	285	C&I	Space Heating		per sq ft	0.80	$1.53	MI TRM 2019, Window Film installed cc		0.6236	AR TRM v8.1
290	Hard-to-Reach Businesses	Window Film (Small Commercial)	286	C&I	Space Heating		per sq ft	0.80	$1.53	MI TRM 2019, Window Film installed cc		3.4665	AR TRM v8.1
291	Hard-to-Reach Homes	Air Sealing - 30% MF AC	287	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.06	Program tracking data, with 50% co-del		0.1182	Calculated Value
292	Hard-to-Reach Homes	Air Sealing - 30% SF AC	288	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.12	Program tracking data, with 50% co-del		0.2266	Calculated Value

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
293	Hard-to-Reach Homes	Air Sealing - 30% MF AC/ER	289	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.06	Program tracking data, with 50% co-del		0.2337	Calculated Value
294	Hard-to-Reach Homes	Air Sealing - 30% MF ASHP	290	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.06	Program tracking data, with 50% co-del		0.1600	Calculated Value
295	Hard-to-Reach Homes	Air Sealing - 30% SF AC/ER	291	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.12	Program tracking data, with 50% co-del		0.9208	Calculated Value
296	Hard-to-Reach Homes	Air Sealing - 30% SF ASHP	292	Multi-Family	HVAC - Shell		per sq ft	1.00	$0.12	Program tracking data, with 50% co-del		0.5353	Calculated Value
297	Hard-to-Reach Homes	ASHP SEER 15	293	Single Family	HVAC		per ton	0.91	$37.50	IL TRM v7 vol3	64	189.0001	Calculated Value
298	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement	294	Single Family	HVAC		per ton	0.91	$79.73	IL TRM v7 vol3	64	1,738.5452	Calculated Value
299	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement (Future)	295	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	64	256.5197	Calculated Value
300	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat	296	Single Family	HVAC		per ton	0.91	$37.50	IL TRM v7 vol3	64	225.2285	Calculated Value
301	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	297	Single Family	HVAC		per ton	0.91	$79.73	IL TRM v7 vol3	64	3,284.9994	Calculated Value
302	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	298	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	240.4277	Calculated Value
303	Hard-to-Reach Homes	ASHP SEER 16	299	Single Family	HVAC		per ton	0.91	$76.07	IL TRM v7 vol3	64	275.3381	Calculated Value
304	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement	300	Single Family	HVAC		per ton	0.91	$118.30	IL TRM v7 vol3	64	1,815.6388	Calculated Value
305	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement (Future)	301	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	64	331.4075	Calculated Value
306	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	302	Single Family	HVAC		per ton	0.91	$118.30	IL TRM v7 vol3	64	2,807.1338	Calculated Value
307	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	303	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	259.5291	Calculated Value
308	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	304	Multi-Family	HVAC		per ton	0.91	$118.30	IL TRM v7 vol3	64	2,807.1338	Calculated Value
309	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	305	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	259.5291	Calculated Value
310	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC: MF	306	Multi-Family	HVAC		per ton	0.91	$76.07	IL TRM v7 vol3	64	274.6977	Calculated Value
311	Hard-to-Reach Homes	ASHP SEER 16 - Replace Electric Resistance Heat	307	Single Family	HVAC		per ton	0.91	$76.07	IL TRM v7 vol3	64	274.6600	Calculated Value
312	Hard-to-Reach Homes	ASHP SEER 17	308	Single Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	309.0343	Calculated Value
313	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement	309	Single Family	HVAC		per ton	0.91	$200.02	IL TRM v7 vol3	64	1,641.3711	Calculated Value
314	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement (Future)	310	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	64	401.3833	Calculated Value
315	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF	311	Multi-Family	HVAC		per ton	0.91	$200.02	IL TRM v9 vol3	74	1,641.3711	Calculated Value
316	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF (F	312	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	74	401.3833	Calculated Value
317	Hard-to-Reach Homes	ASHP SEER 17 - replace electric furnace / CAC: MF	313	Multi-Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	389.2272	Calculated Value
318	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat	314	Single Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	389.1739	Calculated Value
319	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	315	Single Family	HVAC		per ton	0.91	$200.02	IL TRM v7 vol3	64	3,534.0973	Calculated Value
320	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	316	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	454.7693	Calculated Value
321	Hard-to-Reach Homes	ASHP SEER 18	317	Single Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	430.3352	Calculated Value
322	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement	318	Single Family	HVAC		per ton	0.91	$200.02	IL TRM v7 vol3	64	1,698.2127	Calculated Value
323	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	319	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	64	446.6861	Calculated Value
324	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF	320	Multi-Family	HVAC		per ton	0.91	$200.02	IL TRM v9 vol3	74	1,698.2127	Calculated Value
325	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF (F	321	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	74	446.6861	Calculated Value
326	Hard-to-Reach Homes	ASHP SEER 18 - replace electric furnace / CAC: MF	322	Multi-Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	430.3742	Calculated Value
327	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat	323	Single Family	HVAC		per ton	0.91	$157.79	IL TRM v7 vol3	64	430.3151	Calculated Value
328	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	324	Single Family	HVAC		per ton	0.91	$200.02	IL TRM v7 vol3	64	3,608.6362	Calculated Value
329	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	325	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	505.3352	Calculated Value
330	Hard-to-Reach Homes	ASHP SEER 21	326	Single Family	HVAC		per ton	0.91	$344.93	IL TRM v7 vol3	64	515.7697	Calculated Value
331	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement	327	Single Family	HVAC		per ton	0.91	$387.16	IL TRM v7 vol3	64	2,151.1413	Calculated Value
332	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement (Future)	328	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	64	642.3962	Calculated Value
333	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat	329	Single Family	HVAC		per ton	0.91	$344.93	IL TRM v7 vol3	64	515.7904	Calculated Value
334	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	330	Single Family	HVAC		per ton	0.91	$387.16	IL TRM v7 vol3	64	3,730.1809	Calculated Value
335	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	331	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v7 vol3	65	606.7530	Calculated Value
336	Hard-to-Reach Homes	Bathroom Exhaust Fan (Int.)	332	Multi-Family	HVAC	In unit	per fan	0.91	$43.50	IL TRM v9 vol3	136	35.3815	Calculated Value
337	Hard-to-Reach Homes	CAC SEER 15	333	Single Family	HVAC		per ton	0.91	$38.64	IL TRM v9 vol3 (assumec	91	137.1101	Calculated Value
338	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement	334	Single Family	HVAC		per ton	0.91	$66.89	IL TRM v9 vol3	91	686.8164	Calculated Value
339	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement (Future)	335	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	186.4756	Calculated Value
340	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF	336	Multi-Family	HVAC		per ton	0.91	$66.89	IL TRM v9 vol3	91	686.8164	Calculated Value

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
341	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF (Future)	337	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	186.4756	Calculated Value
342	Hard-to-Reach Homes	CAC SEER 15 - Replace at Fail: MF	338	Multi-Family	HVAC		per ton	0.91	$38.64	IL TRM v9 vol3 (assumec	91	137.0874	Calculated Value
343	Hard-to-Reach Homes	CAC SEER 16	339	Single Family	HVAC		per ton	0.91	$70.93	IL TRM v9 vol3 (assumec	91	174.8338	Calculated Value
344	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement	340	Single Family	HVAC		per ton	0.91	$99.18	IL TRM v9 vol3	91	737.5786	Calculated Value
345	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement (Future)	341	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	237.2378	Calculated Value
346	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF	342	Multi-Family	HVAC		per ton	0.91	$99.18	IL TRM v9 vol3	91	737.5786	Calculated Value
347	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF (Future)	343	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	237.2378	Calculated Value
348	Hard-to-Reach Homes	CAC SEER 16 - Replace at Fail: MF	344	Multi-Family	HVAC		per ton	0.91	$70.93	IL TRM v9 vol3 (assumec	91	174.8050	Calculated Value
349	Hard-to-Reach Homes	CAC SEER 17	345	Single Family	HVAC		per ton	0.91	$184.93	IL TRM v9 vol3 (assumec	91	186.8610	Calculated Value
350	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement	346	Single Family	HVAC		per ton	0.91	$213.18	IL TRM v9 vol3	91	752.8239	Calculated Value
351	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement (Future)	347	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	252.4831	Calculated Value
352	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement	348	Single Family	HVAC		per ton	0.91	$240.61	IL TRM v9 vol3 (assumec	91	1,058.8559	Calculated Value
353	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement (Future)	349	Single Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	391.7348	Calculated Value
354	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF	350	Multi-Family	HVAC		per ton	0.91	$224.93	IL TRM v9 vol3	91	1,297.2050	Calculated Value
355	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF (Future)	351	Multi-Family	HVAC		per ton	0.91	$0.00	IL TRM v9 vol3	91	463.3037	Calculated Value
356	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail	352	Single Family	HVAC		per ton	0.91	$212.36	IL TRM v9 vol3	91	223.0022	Calculated Value
357	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail: MF	353	Multi-Family	HVAC		per ton	0.91	$196.68	IL TRM v9 vol3 (assumec	91	202.1882	Calculated Value
358	Hard-to-Reach Homes	ENERGY STAR Bathroom Exhaust Fan (Int.)	354	Multi-Family	HVAC	In unit	per fan	0.91	$43.50	IL TRM v9 vol3	136	24.9968	Calculated Value
359	Hard-to-Reach Homes	ENERGY STAR Clothes Dryers	355	Single Family	Appliances		per dryer	1.00	$152.00	IL TRM v9 vol3	47	153.5919	Calculated Value
360	Hard-to-Reach Homes	ENERGY STAR Clothes Washers	356	Single Family	Appliances		per washer	1.00	$84.00	IL TRM v9 vol3	8	64.3957	Calculated Value
361	Hard-to-Reach Homes	ENERGY STAR Clothes Washers_CEE Tier 2	357	Single Family	Appliances		per washer	1.00	$141.00	IL TRM v9 vol3	8	116.1888	Calculated Value
362	Hard-to-Reach Homes	ENERGY STAR Freezers	358	All	Appliances		per freezer	1.00	$35.00	IL TRM v9 vol3	26	61.9474	Calculated Value
363	Hard-to-Reach Homes	ENERGY STAR Refrigerators	359	All	Appliances		per refrigerator	1.00	$40.00	IL TRM v9 vol3	28	52.0284	Calculated Value
364	Hard-to-Reach Homes	Energy Star Vented Electric, Compact (240V) (< 4.4 ft3)	360	C&I	Misc		per dryer	1.00	$152.00	IL TRM v6 vol3	46	62.1331	Calculated Value
365	Hard-to-Reach Homes	Energy Star Vented or Ventless Electric, Compact (120V)	361	C&I	Misc		per dryer	1.00	$152.00	IL TRM v6 vol3	46	56.1370	Calculated Value
366	Hard-to-Reach Homes	Energy Star Ventless Electric, Compact (240V) (< 4.4 ft3)	362	C&I	Misc		per dryer	1.00	$152.00	IL TRM v6 vol3	46	78.3105	Calculated Value
367	Hard-to-Reach Homes	Exterior Lighting - Photosensor Control	363	Multi-family	Lighting		per controlled fixtur	1.00	$9.47	MI TRM 2019 Photo Cell Daylight Senso		27.0312	MI TRM 2019 Photo
368	Hard-to-Reach Homes	GSHP - EER 23_Replace Electric Furnace at Fail / Time of	364	Single Family	HVAC		per ton	0.91	$6,131.74	Program Tracking Data		2,432.7734	Calculated Value
369	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 23	365	Single Family	All		per ton	0.91	$574.00	IL TRM v9 vol3	152	2,301.6640	Calculated Value
370	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 30	366	Single Family	All		per ton	0.91	$1,246.00	IL TRM v9 vol3	152	2,482.4151	Calculated Value
371	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	367	Single Family	Hot Water		per water heater	1.00	$700.00	IL TRM v9 vol3	201	1,817.9871	Calculated Value
372	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	368	Single Family	Hot Water		per water heater	1.00	$800.00	IL TRM v9 vol3	201	2,486.0194	Calculated Value
373	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: ASHP	369	Single Family	HVAC		per ton	1.00	$58.33	IL TRM v7 vol3	127	130.6089	Calculated Value
374	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: CAC	370	Single Family	HVAC		per ton	1.00	$58.33	IL TRM v7 vol3	127	50.6976	Calculated Value
375	Hard-to-Reach Homes	Income-Eligible Multi-Family Custom Measure	371	Multi-Family	All		per participant	1.00	$90.00			357.9632	
376	Hard-to-Reach Homes	Increased Ceiling Insulation	372	Single Family	HVAC - Shell		per sq ft	1.00	$3.80	Program Tracking Data, with 50% co-de		0.9110	Calculated Value
377	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_MF	373	Single Family	HVAC - Shell		per sq ft	1.00	$1.86	Program Tracking Data, with 50% co-de		0.3889	Calculated Value
378	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_SF	374	Single Family	HVAC - Shell		per sq ft	1.00	$3.80	Program Tracking Data, with 50% co-de		1.6058	Calculated Value
379	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_MF	375	Single Family	HVAC - Shell		per sq ft	1.00	$1.79	Program Tracking Data, with 50% co-de		0.1950	Calculated Value
380	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_SF	376	Single Family	HVAC - Shell		per sq ft	1.00	$3.80	Program Tracking Data, with 50% co-de		0.3815	Calculated Value
381	Hard-to-Reach Homes	Increased Ceiling Insulation_HP_MF	377	Single Family	HVAC - Shell		per sq ft	1.00	$1.86	Program Tracking Data, with 50% co-de		0.2576	Calculated Value
382	Hard-to-Reach Homes	LED Exit Sign_MF	378	Multi-Family	Lighting	Common Are	per sign	1.00	$5.85	IL TRM v9 vol2	508	62.2212	Calculated Value
383	Hard-to-Reach Homes	LED Flood Light (<15W) (Exterior)	379	Single Family	Lighting		per lamp	1.00	$41.39	IL TRM v9 vol3	282	212.7082	Calculated Value
384	Hard-to-Reach Homes	LED Nightlights	380	Single Family	Lighting		per nightlight	0.70	$3.35	IL TRM v9 vol3	294	16.5071	Calculated Value
385	Hard-to-Reach Homes	Linear Lighting (MF Common area)	381	Multi-Family	Lighting		per lamp	1.00	$13.67	IL TRM v9 vol3	282	53.0514	Calculated Value
386	Hard-to-Reach Homes	Low Flow Faucet Aerator-Bathroom	382	Single Family	Hot Water	Kits	per aerator	1.00	$7.61	IL TRM v9 vol3	207	18.8560	Calculated Value
387	Hard-to-Reach Homes	Low Flow Faucet Aerator-Kitchen	383	Single Family	Hot Water	Kits	per aerator	1.00	$7.61	IL TRM v9 vol3	207	68.9867	Calculated Value
388	Hard-to-Reach Homes	Low Flow Showerhead	384	Single Family	Hot Water	Kits	per showerhead	1.00	$11.61	IL TRM v9 vol3	217	80.1055	Calculated Value

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	A	B	C	D	E	F	G	H	I	J	K	L	M
3	*Measure Description*								*Gross Measure Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
389	Hard-to-Reach Homes	Room AC Units	385	All	HVAC		per device	1.00	$40.00	IL TRM v9 vol3	35	32.0894	Calculated Value
390	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Exterior)	386	Multi-Family	Lighting	Common Are	per bulb	1.00	$4.00	Program Tracking Data		80.9502	Calculated Value
391	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Interior)	387	Multi-Family	Lighting	Common Are	per bulb	1.00	$3.75	Program Tracking Data		31.3233	Calculated Value
392	Hard-to-Reach Homes	Screw In - LEDs (In-Unit)	388	All	Lighting		per bulb	0.70	$3.71	IL TRM v7 vol3	269	21.8336	Calculated Value
393	Hard-to-Reach Homes	Screw In - Specialty LEDs	389	All	Lighting		per lamp	0.70	$1.65	Evergy 2019/2020 historic specialty LED		20.8024	Calculated Value
394	Hard-to-Reach Homes	Screw In - Specialty LEDs (Exterior)	390	Single Family	Lighting		per lamp	0.70	$1.65	IL TRM v9 vol2	501	75.7628	Calculated Value
395	Whole Home Efficiency	Air Sealing - 30% MF AC	391	Single Family	HVAC - Shell		per sq ft	0.82	$0.06	Program Tracking Data, with 50% co-de		0.0969	Calculated Value
396	Whole Home Efficiency	Air Sealing - 30% SF AC	392	Single Family	HVAC - Shell		per sq ft	0.82	$0.12	Program Tracking Data, with 50% co-de		0.1858	Calculated Value
397	Whole Home Efficiency	Air Sealing - 30% MF AC/ER	393	Single Family	HVAC - Shell		per sq ft	0.82	$0.06	Program Tracking Data, with 50% co-de		0.1918	Calculated Value
398	Whole Home Efficiency	Air Sealing - 30% MF ASHP	394	Single Family	HVAC - Shell		per sq ft	0.82	$0.06	Program Tracking Data, with 50% co-de		0.1313	Calculated Value
399	Whole Home Efficiency	Air Sealing - 30% SF AC/ER	395	Single Family	HVAC - Shell		per sq ft	0.82	$0.12	Program Tracking Data, with 50% co-de		0.7547	Calculated Value
400	Whole Home Efficiency	Air Sealing - 30% SF ASHP	396	Single Family	HVAC - Shell		per sq ft	0.82	$0.12	Program Tracking Data, with 50% co-de		0.4388	Calculated Value
401	Whole Home Efficiency	Air Sealing - 50% MF AC	397	Single Family	HVAC - Shell		per sq ft	0.87	$0.06	Program Tracking Data, with 50% co-de		0.1659	Calculated Value
402	Whole Home Efficiency	Air Sealing - 50% SF AC	398	Single Family	HVAC - Shell		per sq ft	0.87	$0.12	Program Tracking Data, with 50% co-de		0.3129	Calculated Value
403	Whole Home Efficiency	Air Sealing - 50% MF AC/ER	399	Single Family	HVAC - Shell		per sq ft	0.87	$0.06	Program Tracking Data, with 50% co-de		0.3268	Calculated Value
404	Whole Home Efficiency	Air Sealing - 50% MF ASHP	400	Single Family	HVAC - Shell		per sq ft	0.87	$0.06	Program Tracking Data, with 50% co-de		0.2231	Calculated Value
405	Whole Home Efficiency	Air Sealing - 50% SF AC/ER	401	Single Family	HVAC - Shell		per sq ft	0.87	$0.12	Program Tracking Data, with 50% co-de		1.2698	Calculated Value
406	Whole Home Efficiency	Air Sealing - 50% SF ASHP	402	Single Family	HVAC - Shell		per sq ft	0.87	$0.12	Program Tracking Data, with 50% co-de		0.7375	Calculated Value
407	Whole Home Efficiency	ASHP SEER 16	403	Single Family	HVAC		per ton	0.82	$76.07	IL TRM v7 vol3	64	248.0391	Calculated Value
408	Whole Home Efficiency	ASHP SEER 16 - Early Replacement	404	Single Family	HVAC		per ton	0.82	$118.30	IL TRM v7 vol3	64	1,815.6388	Calculated Value
409	Whole Home Efficiency	ASHP SEER 16 - Early Replacement (Future)	405	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v9 vol3	64	331.4075	Calculated Value
410	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	406	Single Family	HVAC		per ton	0.82	$118.30	IL TRM v7 vol3	64	2,807.1338	Calculated Value
411	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	407	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v9 vol3	64	259.5291	Calculated Value
412	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	408	Multi-Family	HVAC		per ton	0.82	$118.30	IL TRM v7 vol3	64	2,807.1338	Calculated Value
413	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	409	Multi-Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	65	259.5291	Calculated Value
414	Whole Home Efficiency	ASHP SEER 16 - Replace Electric Resistance Heat	410	Single Family	HVAC		per ton	0.82	$76.07	IL TRM v7 vol3	64	247.4858	Calculated Value
415	Whole Home Efficiency	ASHP SEER 17	411	Single Family	HVAC		per ton	0.82	$157.79	IL TRM v7 vol3	64	278.3945	Calculated Value
416	Whole Home Efficiency	ASHP SEER 17 - Early Replacement	412	Single Family	HVAC		per ton	0.82	$200.02	IL TRM v7 vol3	64	1,969.6453	Calculated Value
417	Whole Home Efficiency	ASHP SEER 17 - Early Replacement (Future)	413	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	64	481.6599	Calculated Value
418	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat	414	Single Family	HVAC		per ton	0.82	$157.79	IL TRM v7 vol3	64	350.6698	Calculated Value
419	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	415	Single Family	HVAC		per ton	0.82	$200.02	IL TRM v7 vol3	64	3,534.0973	Calculated Value
420	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	416	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	65	454.7693	Calculated Value
421	Whole Home Efficiency	ASHP SEER 18	417	Single Family	HVAC		per ton	0.82	$157.79	IL TRM v7 vol3	64	387.6687	Calculated Value
422	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement	418	Single Family	HVAC		per ton	0.82	$200.02	IL TRM v7 vol3	64	2,037.8552	Calculated Value
423	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	419	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	64	536.0233	Calculated Value
424	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat	420	Single Family	HVAC		per ton	0.82	$157.79	IL TRM v7 vol3	64	387.7407	Calculated Value
425	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	421	Single Family	HVAC		per ton	0.82	$200.02	IL TRM v7 vol3	64	3,608.6362	Calculated Value
426	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	422	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	65	505.3352	Calculated Value
427	Whole Home Efficiency	ASHP SEER 21	423	Single Family	HVAC		per ton	0.82	$344.93	IL TRM v7 vol3	64	464.6327	Calculated Value
428	Whole Home Efficiency	ASHP SEER 21 - Early Replacement	424	Single Family	HVAC		per ton	0.82	$387.16	IL TRM v7 vol3	64	2,151.1413	Calculated Value
429	Whole Home Efficiency	ASHP SEER 21 - Early Replacement (Future)	425	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	64	642.3962	Calculated Value
430	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat	426	Single Family	HVAC		per ton	0.82	$344.93	IL TRM v7 vol3	64	464.7190	Calculated Value
431	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	427	Single Family	HVAC		per ton	0.82	$387.16	IL TRM v7 vol3	64	3,730.1809	Calculated Value
432	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	428	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v7 vol3	65	606.7530	Calculated Value
433	Whole Home Efficiency	CAC SEER 16	429	Single Family	HVAC		per ton	0.82	$70.93	IL TRM v9 vol3 (assumec	91	157.5833	Calculated Value
434	Whole Home Efficiency	CAC SEER 16 - Early Replacement	430	Single Family	HVAC		per ton	0.82	$99.18	IL TRM v9 vol3	91	983.4381	Calculated Value
435	Whole Home Efficiency	CAC SEER 16 - Early Replacement (Future)	431	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v9 vol3	91	316.3170	Calculated Value
436	Whole Home Efficiency	CAC SEER 17	432	Single Family	HVAC		per ton	0.82	$184.93	IL TRM v9 vol3 (assumec	91	168.4238	Calculated Value

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4	**Program**	**Measure Name**	**Primary Key**	**Segment**	**End Use**	**Notes**	**Unit Definition**	**Net to Gross Factors**	**Incremental Measure Cost ($/Unit)**	**Incremental Measure Cost Source**	**Incremental Measure Cost Source Page Number**	**Electric Energy Savings (Annual kWh/unit)**	**Electric Energy Savings (Annual kWh/unit) Source**
437	Whole Home Efficiency	CAC SEER 17 - Early Replacement	433	Single Family	HVAC		per ton	0.82	$213.18	IL TRM v9 vol3	91	1,003.7652	Calculated Value
438	Whole Home Efficiency	CAC SEER 17 - Early Replacement (Future)	434	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v9 vol3	91	336.6441	Calculated Value
439	Whole Home Efficiency	CAC SEER 17+ - Early Replacement	435	Single Family	HVAC		per ton	0.82	$240.61	IL TRM v9 vol3 (assumec	91	1,593.7929	Calculated Value
440	Whole Home Efficiency	CAC SEER 17+ - Early Replacement (Future)	436	Single Family	HVAC		per ton	0.82	$0.00	IL TRM v9 vol3	91	593.1113	Calculated Value
441	Whole Home Efficiency	CAC SEER 17+ - Replace at Fail	437	Single Family	HVAC		per ton	0.82	$212.36	IL TRM v9 vol3	91	201.4223	Calculated Value
442	Whole Home Efficiency	Dehumidifier Recycling	438	Res-All	Plug Loads		per dehumidifier	1.00	$42.76	MO TRM vol 3-3.1.6		772.7446	IL TRM v8 -5.1.3
443	Whole Home Efficiency	Dehumidifiers	439	All	Misc		per dehumidifier	1.00	$10.29	IL TRM v9 vol3 (assumin	17	101.9562	Calculated Value
444	Whole Home Efficiency	Dehumidifiers_ENERGY STAR Most Efficient	440	All	Misc		per dehumidifier	1.00	$75.00	IL TRM v9 vol3 (assumin	17	247.2561	Calculated Value
445	Whole Home Efficiency	Duct Repair and Sealing	441	Single Family	HVAC		per home	0.87	$435.96	Program Tracking Data		878.1230	Calculated Value
446	Whole Home Efficiency	Duct Repair and Sealing_MF	442	Single Family	HVAC		per home	0.87	$105.94	Program Tracking Data		123.7960	Calculated Value
447	Whole Home Efficiency	ENERGY STAR Freezers	443	All	Appliances		per freezer	1.00	$35.00	IL TRM v9 vol3	26	61.8956	Calculated Value
448	Whole Home Efficiency	ENERGY STAR Pool Pump and motor w/ auto controls - n	444	All	Misc		per pump	1.00	$839.50	IL TRM v9 vol3	365	1,545.7136	Calculated Value
449	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 201+	445	All	Misc		per air purifier	1.00	$70.00	IL TRM v9 vol3	7	1,050.2342	Calculated Value
450	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 51-200	446	All	Misc		per air purifier	1.00	$70.00	IL TRM v9 vol3	7	507.6386	Calculated Value
451	Whole Home Efficiency	ENERGY STAR VFDs on Residential Swimming Pool Pump	447	All	Misc		per pump	1.00	$217.50	IL TRM v9 vol3	296	1,421.0242	Calculated Value
452	Whole Home Efficiency	Exterior Lighting - Photosensor Control	448	Multi-Family	Lighting		per controlled fixtur	0.70	$9.47	MI TRM 2019 Photo Cell Daylight Senso		18.9266	MI TRM 2019 Photo
453	Whole Home Efficiency	Freezer Recycling	449	Single Family	Appliances		per freezer	1.00	$140.00	IL TRM v9 vol3	39	474.3252	Calculated Value
454	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 23	450	Single Family	All		per ton	0.82	$574.00	IL TRM v9 vol3	152	2,073.7627	Calculated Value
455	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 30	451	Single Family	All		per ton	0.82	$1,246.00	IL TRM v9 vol3	152	2,236.6165	Calculated Value
456	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	452	Single Family	Hot Water		per water heater	1.00	$700.00	IL TRM v9 vol3	201	1,816.3545	Calculated Value
457	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	453	Single Family	Hot Water		per water heater	1.00	$800.00	IL TRM v9 vol3	201	2,481.7737	Calculated Value
458	Whole Home Efficiency	High Efficiency Sound Bars	454	Res-All	Plug Loads		per unit	1.00	$0.00	Wisconsin Focus on Energy 2019 TRM		51.4731	Wisconsin Focus or
459	Whole Home Efficiency	High Efficiency Water Cooler_Cold Water Only	455	Res-All	Plug Loads		per water cooler	1.00	$17.00	IL TRM v8-5.1.11		48.5783	IL TRM v8-5.1.11
460	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-On D	456	Res-All	Plug Loads		per water cooler	1.00	$17.00	IL TRM v8-5.1.11		58.4400	IL TRM v8-5.1.11
461	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-Stora	457	Res-All	Plug Loads		per water cooler	1.00	$17.00	IL TRM v8-5.1.11		125.2808	IL TRM v8-5.1.11
462	Whole Home Efficiency	HVAC Maintenance and Tune-up_SF: CAC	458	Single Family	HVAC		per ton	0.91	$58.33	IL TRM v7 vol3	127	50.6847	Calculated Value
463	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC/ER_SF	459	Single Family	Space Heating		per sq ft	0.87	$1.85	NREL		1.6738	Calculated
464	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC_SF	460	Single Family	Furnace Fans		per sq ft	0.87	$1.85	NREL		0.2937	Calculated
465	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_HP_SF	461	Single Family	Space Heating		per sq ft	0.87	$1.85	NREL		0.9112	Calculated
466	Whole Home Efficiency	LED Exit Sign_MF	462	Multi-Family	Lighting	Common Are	per sign	0.70	$5.85	IL TRM v9 vol2	508	43.5661	Calculated Value
467	Whole Home Efficiency	LED Flood Light (<15W) (Exterior)	463	Single Family	Lighting		per lamp	0.70	$41.39	IL TRM v9 vol3	282	148.9342	Calculated Value
468	Whole Home Efficiency	LED Nightlights	464	Single Family	Lighting		per nightlight	0.70	$3.35	IL TRM v9 vol3	294	16.7056	Calculated Value
469	Whole Home Efficiency	Linear Lighting (MF Common area)	465	Multi-Family	Lighting		per lamp	0.70	$13.67	IL TRM v9 vol3	282	37.1454	Calculated Value
470	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	466	Single Family	Hot Water	Kits	per aerator	1.00	$7.62	IL TRM v9 vol3	207	16.9115	Calculated Value
471	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	467	Single Family	Hot Water	Kits	per aerator	1.00	$7.62	IL TRM v9 vol3	207	73.5436	Calculated Value
472	Whole Home Efficiency	Low Flow Showerhead	468	Single Family	Hot Water	Kits	per showerhead	1.00	$11.62	IL TRM v9 vol3	217	77.8909	Calculated Value
473	Whole Home Efficiency	Low-E storm Windows_AC/ER_MF	469	Multi-Family	Space Heating		per sq ft	0.87	$5.06	MO TRM 2017 3.7.6 Storm Windows		1.8106	Calculated
474	Whole Home Efficiency	Low-E storm Windows_AC/ER_SF	470	Single Family	Space Heating		per sq ft	0.87	$10.36	MO TRM 2017 3.7.6 Storm Windows		7.8595	Calculated
475	Whole Home Efficiency	Low-E storm Windows_AC_MF	471	Multi-Family	Cooling		per sq ft	0.87	$5.06	MO TRM 2017 3.7.6 Storm Windows		0.5728	Calculated
476	Whole Home Efficiency	Low-E storm Windows_AC_SF	472	Single Family	Cooling		per sq ft	0.87	$10.36	MO TRM 2017 3.7.6 Storm Windows		1.0596	Calculated
477	Whole Home Efficiency	Low-E storm Windows_HP_MF	473	Multi-Family	Space Heating		per sq ft	0.87	$5.06	MO TRM 2017 3.7.6 Storm Windows		1.1534	Calculated
478	Whole Home Efficiency	Low-E storm Windows_HP_SF	474	Single Family	Space Heating		per sq ft	0.87	$10.36	MO TRM 2017 3.7.6 Storm Windows		4.3461	Calculated
479	Whole Home Efficiency	Ozone Laundry	475	Single Family	Hot Water		per washer	1.00	$23.54	IL TRM v8-5.1.12		87.5574	Calculated
480	Whole Home Efficiency	Pool Pump Timer	476	C&I	Motor		per timer	1.00	$100.00	Ameren MO TRM 2018	181	352.9760	Calculated Value
481	Whole Home Efficiency	Refrigerator Recycling	477	Single Family	Appliances		per refrigerator	1.00	$140.00	IL TRM v9 vol3	39	694.1762	Calculated Value
482	Whole Home Efficiency	Room Air Conditioner Recycling	478	Single Family	Appliances		per device	1.00	$98.00	Use Actual		389.3285	Calculated Value
483	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Exterior)	479	Multi-Family	Lighting	Common Are	per bulb	0.70	$4.01	Program Tracking Data		56.6860	Calculated Value
484	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Interior)	480	Multi-Family	Lighting	Common Are	per bulb	0.70	$3.76	Program Tracking Data		21.9338	Calculated Value

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485	Whole Home Efficiency	Screw In - LEDs (In-Unit)	481	All	Lighting		per bulb	0.70	$1.47	IL TRM v7 vol3	269	21.1209	Calculated Value
486	Whole Home Efficiency	Screw In - Specialty LEDs	482	All	Lighting		per lamp	0.70	$1.65	Evergy 2019/2020 historic specialty LED		20.9558	Calculated Value
487	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	483	Single Family	Lighting		per lamp	0.70	$1.65	IL TRM v9 vol2	501	75.7797	Calculated Value
488	Whole Home Efficiency	Shade Tree	484	All	HVAC		per tree	1.00	$53.29			29.6030	Arbor Day Foundat
489	Whole Home Efficiency	Smart Power Strip - Wh7-Plug	485	All	Electronics		per power strip	1.00	$10.00	IL TRM v9 vol3	63	101.9456	IL TRM v9 vol3
490	Whole Home Efficiency	Variable Speed Pump - MF Hot Water Recirculation	486	C&I	Pumps/Fans		per pump	1.00	$902.11	WI TRM 2018	937	3,353.6730	Calculated Value
491	Whole Home Efficiency	Water Heater - Solar System	487	Single Family	Hot Water		per water heater	1.00	$4,500.00	MI TRM 2019, Solar Domestic Hot Wate		2,192.2031	Calculated
492	Whole Home Efficiency	Water Heater Tank Wrap_40 gallon	488	Single Family	Hot Water	Kits	per tank	1.00	$30.00	Program Tracking Data		178.4269	Calculated Value
493	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon	489	Single Family	Hot Water	Kits	per tank	1.00	$30.00	Program Tracking Data		194.4034	Calculated Value
494	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon_MF	490	Single Family	Hot Water	Kits	per tank	1.00	$30.00	Program Tracking Data		195.3004	Calculated Value
495	Whole Home Efficiency	Water Heater Tank Wrap_80 gallon	491	Single Family	Hot Water	Kits	per tank	1.00	$30.00	Program Tracking Data		206.5515	Calculated Value
496	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_MF	492	Multi-Family	Space Heating		per sq ft	0.87	$0.73	MI TRM 2019, Window Film SHGC =0.3		1.0507	Calculated
497	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_SF	493	Single Family	Space Heating		per sq ft	0.87	$1.53	MI TRM 2019, Window Film SHGC =0.3		2.0366	Calculated
498	Home Energy Education	Behavioral Measures Tier 1	494	Single Family	All		per participant	1.00	$0.00			146.6861	
499	Home Energy Education	Behavioral Measures Tier 2	495	Single Family	All		per home	1.00	$0.00			104.2326	
500	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	496	Single Family	Hot Water	Kits	per aerator	1.00	$3.00	IL TRM v9 vol3	207	15.4881	Calculated Value
501	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	497	Single Family	Hot Water	Kits	per aerator	1.00	$3.00	IL TRM v9 vol3	207	17.2726	Calculated Value
502	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	498	Single Family	Hot Water	Kits	per aerator	1.00	$3.00	IL TRM v9 vol3	207	106.0056	Calculated Value
503	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	499	Single Family	Hot Water	Kits	per aerator	1.00	$3.00	IL TRM v9 vol3	207	100.3254	Calculated Value
504	Whole Home Efficiency	Low Flow Showerhead	500	Single Family	Hot Water	Kits	per showerhead	1.00	$7.00	IL TRM v9 vol3	217	76.9000	Calculated Value
505	Whole Home Efficiency	Low Flow Showerhead	501	Single Family	Hot Water	Kits	per showerhead	1.00	$7.00	IL TRM v9 vol3	217	79.7575	Calculated Value
506	Whole Home Efficiency	Screw In - LEDs (In-Unit)	502	All	Lighting		per bulb	0.70	$2.68	IL TRM v7 vol3	269	22.0372	Calculated Value
507	Whole Home Efficiency	Screw In - Specialty LEDs	503	All	Lighting		per lamp	0.70	$1.65	Evergy 2019/2020 historic specialty LED		20.8836	Calculated Value
508	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	504	Single Family	Lighting		per lamp	0.70	$1.65	IL TRM v9 vol2	501	75.7565	Calculated Value

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Measure Description

Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
Business Demand Response	DR Auto DR and Manual DLC	1						43.6887				
Whole Business Efficiency	Advanced Water Heater Controls	2						0.3573				
Whole Business Efficiency	Air Conditioner Tune-up	3			91.3%	IL TRM v8, 4.4.1		0.0451	IL TRM v8, 4.4.1			
Whole Business Efficiency	Air Curtains (Dryer)	4						1.8102				
Whole Business Efficiency	Air Curtains (Oven)	5						1.8102				
Whole Business Efficiency	Air-Cooled Chiller	6	200		91.3%	IL TRM v9 vol2	201	0.6182	IL TRM v9 vol2	201		
Whole Business Efficiency	Air-Source Heat Pump =240,000 and <760,000 Btu/h	7		0.0319	91.3%	IL TRM v6 vol2	165	0.0969	Calculated Value			
Whole Business Efficiency	Air-Source Heat Pump =65,000 and <135,000 Btu/h	8		0.0104	91.3%	IL TRM v6 vol2	165	0.0887	Calculated Value			
Whole Business Efficiency	ASHP >240kbtu	9		0.0319	91.3%	IL TRM v6 vol2	165	0.0969	Calculated Value			
Whole Business Efficiency	ASHP 65 - 135kbtu_Replacing ER	10		0.0104	91.3%	IL TRM v6 vol2	165	0.0888	Calculated Value			
Whole Business Efficiency	Automated Temperature Control	11						-				
Whole Business Efficiency	Automatic door closer for walk-in freezers	12	571				0	0.3055	IL TRM v9	572		
Whole Business Efficiency	Automatic door closer for walk-in coolers	13	571				0	0.1355	IL TRM v9	571		
Whole Business Efficiency	Business Custom - Cooking	14						9.0692				
Whole Business Efficiency	Business Custom - HVAC	15						20.6294				
Whole Business Efficiency	Business Custom - Lighting	16						27.7624				
Whole Business Efficiency	Business Custom - Misc	17						32.1007				
Whole Business Efficiency	Business Custom - New Construction	18						6.5299				
Whole Business Efficiency	Business Custom - Refrigeration	19						15.9452				
Whole Business Efficiency	Business Custom - Retrocomisioning	20						4.9964				
Whole Business Efficiency	CAC >240 kBtuh_CEE Advanced Tier	21		0.0707	91.0%	IL TRM v6 vol2	204	0.0560	Calculated Value		1000	IL TRM v6 vol2
Whole Business Efficiency	CAC >240 kBtuh_CEE Tier 2	22		0.0707	91.0%	IL TRM v6 vol2	204	0.0559	Calculated Value		1000	IL TRM v6 vol2
Whole Business Efficiency	Chiller Tune-up/Diagnostics_Air Cooled	23						0.1643	Calculated			
Whole Business Efficiency	Chiller Tune-up/Diagnostics_Water Cooled	24						0.3151	Calculated			
Whole Business Efficiency	Demand Controlled Ventillation (Electric Heat)	25			0.0%	IL TRM v6 vol2	226	-	Calculated Value			
Whole Business Efficiency	Demand Controlled Ventillation (Heat Pump)	26			0.0%	IL TRM v6 vol2	226	-	Calculated Value			
Whole Business Efficiency	Demand-Controlled Ventilation	27			0.0%	IL TRM v6 vol2	226	-	Calculated Value			
Whole Business Efficiency	Destratification Fans	28						-				
Whole Business Efficiency	Door heater controls for cooler (Conductivity-based cont	29			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
Whole Business Efficiency	Door heater controls for cooler (Humidity-based control	30			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
Whole Business Efficiency	Door heater controls for freezer (Conductivity-based cor	31			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
Whole Business Efficiency	Door heater controls for freezer (Humidity-based contro	32			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
Whole Business Efficiency	Doors, Covers and Curtains	33						1.2019				
Whole Business Efficiency	ECM Motors Walk-In Coolers & Freezers	34	516		100.0%	IL TRM v5 vol2	448	0.1915	IL TRM v7 vol2	450		
Whole Business Efficiency	Efficient Lighting Design	35						0.9401				
Whole Business Efficiency	Eliminate Air Leaks	36						0.8927				
Whole Business Efficiency	Energy Monitoring and Process Controls (Sub-metering,	37						0.9077				
Whole Business Efficiency	ENERGY STAR Beverage Machine w/ software	38	446		0.0%	IL TRM v6 vol2	446	-	IL TRM v6 vol2	446		
Whole Business Efficiency	ENERGY STAR Beverage Machine w/o software	39	446		0.0%	IL TRM v6 vol2	446	-	IL TRM v6 vol2	446		
Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (0 < V <13)	40		0.1295	36.0%	IL TRM v6 vol2	54	0.4170	Calculated Value			
Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (13 = V <28)	41		0.5060	36.0%	IL TRM v6 vol2	54	0.8796	Calculated Value			
Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (28 = V)	42		0.8101	36.0%	IL TRM v6 vol2	54	2.0754	Calculated Value			
Whole Business Efficiency	ENERGY STAR Laptop	43	Laptop Computer		0.0%	Ameren TRM 2.7.1 Laptop Compute		0.0076	Ameren TRM 2.7.1 Laptop Computer			
Whole Business Efficiency	ENERGY STAR Server_W<1500	44	Computer Server		0.0%	Ameren TRM 2.7.4 Computer Server		0.1880	Ameren TRM 2.7.4 Computer Server			
Whole Business Efficiency	ENERGY STAR Server_W=1501-3000	45	Computer Server		0.0%	Ameren TRM 2.7.4 Computer Server		0.5892	Ameren TRM 2.7.4 Computer Server			
Whole Business Efficiency	ENERGY STAR Steam Cooker	46			36.0%	IL TRM v6 vol2	25	4.0863	Calculated Value			
Whole Business Efficiency	Engineered Nozzles	47						13.1859				
Whole Business Efficiency	Exterior LED Linear Tube Light Bulb	48		0.0141	100.0%	IL TRM v6 vol2	337	0.0115	Calculated Value		8766	IL TRM v9

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
53	Whole Business Efficiency	Exterior LED replacing < 175W Fixture or Mogul Screw-B	49		0.1238	0.0%	IL TRM v6 vol2	338	0.0037	Calculated Value		4300	Indiana TRM v1
54	Whole Business Efficiency	Exterior LED replacing > 400W Fixture or Mogul Screw-B	50		0.8927	0.0%	IL TRM v6 vol2	338	0.0267	Calculated Value		4300	Indiana TRM v1
55	Whole Business Efficiency	Exterior LED replacing 175W-250W Fixture or Mogul Scre	51		0.1396	0.0%	IL TRM v6 vol2	338	0.0042	Calculated Value		4300	Indiana TRM v1
56	Whole Business Efficiency	Exterior LED replacing 251W-400W Fixture or Mogul Scre	52		0.1853	0.0%	IL TRM v6 vol2	338	0.0055	Calculated Value		4300	Indiana TRM v1
57	Whole Business Efficiency	Exterior Lighting BiLevel Control w Override, 150 to 1000	53			95.0%			-				
58	Whole Business Efficiency	Floating Head Pressure Controls	54						1.1165				
59	Whole Business Efficiency	Free Cooling	55						-				
60	Whole Business Efficiency	Ground Source Heat Pump	56			91.3%	IL TRM v6 vol2	172	20.7272	Calculated Value			
61	Whole Business Efficiency	Heat Pump Tune-ups	57			91.3%	IL TRM v8, 4.4.1		0.1064	IL TRM v8, 4.4.1			
62	Whole Business Efficiency	High Efficiency Battery Charger (for Forklifts)	58						0.1120				
63	Whole Business Efficiency	High Efficiency Chiller	59						21.2772				
64	Whole Business Efficiency	High Efficiency Dry-Type Transformers	60						0.0108				
65	Whole Business Efficiency	High Efficiency Light Fixtures	61						2.7157				
66	Whole Business Efficiency	High Efficiency Pool Pump	62			100.0%	Calculated Value		1.1718	Calculated Value			
67	Whole Business Efficiency	High Efficiency Rooftop AC	63						9.2976				
68	Whole Business Efficiency	Impeller Trimming (Pump)	64						1.8383				
69	Whole Business Efficiency	Improve Compressor Components	65						0.2591				
70	Whole Business Efficiency	Improve Fan Components	66						0.2798				
71	Whole Business Efficiency	Improve Pump Components	67						0.6686				
72	Whole Business Efficiency	Insulation (Dryer)	68						0.5265				
73	Whole Business Efficiency	Insulation (Furnace)	69						0.4263				
74	Whole Business Efficiency	Insulation (Kiln)	70						0.4263				
75	Whole Business Efficiency	Insulation (Oven)	71						0.5239				
76	Whole Business Efficiency	Integrated Control System	72						1.8002				
77	Whole Business Efficiency	Interior Daylighting Controls Replacing No Controls	73		0.2139	66.0%	IL TRM v6 vol2	337-338 (port	0.3338	Calculated Value		3088	IL TRM v6 vol2
78	Whole Business Efficiency	Interior Directional LED Lamp replacing 50-70W Lamp	74		0.0661	61.9%	IL TRM v5 vol2	340-341(port	0.0754	Calculated Value		3088	IL TRM v6 vol2
79	Whole Business Efficiency	Interior Directional LED Lamp replacing 71-110W Lamp	75		0.1008	61.9%	IL TRM v5 vol2	340-341(port	0.1150	Calculated Value		3088	IL TRM v6 vol2
80	Whole Business Efficiency	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	76		0.0716	75.0%	Indiana TRM v1	171-172 (port	0.1680	Calculated Value		4128	Indiana TRM v1
81	Whole Business Efficiency	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	77		0.0537	75.0%	Indiana TRM v1	171-172 (port	0.0847	Calculated Value		4128	Indiana TRM v1
82	Whole Business Efficiency	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	78		0.0707	75.0%	Indiana TRM v1	171-172 (port	0.1659	Calculated Value		4128	Indiana TRM v1
83	Whole Business Efficiency	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	79		0.0675	75.0%	Indiana TRM v1	171-172 (port	0.1064	Calculated Value		4128	Indiana TRM v1
84	Whole Business Efficiency	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	80		0.0829	67.3%	Navigant Field Work		0.2134	Calculated Value		4143.08656	Navigant Field Wo
85	Whole Business Efficiency	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	81		0.0781	75.0%	Indiana TRM v1	171-172 (port	0.1230	Calculated Value		4128	Indiana TRM v1
86	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 101-155W	82		0.1584	70.0%	Indiana TRM v1	171-172 (port	0.2551	Calculated Value		3933	Indiana TRM v1
87	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 45-60W F	83		0.0619	70.0%	Indiana TRM v1	171-172 (port	0.0997	Calculated Value		3933	Indiana TRM v1
88	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 61-100W	84		0.0936	70.0%	Indiana TRM v1	171-172 (port	0.1508	Calculated Value		3933	Indiana TRM v1
89	Whole Business Efficiency	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lam	85		0.0094	67.0%	IL TRM v9 Unknown V	471	0.0110	Calculated Value		4129	Evergy Logger Ver
90	Whole Business Efficiency	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lam	86		0.0207	67.0%	IL TRM v9 Unknown V	471	0.0223	Calculated Value		4129	Evergy Logger Ver
91	Whole Business Efficiency	Interior Lighting - Embedded Fixture Controls	87	;hting Controls		15.0%	IL TRM v8,4.5.10	Lighting Controls	0.0507	IL TRM v8,4.5.10	Lighting Controls		
92	Whole Business Efficiency	Interior Occupancy or Vacancy Sensor Replacing No Con	88		0.1367	66.0%	IL TRM v6 vol2	337-338 (port	0.1240	Calculated Value		3088	IL TRM v6 vol2
93	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 40-60W Lar	89		0.0549	61.9%	IL TRM v6 vol2	337-338 (port	0.0675	Calculated Value		3088	IL TRM v6 vol2
94	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 61-100W La	90		0.0925	61.9%	IL TRM v6 vol2	337-338 (port	0.1138	Calculated Value		3088	IL TRM v6 vol2
95	Whole Business Efficiency	Kitchen Demand Controlled Ventilation	91	73				0	-	IL TRM v6 vol2	73		
96	Whole Business Efficiency	LED Exit Sign	92		0.0100	100.0%	IL TRM v9 vol2	508	0.0047	Calculated Value		8766	IL TRM v9
97	Whole Business Efficiency	LED Flood Light (<15W)	93		0.0430	0.0%	IL TRM v6 vol2	338	0.0623	Calculated Value		4903	IL TRM v6 vol2
98	Whole Business Efficiency	LED Flood Light (>=15W)	94		0.0482	0.0%	IL TRM v6 vol2	338	0.0771	Calculated Value		4903	IL TRM v6 vol2
99	Whole Business Efficiency	LED High Bay fixture replacing > 750W fixture	95		1.1168	83.0%	IL TRM v6 vol2	337-338 (port	1.3325	Calculated Value		4367	IL TRM v6 vol2
100	Whole Business Efficiency	LED High Bay Fixture replacing 451W - 750W fixture	96		0.5586	83.0%	IL TRM v6 vol2	337-338 (port	0.6666	Calculated Value		4367	IL TRM v6 vol2

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
101	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	97		0.9610	67.0%	IL TRM v9 Unknown V	471	1.1642	Calculated Value		4129	Evergy Logger Ver
102	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	98		0.4752	67.0%	IL TRM v9 Unknown V	471	0.8076	Calculated Value		4129	Evergy Logger Ver
103	Whole Business Efficiency	LED Low Bay Fixture replacing 150W-300W fixture	99		0.1454	83.0%	IL TRM v6 vol2	337-338 (port	0.0864	Calculated Value		4367	IL TRM v6 vol2
104	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	100		0.2346	67.0%	IL TRM v9 Unknown V	471	0.1395	Calculated Value		4129	Evergy Logger Ver
105	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	101		0.2346	67.0%	IL TRM v9 Unknown V	471	0.1434	Calculated Value		4129	Evergy Logger Ver
106	Whole Business Efficiency	LED Low/High Bay Fixture replacing 301W-450W fixture	102		0.2428	66.1%	Navigant Field Work		0.1760	Calculated Value		4431.55536	Navigant Field Wo
107	Whole Business Efficiency	LED low/high bay mogul screw-base lamp/retrofit kit rep	103		0.3359	67.0%	IL TRM v9 Unknown V	471	0.2355	Calculated Value		4129	Evergy Logger Ver
108	Whole Business Efficiency	LED Open Sign	104		0.0100	100.0%	IL TRM v9 vol2	508	0.0314	Calculated Value		8766	IL TRM v9
109	Whole Business Efficiency	Lighting Controls: ON/OFF Timer Settings	105						0.9052				
110	Whole Business Efficiency	Low Flow Faucet Aerator Bathroom	106		2.5123	1.3%	IL TRM v7 vol2	97	0.0549	Calculated Value			
111	Whole Business Efficiency	Low Flow Faucet Aerator Kitchen	107		3.0622	0.6%	IL TRM v5 vol2	97	0.0635	Calculated Value			IL TRM v5 vol2
112	Whole Business Efficiency	Low Pressure-Drop Filters	108						0.0768				
113	Whole Business Efficiency	Match Compressor Size to Load	109						0.3805				
114	Whole Business Efficiency	Match Pump Size to Load	110						2.6745				
115	Whole Business Efficiency	Minimize Operating Air Pressure	111						1.1061				
116	Whole Business Efficiency	Minimum Cylinder Clearance	112						0.5952				
117	Whole Business Efficiency	Networked Lighting Controls	113			15.0%	IL TRM v9	544	0.0002	Calculated Value			
118	Whole Business Efficiency	Open Display Case_Low Temperature	114	77		100.0%	FOE TRM	77	0.2942	FOE TRM	77		
119	Whole Business Efficiency	Optimized Chilled Water Temperature and/or Optimized	115						0.2597				
120	Whole Business Efficiency	Optimized Condenser Pressure	116						0.7602				
121	Whole Business Efficiency	Optimized Distribution System	117						0.3005				
122	Whole Business Efficiency	Optimized Duct Design to Improve Efficiency	118						4.2656				
123	Whole Business Efficiency	Packaged Terminal Air Conditioner	119			91.0%	IL TRM v6 vol2	185	0.2765	Calculated Value			
124	Whole Business Efficiency	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101\	120		0.0660	100.0%	IL TRM v6 vol2	337	0.0004	Calculated Value		8766	IL TRM v6 vol2
125	Whole Business Efficiency	Parking Garage LED Linear Tube Light Bulb	121		0.0070	100.0%	IL TRM v6 vol2	337	0.0001	Calculated Value		8766	IL TRM v9
126	Whole Business Efficiency	Parking Garage LED replacing 101W-175W Fixture or Mo	122		0.0806	100.0%	IL TRM v6 vol2	337	0.0003	Calculated Value		8766	IL TRM v6 vol2
127	Whole Business Efficiency	Premium Efficiency Air Dryer (Compressors)	123						0.4999				
128	Whole Business Efficiency	Premium Efficiency Control with VSDs (Fans)	124						0.1262				
129	Whole Business Efficiency	Premium Efficiency Control with VSDs (Other motors)	125						3.9228				
130	Whole Business Efficiency	Premium Efficiency Control with VSDs (Pumps)	126						3.6472				
131	Whole Business Efficiency	Pre-Rinse Spray Valves Large	127					0	-	IL TRM v5 vol2	63		
132	Whole Business Efficiency	Pre-Rinse Spray Valves Medium	128					0	-	IL TRM v5 vol2	63		
133	Whole Business Efficiency	Pre-Rinse Spray Valves Small	129					0	-	IL TRM v5 vol2	63		
134	Whole Business Efficiency	Process Heat Recovery to Preheat Makeup Water	130						0.6470				
135	Whole Business Efficiency	Q-Sync Motors for Reach-in Coolers_9-12 Watt	131	Sync Motors for Walk-in and Reach-in Coolers/Freezers					0.0465	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in and Reach-in Coolers/Free			
136	Whole Business Efficiency	Q-Sync Motors for Reach-in Freezers_9-12 Watt	132	Sync Motors for Walk-in and Reach-in Coolers/Freezers					0.0583	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in and Reach-in Coolers/Free			
137	Whole Business Efficiency	Q-Sync Motors for Walk-in Coolers_38-50 Wtt	133	Sync Motors for Walk-in and Reach-in Coolers/Freezers					0.1147	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in and Reach-in Coolers/Free			
138	Whole Business Efficiency	Q-Sync Motors for Walk-in Freezers_38-50 Watt	134	Sync Motors for Walk-in and Reach-in Coolers/Freezers					0.1453	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in and Reach-in Coolers/Free			
139	Whole Business Efficiency	Reduce or Control Fan Speed	135						1.0623				
140	Whole Business Efficiency	Refrigerant Charging Correction_Heavy Duty	136	ve Database					0.2738	MI Weather Sensitive Database			
141	Whole Business Efficiency	Remove 4ft Lamp from T8 or T12 system	137		0.0413	66.0%	IL TRM v6 vol2	337-338 (port	0.0314	Calculated Value		3088	IL TRM v6 vol2
142	Whole Business Efficiency	Remove 8ft Lamp from T8 or T12 System	138		0.0750	66.0%	IL TRM v6 vol2	337-338 (port	0.0314	Calculated Value		3088	IL TRM v6 vol2
143	Whole Business Efficiency	Replace Compressed Air Use with Mechanical or Electric	139						3.3329				
144	Whole Business Efficiency	Smart Defrost Controls	140						1.3004				
145	Whole Business Efficiency	Strip Curtains Cooler	141	457		100.0%	IL TRM v5 vol2	457	0.0474	IL TRM v7 vol2	521	8766	IL TRM v5 vol2
146	Whole Business Efficiency	Strip Curtains Freezer	142	456		100.0%	IL TRM v5 vol2	457	0.2818	IL TRM v7 vol2	521	8766	IL TRM v5 vol2
147	Whole Business Efficiency	Synchronous Belts	143						0.1578				
148	Whole Business Efficiency	Use Cooler Air from Outside for Make Up Air	144						0.2381				

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
149	Whole Business Efficiency	Variable Speed Drives	145						4.3389				
150	Whole Business Efficiency	Variable Speed Drives for HVAC Supply and Return Fans_	146	307				0	-	IL TRM v9 vol2	310		
151	Whole Business Efficiency	Variable Speed ECM Pump, <100 Watts Max Input, Dome	147			100.0%	WI TRM 2018	221	0.2150	Calculated Value			
152	Whole Business Efficiency	Variable Speed ECM Pump, 100 - 500 Watts Max Input, D	148			100.0%	WI TRM 2018	221	1.0719	Calculated Value			
153	Whole Business Efficiency	Volume Pocket Adjustments	149						0.5952				
154	Whole Business Efficiency	VSD on Chiller Compressor	150					0	3.2146	Calculated Value			
155	Whole Business Efficiency	VSD Pumps/Fan (Cooling Tower Fan)	151					0	0.0560	Calculated Value			
156	Whole Business Efficiency	Warehouse Loading Dock Seals	152						1.4141				
157	Whole Business Efficiency	Water Heater Tank Wrap	153		0.0153	100.0%	IL TRM v7 vol3	203	0.0382	Calculated Value		8766	IL TRM v7 vol3
158	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	154	200		91.3%	IL TRM v9 vol2	201	0.2067	IL TRM v9 vol2	201		
159	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	155	200		91.3%	IL TRM v9 vol2	201	0.2067	IL TRM v9 vol2	201		
160	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	156	200		91.3%	IL TRM v9 vol2	201	0.4242	IL TRM v9 vol2	201		
161	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	157	200		91.3%	IL TRM v9 vol2	201	0.5719	IL TRM v9 vol2	201		
162	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	158	200		91.3%	IL TRM v9 vol2	201	0.4110	IL TRM v9 vol2	201		
163	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	159	200		91.3%	IL TRM v9 vol2	201	0.0989	IL TRM v9 vol2	201		
164	Whole Business Efficiency	Zero-Loss Condensate Drain	160						1.5748				
165	Business Energy Education	Behavioral Measures Tier 1	161						0.1273				
166	Business Energy Education	Strategic Energy Management	162						0.9354				
167	Home Demand Response	DR Water Heater DLC	163					0	0.5300	Calculated Value			
168	Home Demand Response	Programmable Thermostat	164					0	0.7500	Calculated Value			
169	Home Demand Response	Smart Thermostat	165	gression Analysis of participant monthly billing data				0	1.2000	ADM PY2020 Analysis			
170	Home Demand Response	Smart Thermostat - BYO	166	gression Analysis of participant monthly billing data				0	1.2000	ADM PY2020 Analysis			
171	Hard-to-Reach Businesses	Advanced Rooftop Unit Controls, 2000-4000 annual hour	167			91.3%	IL TRM v7 vol2	351	0.4724	Calculated Value			
172	Hard-to-Reach Businesses	Air Conditioner Tune-up	168			91.3%	IL TRM v8, 4.4.1		0.0449	IL TRM v8, 4.4.1			
173	Hard-to-Reach Businesses	Air-Cooled Chiller	169	200		91.3%	IL TRM v9 vol2	201	0.3246	IL TRM v9 vol2	201		
174	Hard-to-Reach Businesses	Air-Source Heat Pump =240,000 and <760,000 Btu/h	170		0.0319	91.3%	IL TRM v6 vol2	165	0.0970	Calculated Value			
175	Hard-to-Reach Businesses	Air-Source Heat Pump <65,000 Btu/h	171		0.0183	91.3%	IL TRM v6 vol2	165	0.0453	Calculated Value			
176	Hard-to-Reach Businesses	Air-Source Heat Pump =65,000 and <135,000 Btu/h	172		0.0104	91.3%	IL TRM v6 vol2	165	0.0888	Calculated Value			
177	Hard-to-Reach Businesses	ASHP <65_Replacing ER	173		0.0183	91.3%	IL TRM v6 vol2	165	0.0329	Calculated Value			
178	Hard-to-Reach Businesses	ASHP 135 - 240kbtu_Replacing ER	174		0.0116	91.3%	IL TRM v6 vol2	165	0.0648	Calculated Value			
179	Hard-to-Reach Businesses	ASHP 65 - 135kbtu_Replacing ER	175		0.0104	91.3%	IL TRM v6 vol2	165	0.0888	Calculated Value			
180	Hard-to-Reach Businesses	Business Custom - Cooking	176						1.2627				
181	Hard-to-Reach Businesses	Business Custom - HVAC	177						5.7523				
182	Hard-to-Reach Businesses	Business Custom - Lighting	178						9.9258				
183	Hard-to-Reach Businesses	Business Custom - Misc	179						32.1727				
184	Hard-to-Reach Businesses	Business Custom - New Construction	180						3.2234				
185	Hard-to-Reach Businesses	Business Custom - Refrigeration	181						7.9753				
186	Hard-to-Reach Businesses	Business Custom - Retrocomisioning	182						0.8194				
187	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Advanced Tier	183		0.0707	91.0%	IL TRM v6 vol2	204	0.0560	Calculated Value		1000	IL TRM v6 vol2
188	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Tier 2	184		0.0707	91.0%	IL TRM v6 vol2	204	0.0560	Calculated Value		1000	IL TRM v6 vol2
189	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_Advanced Tier	185		0.0807	91.0%	IL TRM v6 vol2	204	0.0294	Calculated Value		1000	IL TRM v6 vol2
190	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_CEE Tier 2	186		0.0807	91.0%	IL TRM v6 vol2	204	0.0294	Calculated Value		1000	IL TRM v6 vol2
191	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Advanced Tie	187		0.0566	91.0%	IL TRM v6 vol2	204	0.0434	Calculated Value		1000	IL TRM v6 vol2
192	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Tier 1	188		0.0566	91.0%	IL TRM v6 vol2	204	0.0434	Calculated Value		1000	IL TRM v6 vol2
193	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Air Cooled	189						0.1643	Calculated			
194	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Water Cooled	190						0.3152	Calculated			
195	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/2"	191					0	0.8495	Calculated Value			
196	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/4"	192					0	0.1760	Calculated Value			

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Measure Description

	A	B	C	N	O	P	Q	R	S	T	U	V	W
4	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
197	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/8"	193	550		95.0%	IL TRM v7 vol2	552	0.0637	IL TRM v7 vol2	552		
198	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 5/16"	194					0	0.3428	Calculated Value			
199	Hard-to-Reach Businesses	Compressed Air - No Loss Condensate Drain/Valve	195		0.3210	95.0%	IL TRM v6 Vol2	470	0.3199	Calculated Value		6136	IL TRM v6 Vol2
200	Hard-to-Reach Businesses	Demand Controlled Ventillation (Electric Heat)	196			0.0%	IL TRM v6 vol2	226	-	Calculated Value			
201	Hard-to-Reach Businesses	Demand Controlled Ventillation (Heat Pump)	197			0.0%	IL TRM v6 vol2	226	-	Calculated Value			
202	Hard-to-Reach Businesses	Door heater controls for cooler (Conductivity-based cont	198			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
203	Hard-to-Reach Businesses	Door heater controls for cooler (Humidity-based control	199			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
204	Hard-to-Reach Businesses	Door heater controls for freezer (Conductivity-based cor	200			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
205	Hard-to-Reach Businesses	Door heater controls for freezer (Humidity-based contro	201			0.0%	IL TRM v6 vol2	439	-	IL TRM v6 vol2	440		
206	Hard-to-Reach Businesses	Duct Efficiency Improvements	202	265					0.2387	AR TRM v8.1	265		
207	Hard-to-Reach Businesses	Duct Insulation (Converted Residences)	203	271					0.0120	AR TRM v8.1	271		
208	Hard-to-Reach Businesses	Duct Insulation (Small Commercial)	204	275					0.1042	AR TRM v8.1	275		
209	Hard-to-Reach Businesses	ECM Motors Walk-In Coolers & Freezers	205	443		100.0%	IL TRM v6 vol2	442	0.1922	Calculated Value			
210	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/ software	206	446		0.0%	IL TRM v6 vol2	446	-	IL TRM v6 vol2	446		
211	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/o software	207	446		0.0%	IL TRM v6 vol2	446	-	IL TRM v6 vol2	446		
212	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (0 < V <13)	208		0.1295	36.0%	IL TRM v6 vol2	54	0.5870	Calculated Value			
213	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (13 = V <28)	209		0.5060	36.0%	IL TRM v6 vol2	54	0.8796	Calculated Value			
214	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (28 = V)	210		0.8101	36.0%	IL TRM v6 vol2	54	2.0753	Calculated Value			
215	Hard-to-Reach Businesses	ENERGY STAR Laptop	211	Laptop Computer		0.0%	Ameren TRM 2.7.1	Laptop Compute	0.0076	Ameren TRM 2.7.1	Laptop Computer		
216	Hard-to-Reach Businesses	ENERGY STAR Server_W<1500	212	Computer Server		0.0%	Ameren TRM 2.7.4	Computer Server	0.1881	Ameren TRM 2.7.4	Computer Server		
217	Hard-to-Reach Businesses	ENERGY STAR Server_W=1501-3000	213	Computer Server		0.0%	Ameren TRM 2.7.4	Computer Server	0.6100	Ameren TRM 2.7.4	Computer Server		
218	Hard-to-Reach Businesses	ENERGY STAR Steam Cooker	214			36.0%	IL TRM v6 vol2	25	3.9161	Calculated Value			
219	Hard-to-Reach Businesses	Exterior LED Linear Tube Light Bulb	215		0.0141	100.0%	IL TRM v6 vol2	337	0.0110	Calculated Value		8766	IL TRM v9
220	Hard-to-Reach Businesses	Exterior LED replacing < 175W Fixture or Mogul Screw-Ba	216		0.1240	0.0%	IL TRM v6 vol2	338	-	Calculated Value		4300	Indiana TRM v1
221	Hard-to-Reach Businesses	Exterior LED replacing > 400W Fixture or Mogul Screw-Ba	217		0.8930	0.0%	IL TRM v6 vol2	338	-	Calculated Value		4300	Indiana TRM v1
222	Hard-to-Reach Businesses	Exterior LED replacing 175W-250W Fixture or Mogul Scre	218		0.1400	0.0%	IL TRM v6 vol2	338	-	Calculated Value		4300	Indiana TRM v1
223	Hard-to-Reach Businesses	Exterior LED replacing 251W-400W Fixture or Mogul Scre	219		0.1850	0.0%	IL TRM v6 vol2	338	-	Calculated Value		4300	Indiana TRM v1
224	Hard-to-Reach Businesses	Exterior Lighting BiLevel Control w Override, 150 to 1000	220			95.0%			-				
225	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing ER	221		2.2430	43.0%	IL TRM v9 vol3	154	0.1722	Calculated Value		738	MO TRM 2017 vol
226	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing HP	222		2.2430	43.0%	IL TRM v9 vol3	154	0.1495	Calculated Value		738	MO TRM 2017 vol
227	Hard-to-Reach Businesses	Heat Pump Tune-ups	223			91.3%	IL TRM v8, 4.4.1		0.0316	IL TRM v8, 4.4.1			
228	Hard-to-Reach Businesses	Interior Daylighting Controls Replacing No Controls	224		0.2132	66.0%	IL TRM v6 vol2	337-338 (port	0.3604	Calculated Value		3088	IL TRM v6 vol2
229	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 50-70W Lamp	225		0.0661	70.0%	IL TRM v6 vol2	337-338 (port	0.0786	Calculated Value		3933	IL TRM v6 vol2
230	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 71-110W Lamp	226		0.1008	66.0%	IL TRM v6 vol2	337-338 (port	0.0941	Calculated Value		3088	IL TRM v6 vol2
231	Hard-to-Reach Businesses	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	227		0.0710	75.0%	Indiana TRM v1	171-172 (port	0.1336	Calculated Value		4128	Indiana TRM v1
232	Hard-to-Reach Businesses	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	228		0.0530	75.0%	Indiana TRM v1	171-172 (port	0.0706	Calculated Value		4128	Indiana TRM v1
233	Hard-to-Reach Businesses	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	229		0.0710	75.0%	Indiana TRM v1	171-172 (port	0.1320	Calculated Value		4128	Indiana TRM v1
234	Hard-to-Reach Businesses	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	230		0.0680	75.0%	Indiana TRM v1	171-172 (port	0.0887	Calculated Value		4128	Indiana TRM v1
235	Hard-to-Reach Businesses	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	231		0.0946	75.0%	Indiana TRM v1	171-172 (port	0.1697	Calculated Value		4128	Indiana TRM v1
236	Hard-to-Reach Businesses	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	232		0.0781	75.0%	Indiana TRM v1	171-172 (port	0.1026	Calculated Value		4128	Indiana TRM v1
237	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 101-155V	233		0.1586	70.0%	Indiana TRM v1	171-172 (port	0.2142	Calculated Value		3933	Indiana TRM v1
238	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 45-60W F	234		0.0619	70.0%	Indiana TRM v1	171-172 (port	0.0837	Calculated Value		3933	Indiana TRM v1
239	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 61-100W	235		0.0936	70.0%	Indiana TRM v1	171-172 (port	0.1266	Calculated Value		3933	Indiana TRM v1
240	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lan	236		0.0105	75.0%	Indiana TRM v1	171-172 (port	0.0096	Calculated Value		4128	Indiana TRM v1
241	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lan	237		0.0210	75.0%	Indiana TRM v1	171-172 (port	0.0195	Calculated Value		4128	Indiana TRM v1
242	Hard-to-Reach Businesses	Interior Lighting - Embedded Fixture Controls	238	hting Controls		15.0%	IL TRM v8,4.5.10	Lighting Controls	0.0552	IL TRM v8,4.5.10	Lighting Controls		
243	Hard-to-Reach Businesses	Interior Occupancy or Vacancy Sensor Replacing No Con	239		0.0744	95.0%	IL TRM v6 vol2	337-338 (port	0.1263	Calculated Value		4128	IL TRM v6 vol2
244	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 40-60W Lar	240		0.0563	65.0%	IL TRM v6 vol2	337-338 (port	0.0568	Calculated Value		3750	IL TRM v6 vol2

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
245	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 61-100W La	241		0.0925	70.0%	IL TRM v6 vol2	337-338 (port	0.0957	Calculated Value		3933	IL TRM v6 vol2
246	Hard-to-Reach Businesses	Kitchen Demand Controlled Ventilation	242	73				0	-	IL TRM v6 vol2	73		
247	Hard-to-Reach Businesses	LED Exit Sign	243		0.0060	93.4%	Navigant Field Work	(portfolio wei	0.0047	Calculated Value		7706.01655	Navigant Field Wo
248	Hard-to-Reach Businesses	LED Flood Light (<15W)	244		0.0430	0.0%	IL TRM v6 vol2	338	0.0604	Calculated Value		4903	IL TRM v6 vol2
249	Hard-to-Reach Businesses	LED Flood Light (>=15W)	245		0.0482	0.0%	IL TRM v6 vol2	338	0.0677	Calculated Value		4903	IL TRM v6 vol2
250	Hard-to-Reach Businesses	LED High Bay fixture replacing > 750W fixture	246		1.1168	83.0%	IL TRM v6 vol2	337-338 (port	1.1485	Calculated Value		4367	IL TRM v6 vol2
251	Hard-to-Reach Businesses	LED High Bay Fixture replacing 451W - 750W fixture	247		0.5586	83.0%	IL TRM v6 vol2	337-338 (port	0.5745	Calculated Value		4367	IL TRM v6 vol2
252	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	248		0.9755	83.0%	IL TRM v6 vol2	337-338 (port	0.9680	Calculated Value		4367	IL TRM v6 vol2
253	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	249		0.6767	83.0%	IL TRM v6 vol2	337-338 (port	0.6715	Calculated Value		4367	IL TRM v6 vol2
254	Hard-to-Reach Businesses	LED Low Bay Fixture replacing 150W-300W fixture	250		0.1454	83.0%	IL TRM v6 vol2	337-338 (port	0.0742	Calculated Value		4367	IL TRM v6 vol2
255	Hard-to-Reach Businesses	LED low bay mogul screw-base lamp/retrofit kit replacin	251		0.2336	83.0%	IL TRM v6 vol2	337-338 (port	0.1161	Calculated Value		4367	IL TRM v6 vol2
256	Hard-to-Reach Businesses	LED Low/High Bay Fixture replacing 301W-450W fixture	252		0.2687	83.0%	IL TRM v6 vol2	337-338 (port	0.1659	Calculated Value		4367	IL TRM v6 vol2
257	Hard-to-Reach Businesses	LED low/high bay mogul screw-base lamp/retrofit kit rep	253		0.4044	83.0%	IL TRM v6 vol2	337-338 (port	0.2025	Calculated Value		4367	IL TRM v6 vol2
258	Hard-to-Reach Businesses	LED Open Sign	254		0.0060	93.4%	Navigant Field Work	(portfolio wei	0.0254	Calculated Value		7706.01655	Navigant Field Wo
259	Hard-to-Reach Businesses	LED Refrigerator Case Light	255		0.1145	92.0%	IL TRM v6 vol2	337-338 (port	0.0229	Calculated Value		6205	IL TRM v5 vol2
260	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Bathroom	256		2.5469	0.6%	IL TRM v6 vol2	94	0.0169	Calculated Value			
261	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Kitchen	257		3.1044	0.6%	IL TRM v6 vol2	94	0.0104	Calculated Value			
262	Hard-to-Reach Businesses	Low Flow Showerhead	258		1.9410	2.8%	IL TRM v6 vol2	98	0.5696	Calculated Value			
263	Hard-to-Reach Businesses	Networked Lighting Controls	259			15.0%	IL TRM v9	544	0.0002	Calculated Value			
264	Hard-to-Reach Businesses	Open Display Case_Low Temperature	260	77		100.0%	FOE TRM	77	0.2941	FOE TRM	77		
265	Hard-to-Reach Businesses	Packaged RTU Sealing	261	aged RTU Sealing					0.0578	IL TRM v4.4.43	Packaged RTU Sealing		
266	Hard-to-Reach Businesses	Packaged Terminal Air Conditioner	262			91.0%	IL TRM v6 vol2	185	0.2766	Calculated Value			
267	Hard-to-Reach Businesses	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175'	263		0.0660	100.0%	IL TRM v6 vol2	337	-	Calculated Value		8766	IL TRM v6 vol2
268	Hard-to-Reach Businesses	Parking Garage LED Linear Tube Light Bulb	264		0.0660	100.0%	IL TRM v6 vol2	337	-	Calculated Value		8766	IL TRM v6 vol2
269	Hard-to-Reach Businesses	Parking Garage LED replacing 101W-175W Fixture or Mo	265		0.0806	100.0%	IL TRM v6 vol2	337	-	Calculated Value		8766	IL TRM v6 vol2
270	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Large	266					0	-	IL TRM v5 vol2	63		
271	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Medium	267					0	-	IL TRM v5 vol2	63		
272	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Small	268			0.0%	IL TRM v6 vol2	60	-	IL TRM v6 vol2	61		
273	Hard-to-Reach Businesses	Remove 4ft Lamp from T8 or T12 system	269		0.0375	66.0%	IL TRM v6 vol2	337-338 (port	0.0281	Calculated Value		3088	IL TRM v6 vol2
274	Hard-to-Reach Businesses	Remove 8ft Lamp from T8 or T12 System	270		0.0777	66.0%	IL TRM v6 vol2	337-338 (port	0.0281	Calculated Value		3088	IL TRM v6 vol2
275	Hard-to-Reach Businesses	Strip Curtains Cooler	271	451		100.0%	IL TRM v6 vol2	452	0.0580	Calculated Value			
276	Hard-to-Reach Businesses	Strip Curtains Freezer	272	451		100.0%	IL TRM v6 vol2	452	0.1621	Calculated Value			
277	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	273	307				0	-	IL TRM v9 vol2	310		
278	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	274	307				0	-	IL TRM v9 vol2	310		
279	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	275	307				0	-	IL TRM v9 vol2	310		
280	Hard-to-Reach Businesses	VSD Pumps/Fan (Cooling Tower Fan)	276					0	0.0560	Calculated Value			
281	Hard-to-Reach Businesses	Water Heater Pipe Insulation	277		0.0117	100.0%	IL TRM v7 vol3	171	0.0041	Calculated Value		8766	IL TRM v7 vol3
282	Hard-to-Reach Businesses	Water Heater Tank Wrap	278		0.0153	100.0%	IL TRM v7 vol3	203	0.0386	Calculated Value		8766	IL TRM v7 vol3
283	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	279	200		91.3%	IL TRM v9 vol2	201	0.1108	IL TRM v9 vol2	201		
284	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	280	200		91.3%	IL TRM v9 vol2	201	0.1108	IL TRM v9 vol2	201		
285	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	281	200		91.3%	IL TRM v9 vol2	201	0.2274	IL TRM v9 vol2	201		
286	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	282	200		91.3%	IL TRM v9 vol2	201	0.3339	IL TRM v9 vol2	201		
287	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	283	200		91.3%	IL TRM v9 vol2	201	0.2479	IL TRM v9 vol2	201		
288	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	284	200		91.3%	IL TRM v9 vol2	201	0.0691	IL TRM v9 vol2	201		
289	Hard-to-Reach Businesses	Window Film (Converted Residences)	285	357					0.0017	AR TRM v8.1	357		
290	Hard-to-Reach Businesses	Window Film (Small Commercial)	286	359					0.0031	AR TRM v8.1	359		
291	Hard-to-Reach Homes	Air Sealing - 30% MF AC	287			0.1%	MO TRM 2017	167	0.00007859	Calculated Value		738	EFLHcool, from 20
292	Hard-to-Reach Homes	Air Sealing - 30% SF AC	288			0.1%	MO TRM 2017	167	0.00014534	Calculated Value		738	EFLHcool, from 20

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Measure Description

	A	B	C	N	O	P	Q	R	S	T	U	V	W
4	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
293	Hard-to-Reach Homes	Air Sealing - 30% MF AC/ER	289			0.0%	Calculated Value		0.00008130	No cooling savings, no coincident savin			
294	Hard-to-Reach Homes	Air Sealing - 30% MF ASHP	290			0.0%	Calculated Value		0.00007993	No cooling savings, no coincident savin			
295	Hard-to-Reach Homes	Air Sealing - 30% SF AC/ER	291			0.0%	Calculated Value		0.0002	No cooling savings, no coincident savin			
296	Hard-to-Reach Homes	Air Sealing - 30% SF ASHP	292			0.0%	Calculated Value		0.00014779	No cooling savings, no coincident savin			
297	Hard-to-Reach Homes	ASHP SEER 15	293		0.4260	72.0%	IL TRM v9 vol3	74	0.0799	Calculated Value		738	EFLHcool, from 20
298	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement	294		2.3338	72.0%	IL TRM v9 vol3	74	0.4553	Calculated Value		738	EFLHcool, from 20
299	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement (Future)	295		0.3968	72.0%	IL TRM v9 vol3	74	0.0927	Calculated Value		738	EFLHcool, from 20
300	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat	296		0.1764	72.0%	IL TRM v9 vol3	74	0.0799	Calculated Value		738	EFLHcool, from 20
301	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	297		0.5850	72.0%	IL TRM v9 vol3	74	0.4553	Calculated Value		738	EFLHcool, from 20
302	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	298		0.1778	72.0%	IL TRM v9 vol3	74	0.0927	Calculated Value		738	EFLHcool, from 20
303	Hard-to-Reach Homes	ASHP SEER 16	299		0.4260	72.0%	IL TRM v9 vol3	74	0.1025	Calculated Value		738	EFLHcool, from 20
304	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement	300		2.3338	72.0%	IL TRM v9 vol3	74	0.4826	Calculated Value		738	EFLHcool, from 20
305	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement (Future)	301		0.3968	72.0%	IL TRM v9 vol3	74	0.1200	Calculated Value		738	EFLHcool, from 20
306	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	302		0.5850	72.0%	IL TRM v9 vol3	74	0.4022	Calculated Value		738	EFLHcool, from 20
307	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	303		0.1778	72.0%	IL TRM v9 vol3	74	0.1000	Calculated Value		738	EFLHcool, from 20
308	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	304		0.4953	67.0%	IL TRM v9 vol3	74	0.4022	Calculated Value		738	EFLHcool, from 20
309	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	305		0.1163	67.0%	IL TRM v9 vol3	74	0.1000	Calculated Value		738	EFLHcool, from 20
310	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC: MF	306		0.1045	67.0%	IL TRM v9 vol3	74	0.1042	Calculated Value		738	EFLHcool, from 20
311	Hard-to-Reach Homes	ASHP SEER 16 - Replace Electric Resistance Heat	307		4.6804	72.0%	IL TRM v9 vol3	74	0.1041	Calculated Value		738	EFLHcool, from 20
312	Hard-to-Reach Homes	ASHP SEER 17	308		0.4749	72.0%	IL TRM v9 vol3	74	0.1291	Calculated Value		738	EFLHcool, from 20
313	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement	309		2.5765	72.0%	IL TRM v9 vol3	74	0.4464	Calculated Value		738	EFLHcool, from 20
314	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement (Future)	310		0.6395	72.0%	IL TRM v9 vol3	74	0.1443	Calculated Value		738	EFLHcool, from 20
315	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF	311		0.4764	67.0%	IL TRM v9 vol3	74	0.4464	Calculated Value		738	EFLHcool, from 20
316	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF (F	312		0.1361	67.0%	IL TRM v9 vol3	74	0.1443	Calculated Value		738	EFLHcool, from 20
317	Hard-to-Reach Homes	ASHP SEER 17 - replace electric furnace / CAC: MF	313		0.2431	67.0%	IL TRM v9 vol3	74	0.1480	Calculated Value		738	EFLHcool, from 20
318	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat	314		0.1764	72.0%	IL TRM v9 vol3	74	0.1480	Calculated Value		738	EFLHcool, from 20
319	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	315		0.5850	72.0%	IL TRM v9 vol3	74	0.5357	Calculated Value		738	EFLHcool, from 20
320	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	316		0.1778	72.0%	IL TRM v9 vol3	74	0.1731	Calculated Value		738	EFLHcool, from 20
321	Hard-to-Reach Homes	ASHP SEER 18	317		0.4749	72.0%	IL TRM v9 vol3	74	0.2214	Calculated Value		738	EFLHcool, from 20
322	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement	318		2.5765	72.0%	IL TRM v9 vol3	74	0.5163	Calculated Value		738	EFLHcool, from 20
323	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	319		0.6395	72.0%	IL TRM v9 vol3	74	0.2142	Calculated Value		738	EFLHcool, from 20
324	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF	320		0.4764	67.0%	IL TRM v9 vol3	74	0.5163	Calculated Value		738	EFLHcool, from 20
325	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF (F	321		0.1361	67.0%	IL TRM v9 vol3	74	0.2142	Calculated Value		738	EFLHcool, from 20
326	Hard-to-Reach Homes	ASHP SEER 18 - replace electric furnace / CAC: MF	322		0.2431	67.0%	IL TRM v9 vol3	74	0.2215	Calculated Value		738	EFLHcool, from 20
327	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat	323		0.1764	72.0%	IL TRM v9 vol3	74	0.2214	Calculated Value		738	EFLHcool, from 20
328	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	324		0.5850	72.0%	IL TRM v9 vol3	74	0.6196	Calculated Value		738	EFLHcool, from 20
329	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	325		0.1778	72.0%	IL TRM v9 vol3	74	0.2570	Calculated Value		738	EFLHcool, from 20
330	Hard-to-Reach Homes	ASHP SEER 21	326		0.4749	72.0%	IL TRM v9 vol3	74	0.2582	Calculated Value		738	EFLHcool, from 20
331	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement	327		2.5765	72.0%	IL TRM v9 vol3	74	0.6623	Calculated Value		738	EFLHcool, from 20
332	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement (Future)	328		0.6395	72.0%	IL TRM v9 vol3	74	0.2997	Calculated Value		738	EFLHcool, from 20
333	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat	329		0.1764	72.0%	IL TRM v9 vol3	74	0.2582	Calculated Value		738	EFLHcool, from 20
334	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	330		0.5850	72.0%	IL TRM v9 vol3	74	0.6623	Calculated Value		738	EFLHcool, from 20
335	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	331		0.1778	72.0%	IL TRM v9 vol3	74	0.2997	Calculated Value		738	EFLHcool, from 20
336	Hard-to-Reach Homes	Bathroom Exhaust Fan (Int.)	332		0.0348	13.5%	IL TRM v9 vol3	139	0.0048	Calculated Value		1089	IL TRM v9 vol3
337	Hard-to-Reach Homes	CAC SEER 15	333		0.2199	68.0%	IL TRM v9 vol3	92	0.1082	Calculated Value		738	EFLHcool, from 20
338	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement	334		0.6291	68.0%	IL TRM v9 vol3	92	0.6596	Calculated Value		738	EFLHcool, from 20
339	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement (Future)	335		0.2210	68.0%	IL TRM v9 vol3	92	0.1341	Calculated Value		738	EFLHcool, from 20
340	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF	336		0.5545	68.0%	IL TRM v9 vol3	92	0.6596	Calculated Value		738	EFLHcool, from 20

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
341	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF (Future)	337		0.1464	68.0%	IL TRM v9 vol3	92	0.1341	Calculated Value		738	EFLHcool, from 20
342	Hard-to-Reach Homes	CAC SEER 15 - Replace at Fail: MF	338		0.1464	68.0%	IL TRM v9 vol3	92	0.1082	Calculated Value		738	EFLHcool, from 20
343	Hard-to-Reach Homes	CAC SEER 16	339		0.2199	68.0%	IL TRM v9 vol3	92	0.1415	Calculated Value		738	EFLHcool, from 20
344	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement	340		0.6291	68.0%	IL TRM v9 vol3	92	0.7003	Calculated Value		738	EFLHcool, from 20
345	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement (Future)	341		0.2210	68.0%	IL TRM v9 vol3	92	0.1748	Calculated Value		738	EFLHcool, from 20
346	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF	342		0.5752	68.0%	IL TRM v9 vol3	92	0.7003	Calculated Value		738	EFLHcool, from 20
347	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF (Future)	343		0.1672	68.0%	IL TRM v9 vol3	92	0.1748	Calculated Value		738	EFLHcool, from 20
348	Hard-to-Reach Homes	CAC SEER 16 - Replace at Fail: MF	344		0.1672	68.0%	IL TRM v9 vol3	92	0.1415	Calculated Value		738	EFLHcool, from 20
349	Hard-to-Reach Homes	CAC SEER 17	345		0.2373	68.0%	IL TRM v9 vol3	92	0.1518	Calculated Value		738	EFLHcool, from 20
350	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement	346		0.6454	68.0%	IL TRM v9 vol3	92	0.7122	Calculated Value		738	EFLHcool, from 20
351	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement (Future)	347		0.2373	68.0%	IL TRM v9 vol3	92	0.1867	Calculated Value		738	EFLHcool, from 20
352	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement	348		0.2373	68.0%	IL TRM v9 vol3	92	0.9898	Calculated Value		738	EFLHcool, from 20
353	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement (Future)	349		0.6454	68.0%	IL TRM v9 vol3	92	0.2891	Calculated Value		738	EFLHcool, from 20
354	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF	350		0.5951	68.0%	IL TRM v9 vol3	92	1.2180	Calculated Value		738	EFLHcool, from 20
355	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF (Future)	351		0.1870	68.0%	IL TRM v9 vol3	92	0.3422	Calculated Value		738	EFLHcool, from 20
356	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail	352		0.2373	68.0%	IL TRM v9 vol3	92	0.1813	Calculated Value		738	EFLHcool, from 20
357	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail: MF	353		0.1870	68.0%	IL TRM v9 vol3	92	0.1643	Calculated Value		738	EFLHcool, from 20
358	Hard-to-Reach Homes	ENERGY STAR Bathroom Exhaust Fan (Int.)	354		0.0348	13.5%	IL TRM v9 vol3	139	0.0034	Calculated Value		1089	IL TRM v9 vol3
359	Hard-to-Reach Homes	ENERGY STAR Clothes Dryers	355		0.5669	3.8%	IL TRM v9 vol3	47	0.0206	Calculated Value		283	IL TRM v9 vol3
360	Hard-to-Reach Homes	ENERGY STAR Clothes Washers	356		0.4305	3.8%	IL TRM v9 vol3	9	0.0083	Calculated Value		295	IL TRM v9 vol3
361	Hard-to-Reach Homes	ENERGY STAR Clothes Washers_CEE Tier 2	357		0.4305	3.8%	IL TRM v9 vol3	9	0.0150	Calculated Value		295	IL TRM v9 vol3
362	Hard-to-Reach Homes	ENERGY STAR Freezers	358			95.0%	IL TRM v9 vol3	26	0.0100	Calculated Value		5890	IL TRM v9 vol3
363	Hard-to-Reach Homes	ENERGY STAR Refrigerators	359					0	0.0078	Calculated Value		8766	IL TRM v9 vol3
364	Hard-to-Reach Homes	Energy Star Vented Electric, Compact (240V) (< 4.4 ft3)	360		0.2293	3.8%	IL TRM v6 vol3	46	0.0083	Calculated Value			
365	Hard-to-Reach Homes	Energy Star Vented or Ventless Electric, Compact (120V)	361		0.2072	3.8%	IL TRM v6 vol3	46	0.0075	Calculated Value			
366	Hard-to-Reach Homes	Energy Star Ventless Electric, Compact (240V) (< 4.4 ft3)	362		0.2890	3.8%	IL TRM v6 vol3	46	0.0105	Calculated Value			
367	Hard-to-Reach Homes	Exterior Lighting - Photosensor Control	363	Cell Daylight Sensor					-				
368	Hard-to-Reach Homes	GSHP - EER 23_Replace Electric Furnace at Fail / Time of	364		3.1213	72.0%	IL TRM v9 vol3	128	0.3455	Calculated Value		738	EFLHcool, from 20
369	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 23	365		2.2430	43.0%	IL TRM v9 vol3	154	0.1711	Calculated Value		738	MO TRM 2017 vol
370	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 30	366		2.2430	43.0%	IL TRM v9 vol3	154	0.1870	Calculated Value		738	MO TRM 2017 vol
371	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	367		0.7092	12.0%	IL TRM v9 vol3	201	0.0838	Calculated Value		2533	IL TRM v9 vol3
372	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	368		0.9508	12.0%	IL TRM v9 vol3	201	0.1144	Calculated Value		2533	IL TRM v9 vol3
373	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: ASHP	369		74.3478	68.0%	IL TRM v7 vol3	127	0.0194	Calculated Value			
374	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: CAC	370		74.3478	68.0%	IL TRM v7 vol3	127	0.0173	Calculated Value			
375	Hard-to-Reach Homes	Income-Eligible Multi-Family Custom Measure	371						0.0368				
376	Hard-to-Reach Homes	Increased Ceiling Insulation	372		0.0006	70.0%	IL TRM v9 vol3	342	0.0002	Calculated Value		738	EFLHcool, from 20
377	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_MF	373		0.0006	70.0%	IL TRM v9 vol3	342	0.00012025	Calculated Value		738	EFLHcool, from 20
378	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_SF	374		0.0006	70.0%	IL TRM v9 vol3	342	0.0002	Calculated Value		738	EFLHcool, from 20
379	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_MF	375		0.0006	70.0%	IL TRM v9 vol3	342	0.00011625	Calculated Value		738	EFLHcool, from 20
380	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_SF	376		0.0006	70.0%	IL TRM v9 vol3	342	0.0002	Calculated Value		738	EFLHcool, from 20
381	Hard-to-Reach Homes	Increased Ceiling Insulation_HP_MF	377		0.0006	70.0%	IL TRM v9 vol3	342	0.00011786	Calculated Value		738	EFLHcool, from 20
382	Hard-to-Reach Homes	LED Exit Sign_MF	378		0.0058	100.0%	IL TRM v9 vol2	509	0.0096	Calculated Value		8766	IL TRM v9 vol2
383	Hard-to-Reach Homes	LED Flood Light (<15W) (Exterior)	379		0.0590	27.3%	IL TRM v9 vol3	286	-	Calculated Value		2475	IL TRM v9 vol3
384	Hard-to-Reach Homes	LED Nightlights	380			0.0%	IL TRM v9 vol3	294	-	Calculated Value		4380	IL TRM v9 vol3
385	Hard-to-Reach Homes	Linear Lighting (MF Common area)	381		0.0688	12.8%	IL TRM v9 vol3	278	0.0131	Calculated Value		974	IL TRM v9 vol3
386	Hard-to-Reach Homes	Low Flow Faucet Aerator-Bathroom	382		1.3603	2.2%	IL TRM v9 vol3	207	0.0246	Calculated Value		14	IL TRM v9 vol3
387	Hard-to-Reach Homes	Low Flow Faucet Aerator-Kitchen	383		0.3703	2.2%	IL TRM v9 vol3	207	0.0164	Calculated Value		102	IL TRM v9 vol3
388	Hard-to-Reach Homes	Low Flow Showerhead	384		0.8051	2.8%	IL TRM v9 vol3	217	0.0098	Calculated Value		255	IL TRM v9 vol3

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Measure Description

	Program	Measure Name	Primary Key	Electric Energy Savings (Annual kWh/unit) Source Page Number	Nameplate Demand Savings (kW/unit)	Peak Coincidence Factor	Peak Coincident Factor Source	Peak Coincident Factor Source Page Number	Coincident Peak Demand Savings (kW/unit)	Coincident Peak Demand Savings (kW/unit) Source	Coincident Peak Demand Savings (kW/unit) Source Page Number	Annual Operating Hours	Annual Operating Hours Source
389	Hard-to-Reach Homes	Room AC Units	385		0.0715	30.0%	IL TRM v9 vol3	37	0.0207	Calculated Value		428	0
390	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Exterior)	386		0.0333	62.0%	IL TRM v9 vol2 (MF - N	470	0.0089	Calculated Value		8766	IL TRM v7 vol2 - Ex
391	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Interior)	387		0.0370	62.0%	IL TRM v9 vol2 (MF - N	470	0.0045	Calculated Value		5950	IL TRM v7 vol3 - as
392	Hard-to-Reach Homes	Screw In - LEDs (In-Unit)	388		0.0335	12.8%	IL TRM v9 vol3, assum	278	0.0045	Calculated Value		1089	IL TRM v9 vol3 - A
393	Hard-to-Reach Homes	Screw In - Specialty LEDs	389		0.0459	12.8%	IL TRM v9 vol3 - Weigh	254	0.0052	Calculated Value		974	IL TRM v9 vol3 - W
394	Hard-to-Reach Homes	Screw In - Specialty LEDs (Exterior)	390		0.0510	27.3%	IL TRM v9 vol2 - Exteri	254	0.0119	Calculated Value		2475	IL TRM v9 vol3 (Ex
395	Whole Home Efficiency	Air Sealing - 30% MF AC	391		0.0005	68.0%	IL TRM v9 vol3	305	0.00007861	Calculated Value		738	EFLHcool, from 20
396	Whole Home Efficiency	Air Sealing - 30% SF AC	392		0.0005	68.0%	IL TRM v9 vol3	305	0.00014532	Calculated Value		738	EFLHcool, from 20
397	Whole Home Efficiency	Air Sealing - 30% MF AC/ER	393		0.0005	68.0%	IL TRM v9 vol3	305	0.00008136	Calculated Value		738	EFLHcool, from 20
398	Whole Home Efficiency	Air Sealing - 30% MF ASHP	394		0.0005	68.0%	IL TRM v9 vol3	305	0.00007999	Calculated Value		738	EFLHcool, from 20
399	Whole Home Efficiency	Air Sealing - 30% SF AC/ER	395		0.0005	68.0%	IL TRM v9 vol3	305	0.0002	Calculated Value		738	EFLHcool, from 20
400	Whole Home Efficiency	Air Sealing - 30% SF ASHP	396		0.0005	68.0%	IL TRM v9 vol3	305	0.00014773	Calculated Value		738	EFLHcool, from 20
401	Whole Home Efficiency	Air Sealing - 50% MF AC	397		0.0005	68.0%	IL TRM v9 vol3	305	0.00013100	Calculated Value		738	EFLHcool, from 20
402	Whole Home Efficiency	Air Sealing - 50% SF AC	398		0.0005	68.0%	IL TRM v9 vol3	305	0.0002	Calculated Value		738	EFLHcool, from 20
403	Whole Home Efficiency	Air Sealing - 50% MF AC/ER	399		0.0005	68.0%	IL TRM v9 vol3	305	0.00013557	Calculated Value		738	EFLHcool, from 20
404	Whole Home Efficiency	Air Sealing - 50% MF ASHP	400		0.0005	68.0%	IL TRM v9 vol3	305	0.00013329	Calculated Value		738	EFLHcool, from 20
405	Whole Home Efficiency	Air Sealing - 50% SF AC/ER	401		0.0005	68.0%	IL TRM v9 vol3	305	0.0003	Calculated Value		738	EFLHcool, from 20
406	Whole Home Efficiency	Air Sealing - 50% SF ASHP	402		0.0005	68.0%	IL TRM v9 vol3	305	0.0002	Calculated Value		738	EFLHcool, from 20
407	Whole Home Efficiency	ASHP SEER 16	403		0.4260	72.0%	IL TRM v9 vol3	74	0.1024	Calculated Value		738	EFLHcool, from 20
408	Whole Home Efficiency	ASHP SEER 16 - Early Replacement	404		2.3338	72.0%	IL TRM v9 vol3	74	0.4826	Calculated Value		738	EFLHcool, from 20
409	Whole Home Efficiency	ASHP SEER 16 - Early Replacement (Future)	405		0.3968	72.0%	IL TRM v9 vol3	74	0.1200	Calculated Value		738	EFLHcool, from 20
410	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	406		2.3338	72.0%	IL TRM v9 vol3	74	0.4022	Calculated Value		738	EFLHcool, from 20
411	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	407		0.3968	72.0%	IL TRM v9 vol3	74	0.1000	Calculated Value		738	EFLHcool, from 20
412	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	408		0.4953	67.0%	IL TRM v9 vol3	74	0.4022	Calculated Value		738	EFLHcool, from 20
413	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	409		0.1163	67.0%	IL TRM v9 vol3	74	0.1000	Calculated Value		738	EFLHcool, from 20
414	Whole Home Efficiency	ASHP SEER 16 - Replace Electric Resistance Heat	410		4.6804	72.0%	IL TRM v9 vol3	74	0.1041	Calculated Value		738	EFLHcool, from 20
415	Whole Home Efficiency	ASHP SEER 17	411		0.4749	72.0%	IL TRM v9 vol3	74	0.1291	Calculated Value		738	EFLHcool, from 20
416	Whole Home Efficiency	ASHP SEER 17 - Early Replacement	412		2.5765	72.0%	IL TRM v9 vol3	74	0.5357	Calculated Value		738	EFLHcool, from 20
417	Whole Home Efficiency	ASHP SEER 17 - Early Replacement (Future)	413		0.6395	72.0%	IL TRM v9 vol3	74	0.1731	Calculated Value		738	EFLHcool, from 20
418	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat	414		0.1764	72.0%	IL TRM v9 vol3	74	0.1480	Calculated Value		738	EFLHcool, from 20
419	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	415		0.5850	72.0%	IL TRM v9 vol3	74	0.5357	Calculated Value		738	EFLHcool, from 20
420	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	416		0.1778	72.0%	IL TRM v9 vol3	74	0.1731	Calculated Value		738	EFLHcool, from 20
421	Whole Home Efficiency	ASHP SEER 18	417		0.4749	72.0%	IL TRM v9 vol3	74	0.2214	Calculated Value		738	EFLHcool, from 20
422	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement	418		2.5765	72.0%	IL TRM v9 vol3	74	0.6196	Calculated Value		738	EFLHcool, from 20
423	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	419		0.6395	72.0%	IL TRM v9 vol3	74	0.2570	Calculated Value		738	EFLHcool, from 20
424	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat	420		0.1764	72.0%	IL TRM v9 vol3	74	0.2214	Calculated Value		738	EFLHcool, from 20
425	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	421		0.5850	72.0%	IL TRM v9 vol3	74	0.6196	Calculated Value		738	EFLHcool, from 20
426	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	422		0.1778	72.0%	IL TRM v9 vol3	74	0.2570	Calculated Value		738	EFLHcool, from 20
427	Whole Home Efficiency	ASHP SEER 21	423		0.4749	72.0%	IL TRM v9 vol3	74	0.2581	Calculated Value		738	EFLHcool, from 20
428	Whole Home Efficiency	ASHP SEER 21 - Early Replacement	424		2.5765	72.0%	IL TRM v9 vol3	74	0.6623	Calculated Value		738	EFLHcool, from 20
429	Whole Home Efficiency	ASHP SEER 21 - Early Replacement (Future)	425		0.6395	72.0%	IL TRM v9 vol3	74	0.2997	Calculated Value		738	EFLHcool, from 20
430	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat	426		0.1764	72.0%	IL TRM v9 vol3	74	0.2582	Calculated Value		738	EFLHcool, from 20
431	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	427		0.5850	72.0%	IL TRM v9 vol3	74	0.6623	Calculated Value		738	EFLHcool, from 20
432	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	428		0.1778	72.0%	IL TRM v9 vol3	74	0.2997	Calculated Value		738	EFLHcool, from 20
433	Whole Home Efficiency	CAC SEER 16	429		0.2199	68.0%	IL TRM v9 vol3	92	0.1415	Calculated Value		738	EFLHcool, from 20
434	Whole Home Efficiency	CAC SEER 16 - Early Replacement	430		0.6291	68.0%	IL TRM v9 vol3	92	0.9337	Calculated Value		738	EFLHcool, from 20
435	Whole Home Efficiency	CAC SEER 16 - Early Replacement (Future)	431		0.2210	68.0%	IL TRM v9 vol3	92	0.2330	Calculated Value		738	EFLHcool, from 20
436	Whole Home Efficiency	CAC SEER 17	432		0.2373	68.0%	IL TRM v9 vol3	92	0.1519	Calculated Value		738	EFLHcool, from 20

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437	Whole Home Efficiency	CAC SEER 17 - Early Replacement	433		0.6454	68.0%	IL TRM v9 vol3	92	0.9496	Calculated Value		738	EFLHcool, from 20
438	Whole Home Efficiency	CAC SEER 17 - Early Replacement (Future)	434		0.2373	68.0%	IL TRM v9 vol3	92	0.2489	Calculated Value		738	EFLHcool, from 20
439	Whole Home Efficiency	CAC SEER 17+ - Early Replacement	435		0.2373	68.0%	IL TRM v9 vol3	92	1.4887	Calculated Value		738	EFLHcool, from 20
440	Whole Home Efficiency	CAC SEER 17+ - Early Replacement (Future)	436		0.6454	68.0%	IL TRM v9 vol3	92	0.4377	Calculated Value		738	EFLHcool, from 20
441	Whole Home Efficiency	CAC SEER 17+ - Replace at Fail	437		0.2373	68.0%	IL TRM v9 vol3	92	0.1818	Calculated Value		738	EFLHcool, from 20
442	Whole Home Efficiency	Dehumidifier Recycling	438		0.1770	37.0%			0.1752	IL TRM v8 -5.1.3		1632	IL TRM v8 -5.1.3
443	Whole Home Efficiency	Dehumidifiers	439			37.0%	IL TRM v9 vol3	16	0.0231	Calculated Value		1632	IL TRM v9 vol3
444	Whole Home Efficiency	Dehumidifiers_ENERGY STAR Most Efficient	440			37.0%	IL TRM v9 vol3	16	0.0561	Calculated Value		1632	IL TRM v9 vol3
445	Whole Home Efficiency	Duct Repair and Sealing	441			46.6%	Calculated Value		0.1893	Calculated Value			
446	Whole Home Efficiency	Duct Repair and Sealing_MF	442			46.6%	Calculated Value		0.0516	Calculated Value			
447	Whole Home Efficiency	ENERGY STAR Freezers	443			95.0%	IL TRM v9 vol3	26	0.0100	Calculated Value		5890	IL TRM v9 vol3
448	Whole Home Efficiency	ENERGY STAR Pool Pump and motor w/ auto controls - n	444		1.4584	83.1%	Calculated Value		1.3195	Calculated Value			
449	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 201+	445		0.0561	66.7%	IL TRM v9 vol3	7	0.1199	Calculated Value		5844	IL TRM v9 vol3
450	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 51-200	446		0.0296	66.7%	IL TRM v9 vol3	7	0.0579	Calculated Value		5844	IL TRM v9 vol3
451	Whole Home Efficiency	ENERGY STAR VFDs on Residential Swimming Pool Pump	447		1.5426	83.1%	Calculated Value		1.2589	Calculated Value			
452	Whole Home Efficiency	Exterior Lighting - Photosensor Control	448	Cell Daylight Sensor					-				
453	Whole Home Efficiency	Freezer Recycling	449		0.1033	102.8%	IL TRM v9 vol3	41	0.0610	Calculated Value		8766	IL TRM v9 vol3
454	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 23	450		2.2430	43.0%	IL TRM v9 vol3	154	0.1711	Calculated Value		738	MO TRM 2017 vol
455	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 30	451		2.2430	43.0%	IL TRM v9 vol3	154	0.1870	Calculated Value		738	MO TRM 2017 vol
456	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	452		0.7092	12.0%	IL TRM v9 vol3	201	0.0837	Calculated Value		2533	IL TRM v9 vol3
457	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	453		0.9508	12.0%	IL TRM v9 vol3	201	0.1142	Calculated Value		2533	IL TRM v9 vol3
458	Whole Home Efficiency	High Efficiency Sound Bars	454	Energy 2019 TRM		10.0%	Wisconsin Focus on Energy 2019 TRM		0.0032	Wisconsin Focus on Energy 2019 TRM			
459	Whole Home Efficiency	High Efficiency Water Cooler_Cold Water Only	455			100.0%	IL TRM v8-5.1.11		0.0055	IL TRM v8-5.1.11			
460	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-On D	456			100.0%	IL TRM v8-5.1.11		0.0066	IL TRM v8-5.1.11			
461	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-Stora	457			100.0%	IL TRM v8-5.1.11		0.0141	IL TRM v8-5.1.11			
462	Whole Home Efficiency	HVAC Maintenance and Tune-up_SF: CAC	458		74.3478	68.0%	IL TRM v7 vol3	127	0.0173	Calculated Value			
463	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC/ER_SF	459						0.0002	Calculated			
464	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC_SF	460						0.0002	Calculated			
465	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_HP_SF	461						0.0002	Calculated			
466	Whole Home Efficiency	LED Exit Sign_MF	462		0.0058	100.0%	IL TRM v9 vol2	509	0.0096	Calculated Value		8766	IL TRM v9 vol2
467	Whole Home Efficiency	LED Flood Light (<15W) (Exterior)	463		0.0590	27.3%	IL TRM v9 vol3	286	-	Calculated Value		2475	IL TRM v9 vol3
468	Whole Home Efficiency	LED Nightlights	464			0.0%	IL TRM v9 vol3	294	-	Calculated Value		4380	IL TRM v9 vol3
469	Whole Home Efficiency	Linear Lighting (MF Common area)	465		0.0688	12.8%	IL TRM v9 vol3	278	0.0131	Calculated Value		974	IL TRM v9 vol3
470	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	466		1.3603	2.2%	IL TRM v9 vol3	207	0.0247	Calculated Value		14	IL TRM v9 vol3
471	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	467		0.3703	2.2%	IL TRM v9 vol3	207	0.0165	Calculated Value		102	IL TRM v9 vol3
472	Whole Home Efficiency	Low Flow Showerhead	468		0.8051	2.8%	IL TRM v9 vol3	217	0.0090	Calculated Value		255	IL TRM v9 vol3
473	Whole Home Efficiency	Low-E storm Windows_AC/ER_MF	469						0.0006	Calculated			
474	Whole Home Efficiency	Low-E storm Windows_AC/ER_SF	470						0.0012	Calculated			
475	Whole Home Efficiency	Low-E storm Windows_AC_MF	471						0.0006	Calculated			
476	Whole Home Efficiency	Low-E storm Windows_AC_SF	472						0.0011	Calculated			
477	Whole Home Efficiency	Low-E storm Windows_HP_MF	473						0.0006	Calculated			
478	Whole Home Efficiency	Low-E storm Windows_HP_SF	474						0.0011	Calculated			
479	Whole Home Efficiency	Ozone Laundry	475			3.8%	IL TRM v8-5.1.12		0.0126	Calcualted		264	IL TRM v8-5.1.12
480	Whole Home Efficiency	Pool Pump Timer	476			0.0%	Ameren MO TRM 201	182	0.0487	Calculated Value			
481	Whole Home Efficiency	Refrigerator Recycling	477		0.1028	108.1%	IL TRM v9 vol3	41	0.0892	Calculated Value		8766	IL TRM v9 vol3
482	Whole Home Efficiency	Room Air Conditioner Recycling	478		0.8673	30.0%	IL TRM v9 vol3	45	0.2539	Calculated Value		428	IL TRM v9 vol3
483	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Exterior)	479		0.0333	62.0%	IL TRM v9 vol2 (MF - N	470	0.0089	Calculated Value		8766	IL TRM v7 vol2 - Ex
484	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Interior)	480		0.0370	62.0%	IL TRM v9 vol2 (MF - N	470	0.0045	Calculated Value		5950	IL TRM v7 vol3 - as

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485	Whole Home Efficiency	Screw In - LEDs (In-Unit)	481		0.0335	12.8%	IL TRM v9 vol3, assum	278	0.0043	Calculated Value		1089	IL TRM v9 vol3 - A
486	Whole Home Efficiency	Screw In - Specialty LEDs	482		0.0459	12.8%	IL TRM v9 vol3 - Weigł	254	0.0053	Calculated Value		974	IL TRM v9 vol3 - W
487	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	483		0.0510	27.3%	IL TRM v9 vol2 - Exteri	254	0.0119	Calculated Value		2475	IL TRM v9 vol3 (Ex
488	Whole Home Efficiency	Shade Tree	484 on						-				
489	Whole Home Efficiency	Smart Power Strip - Wh7-Plug	485	65	0.0103	80.0%	IL TRM v9 vol3	64	0.0114	IL TRM v9 vol3	66	7129	IL TRM v9 vol3
490	Whole Home Efficiency	Variable Speed Pump - MF Hot Water Recirculation	486			100.0%	WI TRM 2018	221	0.5829	Calculated Value			
491	Whole Home Efficiency	Water Heater - Solar System	487						0.3960	Calculated			
492	Whole Home Efficiency	Water Heater Tank Wrap_40 gallon	488		0.0153	100.0%	IL TRM v9 vol3	228	0.0204	Calculated Value		8766	IL TRM v9 vol3
493	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon	489		0.0153	100.0%	IL TRM v9 vol3	228	0.0222	Calculated Value		8766	IL TRM v9 vol3
494	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon_MF	490		0.0153	100.0%	IL TRM v9 vol3	228	0.0223	Calculated Value		8766	IL TRM v9 vol3
495	Whole Home Efficiency	Water Heater Tank Wrap_80 gallon	491		0.0153	100.0%	IL TRM v9 vol3	228	0.0236	Calculated Value		8766	IL TRM v9 vol3
496	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_MF	492						0.0009	Calculated			
497	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_SF	493						0.0017	Calculated			
498	Home Energy Education	Behavioral Measures Tier 1	494						0.0257				
499	Home Energy Education	Behavioral Measures Tier 2	495						0.0307				
500	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	496		1.3603	2.2%	IL TRM v9 vol3	207	0.0226	Calculated Value		14	IL TRM v9 vol3
501	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	497		1.3603	2.2%	IL TRM v9 vol3	207	0.0225	Calculated Value		14	IL TRM v9 vol3
502	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	498		0.3703	2.2%	IL TRM v9 vol3	207	0.0239	Calculated Value		102	IL TRM v9 vol3
503	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	499		0.3703	2.2%	IL TRM v9 vol3	207	0.0239	Calculated Value		102	IL TRM v9 vol3
504	Whole Home Efficiency	Low Flow Showerhead	500		0.8051	2.8%	IL TRM v9 vol3	217	0.0085	Calculated Value		255	IL TRM v9 vol3
505	Whole Home Efficiency	Low Flow Showerhead	501		0.8051	2.8%	IL TRM v9 vol3	217	0.0093	Calculated Value		255	IL TRM v9 vol3
506	Whole Home Efficiency	Screw In - LEDs (In-Unit)	502		0.0335	12.8%	IL TRM v9 vol3, assum	278	0.0045	Calculated Value		1089	IL TRM v9 vol3 - A
507	Whole Home Efficiency	Screw In - Specialty LEDs	503		0.0459	12.8%	IL TRM v9 vol3 - Weigł	254	0.0053	Calculated Value		974	IL TRM v9 vol3 - W
508	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	504		0.0510	27.3%	IL TRM v9 vol2 - Exteri	254	0.0119	Calculated Value		2475	IL TRM v9 vol3 (Ex

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5	Business Demand Response	DR Auto DR and Manual DLC	1		1							
6	Whole Business Efficiency	Advanced Water Heater Controls	2		20							
7	Whole Business Efficiency	Air Conditioner Tune-up	3		3	IL TRM v8, 4.4.1Air Conditioner Tune-up		Air Conditioner Tune-up		IL TRM v8, 4.4.1Air Conditioner Tune-up		Existing Air Conditione
8	Whole Business Efficiency	Air Curtains (Dryer)	4		15							
9	Whole Business Efficiency	Air Curtains (Oven)	5		20							
10	Whole Business Efficiency	Air-Cooled Chiller	6		23	IL TRM v9 vol2	199	IPLVee (EER)	13.34	SCEG 2020 Minimum Eff Requ		IPLVbase (EER)
11	Whole Business Efficiency	Air-Source Heat Pump =240,000 and <760,000 Btu/h	7		15	IL TRM v6 vol2	165	EERee	12.2	Program Tracking Data		EERBase
12	Whole Business Efficiency	Air-Source Heat Pump =65,000 and <135,000 Btu/h	8		15	IL TRM v6 vol2	165	EERee	11	Program Tracking Data		EERBase
13	Whole Business Efficiency	ASHP >240kbtu	9		15	IL TRM v6 vol2	165	EERee	12.2	Program Tracking Data		EERBase
14	Whole Business Efficiency	ASHP 65 - 135kbtu_Replacing ER	10		15	IL TRM v6 vol2	165	EERee	11	Program Tracking Data		EERBase
15	Whole Business Efficiency	Automated Temperature Control	11		25							
16	Whole Business Efficiency	Automatic door closer for walk-in freezers	12		8	IL TRM v9	571	Installation of an automatic, hydraulic		IL TRM v9	571	A walk in freezer with
17	Whole Business Efficiency	Automatic door closer for walk-in coolers	13		8	IL TRM v9	571	Installation of an automatic, hydraulic		IL TRM v9	571	A walk in cooler witho
18	Whole Business Efficiency	Business Custom - Cooking	14		15							
19	Whole Business Efficiency	Business Custom - HVAC	15		16							
20	Whole Business Efficiency	Business Custom - Lighting	16		11							
21	Whole Business Efficiency	Business Custom - Misc	17		16							
22	Whole Business Efficiency	Business Custom - New Construction	18		15							
23	Whole Business Efficiency	Business Custom - Refrigeration	19		16							
24	Whole Business Efficiency	Business Custom - Retrocomisioning	20		5							
25	Whole Business Efficiency	CAC >240 kBtuh_CEE Advanced Tier	21	133 (portfolic	15	IL TRM v6 vol2	203	IEER	13	Average of 2019 Program Trac		IEER
26	Whole Business Efficiency	CAC >240 kBtuh_CEE Tier 2	22	133 (portfolic	15	IL TRM v6 vol2	203	IEER	13	Average of 2019 Program Trac		IEER
27	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Air Cooled	23		5	FOE Cooling System Tune-Up,ID 2666-2669		Chiller Tune-up/Diagnostics		FOE Cooling System Tune-Up,I		air-cooled chillers tha
28	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Water Cooled	24		5	FOE Cooling System Tune-Up,ID 2666-2669		Chiller Tune-up/Diagnostics		FOE Cooling System Tune-Up,I		water-cooled chillers
29	Whole Business Efficiency	Demand Controlled Ventillation (Electric Heat)	25		10	IL TRM v6 vol2	226					
30	Whole Business Efficiency	Demand Controlled Ventillation (Heat Pump)	26		10	IL TRM v6 vol2	226					
31	Whole Business Efficiency	Demand-Controlled Ventilation	27		15	IL TRM v6 vol2	226					
32	Whole Business Efficiency	Destratification Fans	28		20							
33	Whole Business Efficiency	Door heater controls for cooler (Conductivity-based cont	29		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
34	Whole Business Efficiency	Door heater controls for cooler (Humidity-based control	30		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
35	Whole Business Efficiency	Door heater controls for freezer (Conductivity-based cor	31		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
36	Whole Business Efficiency	Door heater controls for freezer (Humidity-based contro	32		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
37	Whole Business Efficiency	Doors, Covers and Curtains	33		5							
38	Whole Business Efficiency	ECM Motors Walk-In Coolers & Freezers	34		13	IL TRM v5 vol2	448	ECM Motor		IL TRM v5 vol2	448	Shaded pole motor
39	Whole Business Efficiency	Efficient Lighting Design	35		16							
40	Whole Business Efficiency	Eliminate Air Leaks	36		3							
41	Whole Business Efficiency	Energy Monitoring and Process Controls (Sub-metering,	37		15							
42	Whole Business Efficiency	ENERGY STAR Beverage Machine w/ software	38		14	IL TRM v6 vol2	445	Energy Star Vending Machine w softw		IL TRM v6 vol2	445	Standard Vending Ma
43	Whole Business Efficiency	ENERGY STAR Beverage Machine w/o software	39		14	IL TRM v6 vol2	445	Energy Star Vending Machine w/o sof		IL TRM v6 vol2	445	Standard Vending Ma
44	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (0 < V <13)	40		12	Ameren MO TRM 2018	65	IdleRateESTAR	150.5	Ameren MO TRM	66	IdleRateBase
45	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (13 = V <28)	41		12	Ameren MO TRM 2018	65	IdleRateESTAR	294	Ameren MO TRM	66	IdleRateBase
46	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (28 = V)	42		12	Ameren MO TRM 2018	65	IdleRateESTAR	309.9	Ameren MO TRM	66	IdleRateBase
47	Whole Business Efficiency	ENERGY STAR Laptop	43		4	Ameren TRM 2.7.1 Laptop Computer		Energy Star Laptop Vers	Ameren TRM 2.7.1 Laptop Computer			Non ENERGY STAR qu
48	Whole Business Efficiency	ENERGY STAR Server_W<1500	44		15	ICF Expert		Energy Star Server Version 2.0 with p	Ameren TRM 2.7.4 Computer			Non ENERGY STAR qu
49	Whole Business Efficiency	ENERGY STAR Server_W=1501-3000	45		15	ICF Expert		Energy Star Server Version 2.0 with p	Ameren TRM 2.7.4 Computer			Non ENERGY STAR qu
50	Whole Business Efficiency	ENERGY STAR Steam Cooker	46		12	IL TRM v6 vol2	25	SteamModeESTAR		IL TRM v6 vol2	27	SteamModeBase
51	Whole Business Efficiency	Engineered Nozzles	47		15							
52	Whole Business Efficiency	Exterior LED Linear Tube Light Bulb	48	470	10	IL TRM v6 vol2 (calculated value b	372-374	4-ft LED Linear Replacer	14.9	Program Tracking Data		32W 4-ft T8 with Elect

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53	Whole Business Efficiency	Exterior LED replacing < 175W Fixture or Mogul Screw-B	49	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	27.2	Program Tracking Data		< 175 W HID Fixture
54	Whole Business Efficiency	Exterior LED replacing > 400W Fixture or Mogul Screw-B	50	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	185.3	Program Tracking Data		> 400 W HID Fixture
55	Whole Business Efficiency	Exterior LED replacing 175W-250W Fixture or Mogul Scre	51	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	73.4	Program Tracking Data		175 W HID - 250 W HI
56	Whole Business Efficiency	Exterior LED replacing 251W-400W Fixture or Mogul Scre	52	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	139.7	Program Tracking Data		320 W Pulse Start and
57	Whole Business Efficiency	Exterior Lighting BiLevel Control w Override, 150 to 1000	53		10	MI TRM 2019 (Excel database)		Two Level HID Lighting Control		MI TRM 2019 (Excel database)		Pulse start metal halic
58	Whole Business Efficiency	Floating Head Pressure Controls	54		15							
59	Whole Business Efficiency	Free Cooling	55		12							
60	Whole Business Efficiency	Ground Source Heat Pump	56		20	IL TRM v6 vol2	165	EERee	19	Program Tracking Data		EERBase
61	Whole Business Efficiency	Heat Pump Tune-ups	57		3	IL TRM v8, 4.4.1		Heat Pump Tune-ups		IL TRM v8, 4.4.1		Existing Heat Pump
62	Whole Business Efficiency	High Efficiency Battery Charger (for Forklifts)	58		20							
63	Whole Business Efficiency	High Efficiency Chiller	59		20							
64	Whole Business Efficiency	High Efficiency Dry-Type Transformers	60		30							
65	Whole Business Efficiency	High Efficiency Light Fixtures	61		16							
66	Whole Business Efficiency	High Efficiency Pool Pump	62		10	IL TRM v6 vol3	296	High Efficiency		IL TRM v6 vol3	296	Standard Pool Pump
67	Whole Business Efficiency	High Efficiency Rooftop AC	63		15							
68	Whole Business Efficiency	Impeller Trimming (Pump)	64		20							
69	Whole Business Efficiency	Improve Compressor Components	65		15							
70	Whole Business Efficiency	Improve Fan Components	66		15							
71	Whole Business Efficiency	Improve Pump Components	67		15							
72	Whole Business Efficiency	Insulation (Dryer)	68		15							
73	Whole Business Efficiency	Insulation (Furnace)	69		15							
74	Whole Business Efficiency	Insulation (Kiln)	70		15							
75	Whole Business Efficiency	Insulation (Oven)	71		15							
76	Whole Business Efficiency	Integrated Control System	72		10							
77	Whole Business Efficiency	Interior Daylighting Controls Replacing No Controls	73	338	8	IL TRM v6 vol2	402	Photocell Occupancy Se	570	Based on measure name: Wall		No Control
78	Whole Business Efficiency	Interior Directional LED Lamp replacing 50-70W Lamp	74	338	7	IL TRM v5 vol2	369	LED (watts)	10.7	Program Tracking Data		Incandescent (watts)
79	Whole Business Efficiency	Interior Directional LED Lamp replacing 71-110W Lamp	75	338	7	IL TRM v5 vol2	369	LED (watts)	14.8	Program Tracking Data		Incandescent (watts)
80	Whole Business Efficiency	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	76	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 1X4 Retrofit Kits	29.6	Program Tracking Data		1x4 T8, T5, or T5HO Fl
81	Whole Business Efficiency	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	77	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 1X4 Troffer or Linea	41.5	Program Tracking Data		1X4 Troffer or Linear A
82	Whole Business Efficiency	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	78	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X2 Retrofit Kits	30.2	Program Tracking Data		2x2 T8, T5 or T5HO Flu
83	Whole Business Efficiency	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	79	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X2 Troffer or Linea	32.3	Program Tracking Data		2X2 Troffer or Linear A
84	Whole Business Efficiency	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	80	rk	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X4 Retrofit Kits	35.1	Program Tracking Data		2x4 T8, T5, or T5HO Fl
85	Whole Business Efficiency	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	81	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X4 Troffer or Linea	46	Program Tracking Data		2X4 Troffer or Linear A
86	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 101-155V	82	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retrof	23.1	Program Tracking Data		Incandescent, HID and
87	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 45-60W F	83	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retrof	11	Program Tracking Data		Incandescent and Hal
88	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 61-100W	84	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retrof	18	Program Tracking Data		Incandescent and Hal
89	Whole Business Efficiency	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lam	85	fied HOU wei	12	IL TRM v6 vol2 (calculated value b	372-374	2-ft LED Linear Replacer	9.9	Program Tracking Data		17W 2-ft T8 with Elect
90	Whole Business Efficiency	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lam	86	fied HOU wei	12	IL TRM v6 vol2 (calculated value b	372-374	4-ft LED Linear Replacer	13.3	Program Tracking Data		32W 4-ft T8 with Elect
91	Whole Business Efficiency	Interior Lighting - Embedded Fixture Controls	87		8	IL TRM v8,4.5.10 Lighting Controls		Integrated Occupancy Sensor:	Integrated Occupancy for LED Interior			Lighting System Uncor
92	Whole Business Efficiency	Interior Occupancy or Vacancy Sensor Replacing No Con	88	338	8	IL TRM v6 vol2	402	Wall-Mount Occupancy	425	Based on measure name: Rem		No Control
93	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 40-60W Lar	89	338	6	IL TRM v6 vol2	363	LED (watts)	9.05	Program Tracking Data		EISA tier 1 compliant l
94	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 61-100W La	90	338	6	IL TRM v6 vol2	363	LED (watts)	11	Program Tracking Data		EISA tier 1 compliant l
95	Whole Business Efficiency	Kitchen Demand Controlled Ventilation	91		10	IL TRM v6 vol2	72					
96	Whole Business Efficiency	LED Exit Sign	92	509	5	IL TRM v9 vol2	508	LED (watts)	2.8	Program Tracking Data		Fluorescent (watts)
97	Whole Business Efficiency	LED Flood Light (<15W)	93	338	10	IL TRM v6 vol2	363	LED (watts)	8.7	Program Tracking Data		Metal Halide (watts)
98	Whole Business Efficiency	LED Flood Light (>=15W)	94	338	10	IL TRM v6 vol2	363	LED (watts)	16.2	Program Tracking Data		Metal Halide (watts)
99	Whole Business Efficiency	LED High Bay fixture replacing > 750W fixture	95	337-338 (por	11	IL TRM v6 vol2 (calculated value b	370-372	LED High Bay (watts)	244.6	Program Tracking Data		Pulse Start Metal Hali
100	Whole Business Efficiency	LED High Bay Fixture replacing 451W - 750W fixture	96	337-338 (por	11	IL TRM v6 vol2 (calculated value b	370-372	LED High Bay (watts)	183.1	Program Tracking Data		Pulse Start Metal Hali

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101	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	97	fied HOU wei	11	IL TRM v6 vol2 (calculated value b	373374	LED High Bay (watts)	350	Program Tracking Data		Pulse Start Metal Hali
102	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	98	fied HOU wei	11	IL TRM v6 vol2 (calculated value b	373374	LED High Bay (watts)	240	Program Tracking Data		Pulse Start Metal Hali
103	Whole Business Efficiency	LED Low Bay Fixture replacing 150W-300W fixture	99	337-338 (por	11	IL TRM v6 vol2 (calculated value b	372-374	LED Low Bay (watts)	116.5	Program Tracking Data		Pulse Start Metal Hali
104	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	100	fied HOU wei	11	IL TRM v6 vol2 (calculated value b	373374	LED Low Bay (watts)	47.3	Program Tracking Data		Pulse Start Metal Hali
105	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	101	fied HOU wei	11	IL TRM v6 vol2 (calculated value b	373374	LED Low Bay (watts)	47.3	Program Tracking Data		Pulse Start Metal Hali
106	Whole Business Efficiency	LED Low/High Bay Fixture replacing 301W-450W fixture	102	rk	11	IL TRM v6 vol2 (calculated value b	372-374	LED High/Low Bay (watt	174.5	Program Tracking Data		Pulse Start Metal Hali
107	Whole Business Efficiency	LED low/high bay mogul screw-base lamp/retrofit kit rep	103	fied HOU wei	11	IL TRM v6 vol2 (calculated value b	373374	LED High/Low Bay (watt	120.5	Program Tracking Data		Pulse Start Metal Hali
108	Whole Business Efficiency	LED Open Sign	104	509	15	IL TRM v9 vol2	508	LED (watts)	2.8	Program Tracking Data		Fluorescent (watts)
109	Whole Business Efficiency	Lighting Controls: ON/OFF Timer Settings	105		8							
110	Whole Business Efficiency	Low Flow Faucet Aerator Bathroom	106		10	IL TRM v5 vol2	93	Low Flow (GPM)	0.94	IL TRM v5 vol2	94	Standard (GPM)
111	Whole Business Efficiency	Low Flow Faucet Aerator Kitchen	107	96	10	IL TRM v5 vol2	93	Low Flow (GPM)	0.94	IL TRM v5 vol2	94	Standard (GPM)
112	Whole Business Efficiency	Low Pressure-Drop Filters	108		10							
113	Whole Business Efficiency	Match Compressor Size to Load	109		15							
114	Whole Business Efficiency	Match Pump Size to Load	110		15							
115	Whole Business Efficiency	Minimize Operating Air Pressure	111		1							
116	Whole Business Efficiency	Minimum Cylinder Clearance	112		5							
117	Whole Business Efficiency	Networked Lighting Controls	113		16	IL TRM v9 vol2	540	Control system that me	7665	Average watts controlled per s		LED lighting system w
118	Whole Business Efficiency	Open Display Case_Low Temperature	114		15	FOE TRM	77	DOE 2017 Energy Compliant cases		FOE TRM		Freezer open multi-de
119	Whole Business Efficiency	Optimized Chilled Water Temperature and/or Optimized	115		3							
120	Whole Business Efficiency	Optimized Condenser Pressure	116		3							
121	Whole Business Efficiency	Optimized Distribution System	117		10							
122	Whole Business Efficiency	Optimized Duct Design to Improve Efficiency	118		15							
123	Whole Business Efficiency	Packaged Terminal Air Conditioner	119		8	IL TRM v6 vol2	184	EER	12	Program Tracking Data		EER
124	Whole Business Efficiency	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101\	120	337	6	IL TRM v6 vol2 (calculated value b	415-416	4-ft 2L to 3L 4' T5, T5HO	84	Program Tracking Data		125W - 175W HID Fixt
125	Whole Business Efficiency	Parking Garage LED Linear Tube Light Bulb	121	470	6	IL TRM v6 vol2 (calculated value b	372-374	2-ft LED Linear Replacer	10	Program Tracking Data		17W 2-ft T8 with Elect
126	Whole Business Efficiency	Parking Garage LED replacing 101W-175W Fixture or Mo	122	337	6	IL TRM v6 vol2 (calculated value b	372-374	LED Parking Garage Ligh	56.4	Program Tracking Data		125W - 175W HID Fixt
127	Whole Business Efficiency	Premium Efficiency Air Dryer (Compressors)	123		20							
128	Whole Business Efficiency	Premium Efficiency Control with VSDs (Fans)	124		10							
129	Whole Business Efficiency	Premium Efficiency Control with VSDs (Other motors)	125		15							
130	Whole Business Efficiency	Premium Efficiency Control with VSDs (Pumps)	126		15							
131	Whole Business Efficiency	Pre-Rinse Spray Valves Large	127		5	IL TRM v5 vol2	62	Low Flow (GPM)	1.06	IL TRM v5 vol2	64	Standard (GPM)
132	Whole Business Efficiency	Pre-Rinse Spray Valves Medium	128		5	IL TRM v5 vol2	62	Low Flow (GPM)	1.06	IL TRM v5 vol2	64	Standard (GPM)
133	Whole Business Efficiency	Pre-Rinse Spray Valves Small	129		5	IL TRM v5 vol2	62	Low Flow (GPM)	1.06	IL TRM v5 vol2	64	Standard (GPM)
134	Whole Business Efficiency	Process Heat Recovery to Preheat Makeup Water	130		15							
135	Whole Business Efficiency	Q-Sync Motors for Reach-in Coolers_9-12 Watt	131	ers	10	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in anc		9-12 Watt Q-Sync motor with a minim		IL TRM v8,4.6.11 Q-Sync Moto		Existing shaded pole m
136	Whole Business Efficiency	Q-Sync Motors for Reach-in Freezers_9-12 Watt	132	ers	10	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in anc		9-12 Watt Q-Sync motor with a minim		IL TRM v8,4.6.11 Q-Sync Moto		Existing shaded pole m
137	Whole Business Efficiency	Q-Sync Motors for Walk-in Coolers_38-50 Wtt	133	ers	10	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in anc		38-50 Watt Q-Sync motor with a min		IL TRM v8,4.6.11 Q-Sync Moto		Existing shaded pole m
138	Whole Business Efficiency	Q-Sync Motors for Walk-in Freezers_38-50 Watt	134	ers	10	IL TRM v8,4.6.11 Q-Sync Motors for Walk-in anc		38-50 Watt Q-Sync motor with a min		IL TRM v8,4.6.11 Q-Sync Moto		Existing shaded pole m
139	Whole Business Efficiency	Reduce or Control Fan Speed	135		15							
140	Whole Business Efficiency	Refrigerant Charging Correction_Heavy Duty	136		2	MI Weather Sensitive Database		Refrigerant Charging Correction		MI Weather Sensitive Databas		Uncorrected refrigera
141	Whole Business Efficiency	Remove 4ft Lamp from T8 or T12 system	137	338	11	IL TRM v6 vol2	346	Remove T8		IL TRM v6 vol2	346	T8 4 ft (watts)
142	Whole Business Efficiency	Remove 8ft Lamp from T8 or T12 System	138	338	11	IL TRM v6 vol2	346	Remove T8		IL TRM v6 vol2	346	T8 8 ft (watts)
143	Whole Business Efficiency	Replace Compressed Air Use with Mechanical or Electric	139		20							
144	Whole Business Efficiency	Smart Defrost Controls	140		16							
145	Whole Business Efficiency	Strip Curtains Cooler	141	457	4	IL TRM v5 vol2	456	Strip Curtain - Energy Sa	72.5	IL TRM v7 vol2 (a	520	No strip curtain
146	Whole Business Efficiency	Strip Curtains Freezer	142	457	4	IL TRM v5 vol2	456	Strip Curtain - Energy Sa	234	IL TRM v7 vol2 (a	520	No strip curtain
147	Whole Business Efficiency	Synchronous Belts	143		10							
148	Whole Business Efficiency	Use Cooler Air from Outside for Make Up Air	144		20							

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149	Whole Business Efficiency	Variable Speed Drives	145		15							
150	Whole Business Efficiency	Variable Speed Drives for HVAC Supply and Return Fans_	146		15	IL TRM v9 vol2	306	VFD applied to HVAC fan motor that h		IL TRM v9 vol2	306	Motor installed witho
151	Whole Business Efficiency	Variable Speed ECM Pump, <100 Watts Max Input, Dome	147		15	WI TRM 2018	218					
152	Whole Business Efficiency	Variable Speed ECM Pump, 100 - 500 Watts Max Input, D	148		15	WI TRM 2018	218					
153	Whole Business Efficiency	Volume Pocket Adjustments	149		20							
154	Whole Business Efficiency	VSD on Chiller Compressor	150		15	IL TRM v9 vol2	280	VSD applied to a motor without a VSD		IL TRM v9 vol2	280	Motor without a VSD
155	Whole Business Efficiency	VSD Pumps/Fan (Cooling Tower Fan)	151		15	IL TRM v9 vol2	280	VSD applied to a motor without a VSD		IL TRM v9 vol2	280	Motor without a VSD
156	Whole Business Efficiency	Warehouse Loading Dock Seals	152		10							
157	Whole Business Efficiency	Water Heater Tank Wrap	153	204	7	IL TRM v7 vol3	203	Water heater insulation increased fro		IL TRM v7 vol3	204	R12, 50-gal water hea
158	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	154		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.56	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
159	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	155		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.53	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
160	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	156		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.52	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
161	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	157		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.45	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
162	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	158		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.47	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
163	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	159		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.56	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
164	Whole Business Efficiency	Zero-Loss Condensate Drain	160		20							
165	Business Energy Education	Behavioral Measures Tier 1	161		1							
166	Business Energy Education	Strategic Energy Management	162		3							
167	Home Demand Response	DR Water Heater DLC	163		1	MN TRM v2.2	355	Electric water heater du				Electric water heater
168	Home Demand Response	Programmable Thermostat	164		1	IL TRM v9 vol3	146	Thermostats having the capability to adjust temperature setpoint ac				Manual-only tempera
169	Home Demand Response	Smart Thermostat	165		1	IL TRM v6 vol3	160	PCT				No PCT
170	Home Demand Response	Smart Thermostat - BYO	166		1	IL TRM v6 vol3	160	PCT				No PCT
171	Hard-to-Reach Businesses	Advanced Rooftop Unit Controls, 2000-4000 annual hour	167		10	IL TRM v7 vol2	350	RTU DCV controls with VFD and 2-spe		IL TRM v7 vol2	354	No RTU DCV controls
172	Hard-to-Reach Businesses	Air Conditioner Tune-up	168		3	IL TRM v8, 4.4.1Air Conditioner Tune-up		Air Conditioner Tune-up		IL TRM v8, 4.4.1Air Conditioner Tune-up		Existing Air Conditione
173	Hard-to-Reach Businesses	Air-Cooled Chiller	169		23	IL TRM v9 vol2	199	IPLVee (EER)	13.34	SCEG 2020 Minimum Eff Requ		IPLVbase (EER)
174	Hard-to-Reach Businesses	Air-Source Heat Pump =240,000 and <760,000 Btu/h	170		15	IL TRM v6 vol2	165	EERee	12.2	Program Tracking Data		EERBase
175	Hard-to-Reach Businesses	Air-Source Heat Pump <65,000 Btu/h	171		15	IL TRM v6 vol2	165	EERee	11.9	Program Tracking Data		EERBase
176	Hard-to-Reach Businesses	Air-Source Heat Pump =65,000 and <135,000 Btu/h	172		15	IL TRM v6 vol2	165	EERee	11	Program Tracking Data		EERBase
177	Hard-to-Reach Businesses	ASHP <65_Replacing ER	173		15	IL TRM v6 vol2	165	EERee	11.9	Program Tracking Data		EERBase
178	Hard-to-Reach Businesses	ASHP 135 - 240kbtu_Replacing ER	174		15	IL TRM v6 vol2	165	EERee	10.77	Guidehouse research using AH		EERBase
179	Hard-to-Reach Businesses	ASHP 65 - 135kbtu_Replacing ER	175		15	IL TRM v6 vol2	165	EERee	11	Program Tracking Data		EERBase
180	Hard-to-Reach Businesses	Business Custom - Cooking	176		15							
181	Hard-to-Reach Businesses	Business Custom - HVAC	177		16							
182	Hard-to-Reach Businesses	Business Custom - Lighting	178		11							
183	Hard-to-Reach Businesses	Business Custom - Misc	179		16							
184	Hard-to-Reach Businesses	Business Custom - New Construction	180		15							
185	Hard-to-Reach Businesses	Business Custom - Refrigeration	181		16							
186	Hard-to-Reach Businesses	Business Custom - Retrocomisioning	182		5							
187	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Advanced Tier	183	133 (portfolic	15	IL TRM v6 vol2	203	IEER	13	Average of 2019 Program Trac		IEER
188	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Tier 2	184	133 (portfolic	15	IL TRM v6 vol2	203	IEER	13	Average of 2019 Program Trac		IEER
189	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_Advanced Tier	185	133 (portfolic	15	IL TRM v6 vol2	203	IEER	20	Average of 2019 Program Trac		IEER
190	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_CEE Tier 2	186	133 (portfolic	15	IL TRM v6 vol2	203	IEER	20	Average of 2019 Program Trac		IEER
191	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Advanced Tie	187	133 (portfolic	15	IL TRM v6 vol2	203	IEER	20	Average of 2019 Program Trac		IEER
192	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Tier 1	188	133 (portfolic	15	IL TRM v6 vol2	203	IEER	20	Average of 2019 Program Trac		IEER
193	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Air Cooled	189		5	FOE Cooling System Tune-Up,ID 2666-2669		Chiller Tune-up/Diagnos	FOE Cooling S	FOE Cooling System Tune-Up,I		air-cooled chillers tha
194	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Water Cooled	190		5	FOE Cooling System Tune-Up,ID 2666-2669		Chiller Tune-up/Diagnos	FOE Cooling S	FOE Cooling System Tune-Up,I		water-cooled chillers
195	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/2"	191		15	IL TRM v6 vol2	472					
196	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/4"	192		15	IL TRM v6 vol2	472					

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197	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/8"	193		15	IL TRM v6 vol2	472	SCFM%Reduced	0.5	IL TRM v7 vol2	551	
198	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 5/16"	194		15	IL TRM v6 vol2	472					
199	Hard-to-Reach Businesses	Compressed Air - No Loss Condensate Drain/Valve	195	471	10	IL TRM v6 Vol2	470					
200	Hard-to-Reach Businesses	Demand Controlled Ventillation (Electric Heat)	196		10	IL TRM v6 vol2	226					
201	Hard-to-Reach Businesses	Demand Controlled Ventillation (Heat Pump)	197		10	IL TRM v6 vol2	226					
202	Hard-to-Reach Businesses	Door heater controls for cooler (Conductivity-based cont	198		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
203	Hard-to-Reach Businesses	Door heater controls for cooler (Humidity-based control	199		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
204	Hard-to-Reach Businesses	Door heater controls for freezer (Conductivity-based cor	200		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
205	Hard-to-Reach Businesses	Door heater controls for freezer (Humidity-based contro	201		10	IL TRM v6 vol2	439	Door heater control utilizing humidity		IL TRM v6 vol2	439	Standard heated door
206	Hard-to-Reach Businesses	Duct Efficiency Improvements	202		18	AR TRM v8.1	267	Duct Sealing Must Meet The Smacna		AR TRM v8.1	265	Leakage
207	Hard-to-Reach Businesses	Duct Insulation (Converted Residences)	203		20	AR TRM v8.1	273	R 5.6 - R 8		AR TRM v8.1	271	uninsulated metal sup
208	Hard-to-Reach Businesses	Duct Insulation (Small Commercial)	204		20	AR TRM v8.1	277	R0-R9 And R10-R20.		AR TRM v8.1	275	uninsulated metal sup
209	Hard-to-Reach Businesses	ECM Motors Walk-In Coolers & Freezers	205		13	IL TRM v6 vol2	442	ECM Motor		IL TRM v6 vol2	442	Standard Motor
210	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/ software	206		14	IL TRM v6 vol2	445	Energy Star Vending Machine w/o sof		IL TRM v6 vol2	445	Standard Vending Ma
211	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/o software	207		14	IL TRM v6 vol2	445	Energy Star Vending Machine w softw		IL TRM v6 vol2	445	Standard Vending Ma
212	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (0 < V <13)	208		12	Ameren MO TRM 2018	65	IdleRateESTAR	150.5	Ameren MO TRM	66	IdleRateBase
213	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (13 = V <28)	209		12	Ameren MO TRM 2018	65	IdleRateESTAR	294	Ameren MO TRM	66	IdleRateBase
214	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (28 = V)	210		12	Ameren MO TRM 2018	65	IdleRateESTAR	309.9	Ameren MO TRM	66	IdleRateBase
215	Hard-to-Reach Businesses	ENERGY STAR Laptop	211		4	Ameren TRM 2.7.1 Laptop Computer		Energy Star Laptop Vers	Ameren TRM 2.7.1 Laptop Computer			Non ENERGY STAR qu
216	Hard-to-Reach Businesses	ENERGY STAR Server_W<1500	212		15	ICF Expert		Energy Star Server Version 2.0 with p	Ameren TRM 2.7.4 Computer			Non ENERGY STAR qu
217	Hard-to-Reach Businesses	ENERGY STAR Server_W=1501-3000	213		15	ICF Expert		Energy Star Server Version 2.0 with p	Ameren TRM 2.7.4 Computer			Non ENERGY STAR qu
218	Hard-to-Reach Businesses	ENERGY STAR Steam Cooker	214		12	IL TRM v6 vol2	25	SteamModeESTAR		IL TRM v6 vol2	27	SteamModeBase
219	Hard-to-Reach Businesses	Exterior LED Linear Tube Light Bulb	215	470	10	IL TRM v6 vol2 (calculated value b	372-374	4-ft LED Linear Replacer	14.9	Program Tracking Data		32W 4-ft T8 with Elect
220	Hard-to-Reach Businesses	Exterior LED replacing < 175W Fixture or Mogul Screw-Ba	216	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	27	Program Tracking Data		< 175 W HID Fixture
221	Hard-to-Reach Businesses	Exterior LED replacing > 400W Fixture or Mogul Screw-Ba	217	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	185	Program Tracking Data		> 400 W HID Fixture
222	Hard-to-Reach Businesses	Exterior LED replacing 175W-250W Fixture or Mogul Scre	218	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	73	Program Tracking Data		175 W HID - 250 W HI
223	Hard-to-Reach Businesses	Exterior LED replacing 251W-400W Fixture or Mogul Scre	219	178	12	IL TRM v6 vol2 (calculated value b	372-374	LED Exterior Lighting Fix	140	Program Tracking Data		320 W Pulse Start and
224	Hard-to-Reach Businesses	Exterior Lighting BiLevel Control w Override, 150 to 1000	220		10	MI TRM 2019 (Excel database)		Two Level HID Lighting Control		MI TRM 2019 (Excel database)		Pulse start metal halic
225	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing ER	221	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
226	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing HP	222	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
227	Hard-to-Reach Businesses	Heat Pump Tune-ups	223		3	IL TRM v8, 4.4.1		Heat Pump Tune-ups		IL TRM v8, 4.4.1		Existing Heat Pump
228	Hard-to-Reach Businesses	Interior Daylighting Controls Replacing No Controls	224	338	8	IL TRM v6 vol2	402	Photocell Occupancy Se	587	Program Tracking Database (w		No Control
229	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 50-70W Lamp	225	337-338 (por	7	IL TRM v6 vol2 (calculated value b	372-374	LED (watts)	10.7	Program Tracking Data		Incandescent (watts)
230	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 71-110W Lamp	226	338	7	IL TRM v6 vol2	363	LED (watts)	14.8	Program Tracking Data		Incandescent (watts)
231	Hard-to-Reach Businesses	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	227	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 1X4 Retrofit Kits	30	Program Tracking Data		1x4 T8, T5, or T5HO Fl
232	Hard-to-Reach Businesses	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	228	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 1X4 Troffer or Linea	42	Program Tracking Data		1X4 Troffer or Linear A
233	Hard-to-Reach Businesses	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	229	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X2 Retrofit Kits	30	Program Tracking Data		2x2 T8, T5 or T5HO Flu
234	Hard-to-Reach Businesses	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	230	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X2 Troffer or Linea	32	Program Tracking Data		2X2 Troffer or Linear A
235	Hard-to-Reach Businesses	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	231	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X4 Retrofit Kits	35	Program Tracking Data		2x4 T8, T5, or T5HO Fl
236	Hard-to-Reach Businesses	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	232	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	LED 2X4 Troffer or Linea	46	Program Tracking Data		2X4 Troffer or Linear A
237	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 101-155V	233	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retro	23	Program Tracking Data		Incandescent, HID and
238	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 45-60W F	234	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retro	11	Program Tracking Data		Incandescent and Hal
239	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 61-100W	235	171-172 (por	13	IL TRM v6 vol2 (calculated value b	372-374	LED Downlight or Retro	18	Program Tracking Data		Incandescent and Hal
240	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lar	236	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	2-ft LED Linear Replacer	10	Program Tracking Data		17W 2-ft T8 with Elect
241	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lar	237	171-172 (por	12	IL TRM v6 vol2 (calculated value b	372-374	4-ft LED Linear Replacer	15	Program Tracking Data		32W 4-ft T8 with Elect
242	Hard-to-Reach Businesses	Interior Lighting - Embedded Fixture Controls	238		8	IL TRM v8,4.5.10 Lighting Controls		Integrated Occupancy Sensor:	Integrated Occupancy for LED Interior			Lighting System Uncor
243	Hard-to-Reach Businesses	Interior Occupancy or Vacancy Sensor Replacing No Con	239	337-338 (por	8	IL TRM v6 vol2	402	Wall-Mount Occupancy	185	Program Tracking Database (w		No Control
244	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 40-60W Lar	240	337-338 (por	6	IL TRM v6 vol2 (calculated value b	372-374	LED (watts)	8	Program Tracking Data		EISA tier 1 compliant

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	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF
3	*Measure Description*							*Efficiency Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Annual Operating Hours Source Page Number**	**Measure Life (Years)**	**Measure Life (Years) Source**	**Measure Life (Years) Source Page Number**	**Measure Definition**	**Measure Efficiency Value**	**Measure Efficiency Value Source**	**Measure Efficiency Value Source Page Number**	**Baseline Definition**
245	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 61-100W La	241	337-338 (por	6	IL TRM v6 vol2 (calculated value b	372-374	LED (watts)	11	Program Tracking Data		EISA tier 1 compliant l
246	Hard-to-Reach Businesses	Kitchen Demand Controlled Ventilation	242		10	IL TRM v6 vol2	72					
247	Hard-to-Reach Businesses	LED Exit Sign	243	(portfolio we	5	IL TRM v6 vol2	376	LED (watts)	3	Program Tracking Data		Fluorescent (watts)
248	Hard-to-Reach Businesses	LED Flood Light (<15W)	244	338	10	IL TRM v6 vol2	363	LED (watts)	8.7	Program Tracking Data		Metal Halide (watts)
249	Hard-to-Reach Businesses	LED Flood Light (>=15W)	245	338	10	IL TRM v6 vol2	363	LED (watts)	16.2	Program Tracking Data		Metal Halide (watts)
250	Hard-to-Reach Businesses	LED High Bay fixture replacing > 750W fixture	246	337-338 (por	11	IL TRM v6 vol2 (calculated value b	370-372	LED High Bay (watts)	244.6	Program Tracking Data		Pulse Start Metal Hali
251	Hard-to-Reach Businesses	LED High Bay Fixture replacing 451W - 750W fixture	247	337-338 (por	11	IL TRM v6 vol2 (calculated value b	370-372	LED High Bay (watts)	183.1	Program Tracking Data		Pulse Start Metal Hali
252	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	248	337-338 (por	11	IL TRM v6 vol2	373374	LED High Bay (watts)	350	Program Tracking Data		Pulse Start Metal Hali
253	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	249	337-338 (por	11	IL TRM v6 vol2	373374	LED High Bay (watts)	95	Program Tracking Data		Pulse Start Metal Hali
254	Hard-to-Reach Businesses	LED Low Bay Fixture replacing 150W-300W fixture	250	337-338 (por	11	IL TRM v6 vol2 (calculated value b	372-374	LED Low Bay (watts)	116.5	Program Tracking Data		Pulse Start Metal Hali
255	Hard-to-Reach Businesses	LED low bay mogul screw-base lamp/retrofit kit replacin	251	337-338 (por	11	IL TRM v6 vol2 (calculated value b	373374	LED Low Bay (watts)	50.7	Program Tracking Data		Pulse Start Metal Hali
256	Hard-to-Reach Businesses	LED Low/High Bay Fixture replacing 301W-450W fixture	252	337-338 (por	11	IL TRM v6 vol2 (calculated value b	372-374	LED High/Low Bay (watt	174.5	Program Tracking Data		Pulse Start Metal Hali
257	Hard-to-Reach Businesses	LED low/high bay mogul screw-base lamp/retrofit kit rep	253	337-338 (por	11	IL TRM v6 vol2 (calculated value b	373374	LED High/Low Bay (watt	73.2	Program Tracking Data		Pulse Start Metal Hali
258	Hard-to-Reach Businesses	LED Open Sign	254	(portfolio we	15	IL TRM v6 vol2	376	LED (watts)	3	Program Tracking Data		Fluorescent (watts)
259	Hard-to-Reach Businesses	LED Refrigerator Case Light	255	341	10	IL TRM v6 vol2 (calculated value b	372-374	LED Refrigerated (Medi	20.8	Program Tracking Data		Linear Fluorescent T8
260	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Bathroom	256		10	IL TRM v6 vol2	90	Energy Efficient Faucet Aerator rated		IL TRM v6 vol2	90	Standard Faucet Aera
261	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Kitchen	257		10	IL TRM v6 vol2	90	Energy Efficient Faucet Aerator rated		IL TRM v6 vol2	90	Standard Faucet Aera
262	Hard-to-Reach Businesses	Low Flow Showerhead	258		10	IL TRM v6 vol2	98	Energy efficient showerhead rated at		IL TRM v6 vol2	98	Standard showerhead
263	Hard-to-Reach Businesses	Networked Lighting Controls	259		16	IL TRM v9 vol2	540	Control system that me	7665	Average watts controlled per s		LED lighting system w
264	Hard-to-Reach Businesses	Open Display Case_Low Temperature	260		15	FOE TRM	77	DOE 2017 Energy Compliant cases		FOE TRM		Freezer open multi-de
265	Hard-to-Reach Businesses	Packaged RTU Sealing	261		5	IL TRM v4.4.43 Packaged RTU Sealing		Install Economizer Hood, Curb And N		IL TRM v4.4.43 Packaged RTU		packaged HVAC syste
266	Hard-to-Reach Businesses	Packaged Terminal Air Conditioner	262		8	IL TRM v6 vol2	184	EER	12	Program Tracking Data		EER
267	Hard-to-Reach Businesses	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175'	263	337	6	IL TRM v6 vol2 (calculated value b	415-416	4-ft 2L to 3L 4' T5, T5HO	84	Program Tracking Data		125W - 175W HID Fixt
268	Hard-to-Reach Businesses	Parking Garage LED Linear Tube Light Bulb	264	337	6	IL TRM v6 vol2 (calculated value b	415-416	4-ft 2L to 3L 4' T5, T5HO	84	Program Tracking Data		125W - 175W HID Fixt
269	Hard-to-Reach Businesses	Parking Garage LED replacing 101W-175W Fixture or Mo	265	337	6	IL TRM v6 vol2 (calculated value b	372-374	LED Parking Garage Ligh	56.4	Program Tracking Data		125W - 175W HID Fixt
270	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Large	266		5	IL TRM v5 vol2	62	Low Flow (GPM)	1.06	IL TRM v5 vol2	64	Standard (GPM)
271	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Medium	267		5	IL TRM v5 vol2	62	Low Flow (GPM)	1.06	IL TRM v5 vol2	64	Standard (GPM)
272	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Small	268		5	IL TRM v6 vol2	60	Low Flow (GPM)	1.06	IL TRM v6 vol2	62	Standard (GPM)
273	Hard-to-Reach Businesses	Remove 4ft Lamp from T8 or T12 system	269	338	11	IL TRM v6 vol2	346	Remove T8		Measure Definition		T8 4 ft (watts)
274	Hard-to-Reach Businesses	Remove 8ft Lamp from T8 or T12 System	270	338	11	IL TRM v6 vol2	346	Remove T8		IL TRM v5 vol3	349	T8 8 ft (watts)
275	Hard-to-Reach Businesses	Strip Curtains Cooler	271		4	IL TRM v6 vol2	450	Strip curtain at least 0.06 inches thick		IL TRM v6 vol2	450	No strip curtain
276	Hard-to-Reach Businesses	Strip Curtains Freezer	272		4	IL TRM v6 vol2	450	Strip curtain at least 0.06 inches thick		IL TRM v6 vol2	450	No strip curtain
277	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	273		15	IL TRM v9 vol2	306	VFD applied to HVAC fan motor that h		IL TRM v9 vol2	306	Motor installed witho
278	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	274		15	IL TRM v9 vol2	306	VFD applied to HVAC fan motor that h		IL TRM v9 vol2	306	Motor installed witho
279	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	275		15	IL TRM v9 vol2	306	VFD applied to HVAC fan motor that h		IL TRM v9 vol2	306	Motor installed witho
280	Hard-to-Reach Businesses	VSD Pumps/Fan (Cooling Tower Fan)	276		15	IL TRM v9 vol2	280	VSD applied to a motor without a VSI		IL TRM v9 vol2	280	Motor without a VSD
281	Hard-to-Reach Businesses	Water Heater Pipe Insulation	277	172	15	IL TRM v7 vol3	171	5 linear feet of insulation				none
282	Hard-to-Reach Businesses	Water Heater Tank Wrap	278	204	7	IL TRM v7 vol3	203	Water heater insulation increased fro		IL TRM v7 vol3	204	R12, 50-gal water hea
283	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	279		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.56	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
284	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	280		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.53	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
285	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	281		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.52	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
286	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	282		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.45	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
287	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	283		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.47	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
288	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	284		23	IL TRM v9 vol2	199	IPLVee (kW/ton)	0.56	SCEG 2020 Minimum Eff Requ		IPLVbase (kW/ton)
289	Hard-to-Reach Businesses	Window Film (Converted Residences)	285		10	AR TRM v8.1	357	SHGC <=0.5		AR TRM v8.1	357	no existing solar firn
290	Hard-to-Reach Businesses	Window Film (Small Commercial)	286		10	AR TRM v8.1	359	SHGC <=0.5		AR TRM v8.1	359	no existing solar firn
291	Hard-to-Reach Homes	Air Sealing - 30% MF AC	287	122	20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM
292	Hard-to-Reach Homes	Air Sealing - 30% SF AC	288	122	20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM

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3	*Measure Description*							*Efficiency Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Annual Operating Hours Source Page Number**	**Measure Life (Years)**	**Measure Life (Years) Source**	**Measure Life (Years) Source Page Number**	**Measure Definition**	**Measure Efficiency Value**	**Measure Efficiency Value Source**	**Measure Efficiency Value Source Page Number**	**Baseline Definition**
293	Hard-to-Reach Homes	Air Sealing - 30% MF AC/ER	289		20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM
294	Hard-to-Reach Homes	Air Sealing - 30% MF ASHP	290		20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM
295	Hard-to-Reach Homes	Air Sealing - 30% SF AC/ER	291		20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM
296	Hard-to-Reach Homes	Air Sealing - 30% SF ASHP	292		20	MO TRM 2017	295	Efficient CFM	3139.44	Calculated Value from Trackin		Baseline CFM
297	Hard-to-Reach Homes	ASHP SEER 15	293	85	16	IL TRM v9 vol3	73	SEERee	16.04	per PY2018 Metadata WHE		SEERbase
298	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement	294	85	6	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERexist
299	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement (Future)	295	85	10	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERbase
300	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat	296	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
301	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	297	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
302	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	298	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
303	Hard-to-Reach Homes	ASHP SEER 16	299	85	16	IL TRM v9 vol3	73	SEERee	16.04	per PY2018 Metadata WHE		SEERbase
304	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement	300	85	6	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERexist
305	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement (Future)	301	85	10	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERbase
306	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	302	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
307	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	303	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
308	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	304	85	6	IL TRM v9 vol3	73	SEERee	16	Measure Definition		SEERexist
309	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	305	85	10	IL TRM v9 vol3	73	SEERee	16	Measure Definition		SEERbase
310	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC: MF	306	85	16	IL TRM v9 vol3	73	SEERee	16	Measure Definition		SEERbase
311	Hard-to-Reach Homes	ASHP SEER 16 - Replace Electric Resistance Heat	307	85	16	IL TRM v9 vol3	73	SEERee	16.11	per PY2018 Metadata WHE		SEERbase
312	Hard-to-Reach Homes	ASHP SEER 17	308	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
313	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement	309	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
314	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement (Future)	310	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
315	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF	311	85	6	IL TRM v9 vol3	73	SEERee	17	Measure Definition		SEERexist
316	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF (F	312	85	10	IL TRM v9 vol3	73	SEERee	17	Measure Definition		SEERexist
317	Hard-to-Reach Homes	ASHP SEER 17 - replace electric furnace / CAC: MF	313	85	16	IL TRM v9 vol3	73	SEERee	17	Measure Definition		SEERbase
318	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat	314	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
319	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	315	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
320	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	316	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
321	Hard-to-Reach Homes	ASHP SEER 18	317	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
322	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement	318	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
323	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	319	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
324	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF	320	85	6	IL TRM v9 vol3	73	SEERee	18	Measure Definition		SEERexist
325	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF (F	321	85	10	IL TRM v9 vol3	73	SEERee	18	Measure Definition		SEERexist
326	Hard-to-Reach Homes	ASHP SEER 18 - replace electric furnace / CAC: MF	322	85	16	IL TRM v9 vol3	73	SEERee	18	Measure Definition		SEERbase
327	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat	323	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
328	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	324	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
329	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	325	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
330	Hard-to-Reach Homes	ASHP SEER 21	326	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
331	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement	327	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
332	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement (Future)	328	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
333	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat	329	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
334	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	330	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
335	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	331	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
336	Hard-to-Reach Homes	Bathroom Exhaust Fan (Int.)	332	140	19	IL TRM v9 vol3	139	ENERGY STAR Most Effi	12.9	IL TRM v9 vol3	140	Standard Fan, standar
337	Hard-to-Reach Homes	CAC SEER 15	333	122	18	IL TRM v9 vol3	91	SEERee	16.5	Average SEER value of equipm		SEERbase
338	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement	334	122	6	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERexist
339	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement (Future)	335	122	12	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERbase
340	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF	336	122	6	IL TRM v9 vol3	91	SEER	15	As Installed		SEERexist

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3	*Measure Description*							*Efficiency Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Annual Operating Hours Source Page Number**	**Measure Life (Years)**	**Measure Life (Years) Source**	**Measure Life (Years) Source Page Number**	**Measure Definition**	**Measure Efficiency Value**	**Measure Efficiency Value Source**	**Measure Efficiency Value Source Page Number**	**Baseline Definition**
341	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF (Future)	337	122	12	IL TRM v9 vol3	91	SEER	15	As Installed		SEERbase
342	Hard-to-Reach Homes	CAC SEER 15 - Replace at Fail: MF	338	122	18	IL TRM v9 vol3	91	SEER	15	As Installed		SEERbase
343	Hard-to-Reach Homes	CAC SEER 16	339	122	18	IL TRM v9 vol3	91	SEERee	16.5	Average SEER value of equipm		SEERbase
344	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement	340	122	6	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERexist
345	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement (Future)	341	122	12	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERbase
346	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF	342	122	6	IL TRM v9 vol3	91	SEER	16	As Installed		SEERexist
347	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF (Future)	343	122	12	IL TRM v9 vol3	91	SEER	16	As Installed		SEERbase
348	Hard-to-Reach Homes	CAC SEER 16 - Replace at Fail: MF	344	122	18	IL TRM v9 vol3	91	SEER	16	As Installed		SEERbase
349	Hard-to-Reach Homes	CAC SEER 17	345	122	18	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
350	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement	346	122	6	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERexist
351	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement (Future)	347	122	12	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
352	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement	348	122	6	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
353	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement (Future)	349	122	12	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERexist
354	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF	350	122	6	IL TRM v9 vol3	91	SEER	17	As Installed		SEERexist
355	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF (Future)	351	122	12	IL TRM v9 vol3	91	SEER	17	As Installed		SEERbase
356	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail	352	122	18	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
357	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail: MF	353	122	18	IL TRM v9 vol3	91	SEER	17	As Installed		SEERbase
358	Hard-to-Reach Homes	ENERGY STAR Bathroom Exhaust Fan (Int.)	354	140	19	IL TRM v9 vol3	139	ENERGY STAR Most Effi	12.9	IL TRM v9 vol3	140	Standard Fan, standar
359	Hard-to-Reach Homes	ENERGY STAR Clothes Dryers	355	49	16		0 48	CEF	3.93	IL TRM v9 vol3	48	CEF
360	Hard-to-Reach Homes	ENERGY STAR Clothes Washers	356	13	14	IL TRM v9 vol3	9	Efficient residential was	2.23	IL TRM v9 vol3	10	Standard residential w
361	Hard-to-Reach Homes	ENERGY STAR Clothes Washers_CEE Tier 2	357	13	14	IL TRM v9 vol3	9	Efficient residential was	2.23	IL TRM v9 vol3	10	Standard residential w
362	Hard-to-Reach Homes	ENERGY STAR Freezers	358	27	22	IL TRM v9 vol3	26	A freezer meeting the e		IL TRM v9 vol3	26	A freezer meeting the
363	Hard-to-Reach Homes	ENERGY STAR Refrigerators	359	32	17	IL TRM v9 vol3	30	A refrigerator meeting t		IL TRM v9 vol3	30	A refrigerator meeting
364	Hard-to-Reach Homes	Energy Star Vented Electric, Compact (240V) (< 4.4 ft3)	360		16	MO TRM 2017	12	CEFeff	3.45	MO TRM 2017	13	CEFbase
365	Hard-to-Reach Homes	Energy Star Vented or Ventless Electric, Compact (120V)	361		16	MO TRM 2017	12	CEFeff	3.8	MO TRM 2017	13	CEFbase
366	Hard-to-Reach Homes	Energy Star Ventless Electric, Compact (240V) (< 4.4 ft3)	362		16	MO TRM 2017	12	CEFeff	2.68	MO TRM 2017	13	CEFbase
367	Hard-to-Reach Homes	Exterior Lighting - Photosensor Control	363		15	MI TRM 2019 Photo Cell Daylight Sensor		Photo Cell Daylight Sensor		MI TRM 2019 Photo Cell Dayli		No Photo Cell
368	Hard-to-Reach Homes	GSHP - EER 23_Replace Electric Furnace at Fail / Time of	364	85	25	IL TRM v9 vol3	127	Part Load EER Efficiency	15.354	IL TRM v7 vol3	111	GSHP replacing Failed
369	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 23	365	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
370	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 30	366	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
371	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	367	204	15	IL TRM v9 vol3	200	ENERGY STAR Heat Pum	2	Assumed UEF is 2 based on ce		Resistance storage un
372	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	368	204	15	IL TRM v9 vol3	200	ENERGY STAR Heat Pum	4	Assumed UEF is 4 based on ce		Resistance storage un
373	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: ASHP	369		3	IL TRM v7 vol3	127	Coil cleaning of package		IL TRM v7 vol3	127	The baseline condition
374	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: CAC	370		3	IL TRM v7 vol3	127	Coil cleaning of package		IL TRM v7 vol3	127	The baseline condition
375	Hard-to-Reach Homes	Income-Eligible Multi-Family Custom Measure	371		14							
376	Hard-to-Reach Homes	Increased Ceiling Insulation	372	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
377	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_MF	373	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
378	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_SF	374	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
379	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_MF	375	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
380	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_SF	376	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
381	Hard-to-Reach Homes	Increased Ceiling Insulation_HP_MF	377	122	20	IL TRM v9 vol3	342	Final R-value	41.0316456	Program Tracking Data		Previous R-value
382	Hard-to-Reach Homes	LED Exit Sign_MF	378	509	5	IL TRM v9 vol2	509	LED (watts)	2	IL TRM v9 vol2	509	Fluorescent (watts)
383	Hard-to-Reach Homes	LED Flood Light (<15W) (Exterior)	379	284	15	IL TRM v9 vol3	282	ENERGY STAR LED Fixture				Non-ENERGY STAR Fix
384	Hard-to-Reach Homes	LED Nightlights	380	294	8	IL TRM v9 vol3	294	LED nightlight				Incandescent/halogen
385	Hard-to-Reach Homes	Linear Lighting (MF Common area)	381	255	15	IL TRM v9 vol3	282	LED 2X4 Retrofit Kits	22.4	IL TRM v9 vol3	283	2x4 T8, T12 or T5 Fluo
386	Hard-to-Reach Homes	Low Flow Faucet Aerator-Bathroom	382	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1	Program Tracking Data		Standard (GPM)
387	Hard-to-Reach Homes	Low Flow Faucet Aerator-Kitchen	383	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
388	Hard-to-Reach Homes	Low Flow Showerhead	384	221	10	IL TRM v9 vol3	217	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)

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389	Hard-to-Reach Homes	Room AC Units	385		12	IL TRM v9 vol3	35	Room AC unit that meet		IL TRM v9 vol3	33	Non-ENERGY STAR ro
390	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Exterior)	386	509	6	IL TRM v9 vol2	493	LED (watts)	9	Program Tracking Data		EISA tier 1 compliant l
391	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Interior)	387	271	10	IL TRM v9 vol2	493	LED (watts)	9	Program Tracking Data		EISA tier 1 compliant l
392	Hard-to-Reach Homes	Screw In - LEDs (In-Unit)	388	275	10	IL TRM v9 vol3	272	Screw In - LEDs	9.5	Program Tracking Data		43 watts based on hal
393	Hard-to-Reach Homes	Screw In - Specialty LEDs	389		10	IL TRM v9 vol3	254	Screw In - Specialty LED	7.6	Program Tracking Data		54 watts weighted to
394	Hard-to-Reach Homes	Screw In - Specialty LEDs (Exterior)	390	260	6	IL TRM v9 vol3	254	LED (watts)	14	ADM Estimate		Incandescent/Halogen
395	Whole Home Efficiency	Air Sealing - 30% MF AC	391	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
396	Whole Home Efficiency	Air Sealing - 30% SF AC	392	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
397	Whole Home Efficiency	Air Sealing - 30% MF AC/ER	393	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
398	Whole Home Efficiency	Air Sealing - 30% MF ASHP	394	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
399	Whole Home Efficiency	Air Sealing - 30% SF AC/ER	395	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
400	Whole Home Efficiency	Air Sealing - 30% SF ASHP	396	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
401	Whole Home Efficiency	Air Sealing - 50% MF AC	397	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
402	Whole Home Efficiency	Air Sealing - 50% SF AC	398	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
403	Whole Home Efficiency	Air Sealing - 50% MF AC/ER	399	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
404	Whole Home Efficiency	Air Sealing - 50% MF ASHP	400	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
405	Whole Home Efficiency	Air Sealing - 50% SF AC/ER	401	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
406	Whole Home Efficiency	Air Sealing - 50% SF ASHP	402	122	20	IL TRM v9 vol3	304	Efficient CFM	3014	Program Tracking Data		Baseline CFM
407	Whole Home Efficiency	ASHP SEER 16	403	85	16	IL TRM v9 vol3	73	SEERee	16.04	per PY2018 Metadata WHE		SEERbase
408	Whole Home Efficiency	ASHP SEER 16 - Early Replacement	404	85	6	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERexist
409	Whole Home Efficiency	ASHP SEER 16 - Early Replacement (Future)	405	85	10	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERbase
410	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	406	85	6	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERexist
411	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	407	85	10	IL TRM v9 vol3	73	SEERee	16.08	per PY2018 Metadata WHE		SEERbase
412	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	408	85	6	IL TRM v9 vol3	73	SEERee	16	Measure Definition		SEERexist
413	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	409	85	10	IL TRM v9 vol3	73	SEERee	16	Measure Definition		SEERbase
414	Whole Home Efficiency	ASHP SEER 16 - Replace Electric Resistance Heat	410	85	16	IL TRM v9 vol3	73	SEERee	16.11	per PY2018 Metadata WHE		SEERbase
415	Whole Home Efficiency	ASHP SEER 17	411	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
416	Whole Home Efficiency	ASHP SEER 17 - Early Replacement	412	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
417	Whole Home Efficiency	ASHP SEER 17 - Early Replacement (Future)	413	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
418	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat	414	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
419	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	415	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
420	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	416	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
421	Whole Home Efficiency	ASHP SEER 18	417	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
422	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement	418	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
423	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	419	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
424	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat	420	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
425	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	421	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
426	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	422	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
427	Whole Home Efficiency	ASHP SEER 21	423	85	16	IL TRM v9 vol3	73	SEERee	17.25	per PY2018 Metadata WHE		SEERbase
428	Whole Home Efficiency	ASHP SEER 21 - Early Replacement	424	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
429	Whole Home Efficiency	ASHP SEER 21 - Early Replacement (Future)	425	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
430	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat	426	85	16	IL TRM v9 vol3	73	SEERee	18.27	per PY2018 Metadata WHE		SEERbase
431	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	427	85	6	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERexist
432	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	428	85	10	IL TRM v9 vol3	73	SEERee	18.34	per PY2018 Metadata WHE		SEERbase
433	Whole Home Efficiency	CAC SEER 16	429	122	18	IL TRM v9 vol3	91	SEERee	16.5	Average SEER value of equipm		SEERbase
434	Whole Home Efficiency	CAC SEER 16 - Early Replacement	430	122	6	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERexist
435	Whole Home Efficiency	CAC SEER 16 - Early Replacement (Future)	431	122	12	IL TRM v9 vol3	91	SEERee	16.53	Average SEER value of equipm		SEERbase
436	Whole Home Efficiency	CAC SEER 17	432	122	18	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase

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437	Whole Home Efficiency	CAC SEER 17 - Early Replacement	433	122	6	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERexist
438	Whole Home Efficiency	CAC SEER 17 - Early Replacement (Future)	434	122	12	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
439	Whole Home Efficiency	CAC SEER 17+ - Early Replacement	435	122	6	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
440	Whole Home Efficiency	CAC SEER 17+ - Early Replacement (Future)	436	122	12	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERexist
441	Whole Home Efficiency	CAC SEER 17+ - Replace at Fail	437	122	18	IL TRM v9 vol3	91	SEERee	17	Average SEER value of equipm		SEERbase
442	Whole Home Efficiency	Dehumidifier Recycling	438		5	MO TRM vol 3-3.1.6		Dehumidifier - Decommissioning and		MO TRM vol 3-3.1.6		Inefficient Dehumidif
443	Whole Home Efficiency	Dehumidifiers	439	18	12	IL TRM v9 vol3	16	Dehumidifier that meet				Non-ENERGY STAR de
444	Whole Home Efficiency	Dehumidifiers_ENERGY STAR Most Efficient	440	18	12	IL TRM v9 vol3	16	Dehumidifier that meet				Non-ENERGY STAR de
445	Whole Home Efficiency	Duct Repair and Sealing	441		20	IL TRM v6 vol3	77	Duct sealing using mastic sealant or metal tape				Unsealed/leaking duct
446	Whole Home Efficiency	Duct Repair and Sealing_MF	442		20	IL TRM v6 vol3	77	Duct sealing using mastic sealant or metal tape				Unsealed/leaking duct
447	Whole Home Efficiency	ENERGY STAR Freezers	443	27	22	IL TRM v9 vol3	26	A freezer meeting the e		IL TRM v9 vol3	26	A freezer meeting the
448	Whole Home Efficiency	ENERGY STAR Pool Pump and motor w/ auto controls - n	444		7	IL TRM v9 vol3	364	Two speed pool pump				Single speed residenti
449	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 201+	445	8	9	IL TRM v9 vol3	6	Air purifier that meets E				Non-ENERGY STAR air
450	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 51-200	446	8	9	IL TRM v9 vol3	6	Air purifier that meets E				Non-ENERGY STAR air
451	Whole Home Efficiency	ENERGY STAR VFDs on Residential Swimming Pool Pump	447		7	IL TRM v9 vol3	364	Variable speed pool pump				Single speed residenti
452	Whole Home Efficiency	Exterior Lighting - Photosensor Control	448		15	MI TRM 2019 Photo Cell Daylight Sensor		Photo Cell Daylight Sensor		MI TRM 2019 Photo Cell Dayli		No Photo Cell
453	Whole Home Efficiency	Freezer Recycling	449	42	8	IL TRM v9 vol3	39	Freezer Recycling				Existing inefficient op
454	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 23	450	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
455	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 30	451	85	15	IL TRM v9 vol3	153	SEER	22.94	per PY2018 Metadata		SEER
456	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	452	204	15	IL TRM v9 vol3	200	ENERGY STAR Heat Pum	2	Assumed UEF is 2 based on ce		Resistance storage un
457	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	453	204	15	IL TRM v9 vol3	200	ENERGY STAR Heat Pum	4	Assumed UEF is 4 based on ce		Resistance storage un
458	Whole Home Efficiency	High Efficiency Sound Bars	454		7	Wisconsin Focus on Energy 2019 TRM		Energy Star Sound Bar	25	Wisconsin Focus on Energy 2020	ENERGY STAR 20	Certified soundbar units
459	Whole Home Efficiency	High Efficiency Water Cooler_Cold Water Only	455		10	IL TRM v8-5.1.11		Energy Star 2.0 Water Cooler		IL TRM v8-5.1.11		Conventional Water C
460	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-On D	456		10	IL TRM v8-5.1.11		Energy Star 2.0 Water Cooler		IL TRM v8-5.1.11		Conventional Water C
461	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-Stora	457		10	IL TRM v8-5.1.11		Energy Star 2.0 Water Cooler		IL TRM v8-5.1.11		Conventional Water C
462	Whole Home Efficiency	HVAC Maintenance and Tune-up_SF: CAC	458		3	IL TRM v7 vol3	127	Coil cleaning of package		IL TRM v7 vol3	127	The baseline condition
463	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC/ER_SF	459		20	IL TRM v8 -5.6.6		R-13		IL TRM v8 -5.6.6		Little or no insulation
464	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC_SF	460		20	IL TRM v8 -5.6.6		R-13		IL TRM v8 -5.6.6		Little or no insulation
465	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_HP_SF	461		20	IL TRM v8 -5.6.6		R-13		IL TRM v8 -5.6.6		Little or no insulation
466	Whole Home Efficiency	LED Exit Sign_MF	462	509	5	IL TRM v9 vol2	509	LED (watts)	2	IL TRM v9 vol2	509	Fluorescent (watts)
467	Whole Home Efficiency	LED Flood Light (<15W) (Exterior)	463	284	15	IL TRM v9 vol3	282	ENERGY STAR LED Fixture				Non-ENERGY STAR Fix
468	Whole Home Efficiency	LED Nightlights	464	294	8	IL TRM v9 vol3	294	LED nightlight				Incandescent/halogen
469	Whole Home Efficiency	Linear Lighting (MF Common area)	465	255	15	IL TRM v9 vol3	282	LED 2X4 Retrofit Kits	22.4	IL TRM v9 vol3	283	2x4 T8, T12 or T5 Fluo
470	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	466	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1	Program Tracking Data		Standard (GPM)
471	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	467	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
472	Whole Home Efficiency	Low Flow Showerhead	468	221	10	IL TRM v9 vol3	217	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
473	Whole Home Efficiency	Low-E storm Windows_AC/ER_MF	469		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
474	Whole Home Efficiency	Low-E storm Windows_AC/ER_SF	470		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
475	Whole Home Efficiency	Low-E storm Windows_AC_MF	471		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
476	Whole Home Efficiency	Low-E storm Windows_AC_SF	472		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
477	Whole Home Efficiency	Low-E storm Windows_HP_MF	473		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
478	Whole Home Efficiency	Low-E storm Windows_HP_SF	474		20	MO TRM 2017 3.7.6 Storm Windows		Emissivity<=0.22		MO TRM 2017 3.7.6 Storm Wi		Single-pane Window
479	Whole Home Efficiency	Ozone Laundry	475		8	IL TRM v8-5.1.12		ENERGY STAR Single-Un	IL TRM v8-5.1.12			Federal Standard Clot
480	Whole Home Efficiency	Pool Pump Timer	476		10	Ameren MO TRM 2018	181					
481	Whole Home Efficiency	Refrigerator Recycling	477	42	8	IL TRM v9 vol3	39	Refrigerator Recycling				Existing inefficient op
482	Whole Home Efficiency	Room Air Conditioner Recycling	478	45	4	IL TRM v9 vol3	44	Room Air Conditioner Recycling				Existing inefficient op
483	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Exterior)	479	509	6	IL TRM v9 vol2	493	LED (watts)	9	Program Tracking Data		EISA tier 1 compliant
484	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Interior)	480	271	10	IL TRM v9 vol2	493	LED (watts)	9	Program Tracking Data		EISA tier 1 compliant

	A	B	C	X	Y	Z	AA	AB	AC	AD	AE	AF
1	**Evergy KEEIA Technical Resource Manual - 2023-01-01**											
2												
3	*Measure Description*							*Efficiency Values*				
4	**Program**	**Measure Name**	**Primary Key**	**Annual Operating Hours Source Page Number**	**Measure Life (Years)**	**Measure Life (Years) Source**	**Measure Life (Years) Source Page Number**	**Measure Definition**	**Measure Efficiency Value**	**Measure Efficiency Value Source**	**Measure Efficiency Value Source Page Number**	**Baseline Definition**
485	Whole Home Efficiency	Screw In - LEDs (In-Unit)	481	275	10	IL TRM v9 vol3	272	Screw In - LEDs	9.5	Program Tracking Data		43 watts based on hal
486	Whole Home Efficiency	Screw In - Specialty LEDs	482		10	IL TRM v9 vol3	254	Screw In - Specialty LED	7.6	Program Tracking Data		54 watts weighted to
487	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	483	260	6	IL TRM v9 vol3	254	LED (watts)	14	ADM Estimate		Incandescent/Halogen
488	Whole Home Efficiency	Shade Tree	484		20	Arbor Day Foundation		Tree	Tree	Measure Definition		No Tree
489	Whole Home Efficiency	Smart Power Strip - Wh7-Plug	485	65	7	IL TRM v9 vol3	63	Smart strip		IL TRM v9 vol3	63	Standard outlet strip
490	Whole Home Efficiency	Variable Speed Pump - MF Hot Water Recirculation	486		15	WI TRM 2018	218					
491	Whole Home Efficiency	Water Heater - Solar System	487		15	Texas TRM v6-2.4.7		Energy Star Solar Water Heater		Texas TRM v6-2.4.7		Existing Water Heater
492	Whole Home Efficiency	Water Heater Tank Wrap_40 gallon	488	229	5	IL TRM v9 vol3	228	Water heater insulation increased fro		Measure Definition		R12, 50-gal water hea
493	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon	489	229	5	IL TRM v9 vol3	228	Water heater insulation increased fro		Measure Definition		R12, 50-gal water hea
494	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon_MF	490	229	5	IL TRM v9 vol3	228	Water heater insulation increased fro		Measure Definition		R12, 50-gal water hea
495	Whole Home Efficiency	Water Heater Tank Wrap_80 gallon	491	229	5	IL TRM v9 vol3	228	Water heater insulation increased fro		Measure Definition		R12, 50-gal water hea
496	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_MF	492		10	AR TRM v8, 2.2.8 Window Film		Single Pane, SHGC <0.50		AR TRM v8, 2.2.8 Window Film		Single-pane Window
497	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_SF	493		10	AR TRM v8, 2.2.8 Window Film		Single Pane, SHGC <0.50		AR TRM v8, 2.2.8 Window Film		Single-pane Window
498	Home Energy Education	Behavioral Measures Tier 1	494		1							
499	Home Energy Education	Behavioral Measures Tier 2	495		1							
500	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	496	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1	Program Tracking Data		Standard (GPM)
501	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	497	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1	Program Tracking Data		Standard (GPM)
502	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	498	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
503	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	499	213	10	IL TRM v9 vol3	207	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
504	Whole Home Efficiency	Low Flow Showerhead	500	221	10	IL TRM v9 vol3	217	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
505	Whole Home Efficiency	Low Flow Showerhead	501	221	10	IL TRM v9 vol3	217	Low Flow (GPM)	1.5	Program Tracking Data		Standard (GPM)
506	Whole Home Efficiency	Screw In - LEDs (In-Unit)	502	275	10	IL TRM v9 vol3	272	Screw In - LEDs	9.5	Program Tracking Data		43 watts based on hal
507	Whole Home Efficiency	Screw In - Specialty LEDs	503		10	IL TRM v9 vol3	254	Screw In - Specialty LED	7.6	Program Tracking Data		54 watts weighted to
508	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	504	260	6	IL TRM v9 vol3	254	LED (watts)	14	ADM Estimate		Incandescent/Halogen

	A	B	C	AG	AH	AI	AJ	AK
1	**Evergy KEEIA Technical Resource Manual - 2023-01-01**							
2								
3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
5	Business Demand Response	DR Auto DR and Manual DLC	1				1/1/2022	
6	Whole Business Efficiency	Advanced Water Heater Controls	2				1/1/2022	
7	Whole Business Efficiency	Air Conditioner Tune-up	3	r System	IL TRM v8, 4.4.1Air Conditioner Tune-Up		1/1/2022	
8	Whole Business Efficiency	Air Curtains (Dryer)	4				1/1/2022	
9	Whole Business Efficiency	Air Curtains (Oven)	5				1/1/2022	
10	Whole Business Efficiency	Air-Cooled Chiller	6	12.5	IL TRM v9 vol2	203	1/1/2022	
11	Whole Business Efficiency	Air-Source Heat Pump =240,000 and <760,000 Btu/h	7	9.3	IL TRM v9 vol2	221	1/1/2022	
12	Whole Business Efficiency	Air-Source Heat Pump =65,000 and <135,000 Btu/h	8	10.8	IL TRM v6 vol2	168	1/1/2022	
13	Whole Business Efficiency	ASHP >240kbtu	9	9.3	IL TRM v9 vol2	221	1/1/2022	
14	Whole Business Efficiency	ASHP 65 - 135kbtu_Replacing ER	10	10.8	IL TRM v6 vol2	168	1/1/2022	
15	Whole Business Efficiency	Automated Temperature Control	11				1/1/2022	
16	Whole Business Efficiency	Automatic door closer for walk-in freezers	12	out an autom	IL TRM v9	571	1/1/2022	
17	Whole Business Efficiency	Automatic door closer for walk-in coolers	13	ut an automa	IL TRM v9	571	1/1/2022	
18	Whole Business Efficiency	Business Custom - Cooking	14				1/1/2022	
19	Whole Business Efficiency	Business Custom - HVAC	15				1/1/2022	
20	Whole Business Efficiency	Business Custom - Lighting	16				1/1/2022	
21	Whole Business Efficiency	Business Custom - Misc	17				1/1/2022	
22	Whole Business Efficiency	Business Custom - New Construction	18				1/1/2022	
23	Whole Business Efficiency	Business Custom - Refrigeration	19				1/1/2022	
24	Whole Business Efficiency	Business Custom - Retrocomisioning	20				1/1/2022	
25	Whole Business Efficiency	CAC >240 kBtuh_CEE Advanced Tier	21	9.9	IL TRM v7 vol2	215	1/1/2022	
26	Whole Business Efficiency	CAC >240 kBtuh_CEE Tier 2	22	9.9	IL TRM v7 vol2	215	1/1/2022	
27	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Air Cooled	23	: operate at a	FOE Cooling System Tune-Up,ID		1/1/2022	
28	Whole Business Efficiency	Chiller Tune-up/Diagnostics_Water Cooled	24	hat operate a	FOE Cooling System Tune-Up,ID		1/1/2022	
29	Whole Business Efficiency	Demand Controlled Ventillation (Electric Heat)	25				1/1/2022	
30	Whole Business Efficiency	Demand Controlled Ventillation (Heat Pump)	26				1/1/2022	
31	Whole Business Efficiency	Demand-Controlled Ventilation	27				1/1/2022	
32	Whole Business Efficiency	Destratification Fans	28				1/1/2022	
33	Whole Business Efficiency	Door heater controls for cooler (Conductivity-based cont	29	with no conti	IL TRM v6 vol2	439	1/1/2022	
34	Whole Business Efficiency	Door heater controls for cooler (Humidity-based control	30	with no conti	IL TRM v6 vol2	439	1/1/2022	
35	Whole Business Efficiency	Door heater controls for freezer (Conductivity-based cor	31	with no conti	IL TRM v6 vol2	439	1/1/2022	
36	Whole Business Efficiency	Door heater controls for freezer (Humidity-based contro	32	with no conti	IL TRM v6 vol2	439	1/1/2022	
37	Whole Business Efficiency	Doors, Covers and Curtains	33				1/1/2022	
38	Whole Business Efficiency	ECM Motors Walk-In Coolers & Freezers	34		IL TRM v5 vol2	448	1/1/2022	
39	Whole Business Efficiency	Efficient Lighting Design	35				1/1/2022	
40	Whole Business Efficiency	Eliminate Air Leaks	36				1/1/2022	
41	Whole Business Efficiency	Energy Monitoring and Process Controls (Sub-metering,	37				1/1/2022	
42	Whole Business Efficiency	ENERGY STAR Beverage Machine w/ software	38	chine	IL TRM v6 vol2	445	1/1/2022	
43	Whole Business Efficiency	ENERGY STAR Beverage Machine w/o software	39	chine	IL TRM v6 vol2	445	1/1/2022	
44	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (0 < V <13)	40	280	Ameren MO TRM	66	1/1/2022	
45	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (13 = V <28)	41	800	Ameren MO TRM	66	1/1/2022	
46	Whole Business Efficiency	ENERGY STAR Hot Holding Cabinet (28 = V)	42	1120	Ameren MO TRM	66	1/1/2022	
47	Whole Business Efficiency	ENERGY STAR Laptop	43	alified laptop	Ameren TRM 2.7.1 Laptop Comp		1/1/2022	
48	Whole Business Efficiency	ENERGY STAR Server_W<1500	44	alified comput	Ameren TRM 2.7.4 Computer Se		1/1/2022	
49	Whole Business Efficiency	ENERGY STAR Server_W=1501-3000	45	alified comput	Ameren TRM 2.7.4 Computer Se		1/1/2022	
50	Whole Business Efficiency	ENERGY STAR Steam Cooker	46	0.9	IL TRM v6 vol2	26	1/1/2022	
51	Whole Business Efficiency	Engineered Nozzles	47				1/1/2022	
52	Whole Business Efficiency	Exterior LED Linear Tube Light Bulb	48	29	IL TRM v6 vol2 (B	356-358	1/1/2022	

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1	**Evergy KEEIA Technical Resource Manual - 2023-01-01**							
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3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
53	Whole Business Efficiency	Exterior LED replacing < 175W Fixture or Mogul Screw-Ba	49	151		370-372 (port	1/1/2022	
54	Whole Business Efficiency	Exterior LED replacing > 400W Fixture or Mogul Screw-Ba	50	1078	Mid Atlantic TRM	307 (1000W H	1/1/2022	
55	Whole Business Efficiency	Exterior LED replacing 175W-250W Fixture or Mogul Scre	51	213		Midpoint Valu	1/1/2022	
56	Whole Business Efficiency	Exterior LED replacing 251W-400W Fixture or Mogul Scre	52	325		Midpoint Valu	1/1/2022	
57	Whole Business Efficiency	Exterior Lighting BiLevel Control w Override, 150 to 1000	53	le exterior ligh	MI TRM 2019 (Excel database)		1/1/2022	
58	Whole Business Efficiency	Floating Head Pressure Controls	54				1/1/2022	
59	Whole Business Efficiency	Free Cooling	55				1/1/2022	
60	Whole Business Efficiency	Ground Source Heat Pump	56	16.2	IL TRM v6 vol2	168	1/1/2022	
61	Whole Business Efficiency	Heat Pump Tune-ups	57		IL TRM v8, 4.4.1		1/1/2022	
62	Whole Business Efficiency	High Efficiency Battery Charger (for Forklifts)	58				1/1/2022	
63	Whole Business Efficiency	High Efficiency Chiller	59				1/1/2022	
64	Whole Business Efficiency	High Efficiency Dry-Type Transformers	60				1/1/2022	
65	Whole Business Efficiency	High Efficiency Light Fixtures	61				1/1/2022	
66	Whole Business Efficiency	High Efficiency Pool Pump	62		IL TRM v6 vol3	296	1/1/2022	
67	Whole Business Efficiency	High Efficiency Rooftop AC	63				1/1/2022	
68	Whole Business Efficiency	Impeller Trimming (Pump)	64				1/1/2022	
69	Whole Business Efficiency	Improve Compressor Components	65				1/1/2022	
70	Whole Business Efficiency	Improve Fan Components	66				1/1/2022	
71	Whole Business Efficiency	Improve Pump Components	67				1/1/2022	
72	Whole Business Efficiency	Insulation (Dryer)	68				1/1/2022	
73	Whole Business Efficiency	Insulation (Furnace)	69				1/1/2022	
74	Whole Business Efficiency	Insulation (Kiln)	70				1/1/2022	
75	Whole Business Efficiency	Insulation (Oven)	71				1/1/2022	
76	Whole Business Efficiency	Integrated Control System	72				1/1/2022	
77	Whole Business Efficiency	Interior Daylighting Controls Replacing No Controls	73		IL TRM v6 vol2	402	1/1/2022	
78	Whole Business Efficiency	Interior Directional LED Lamp replacing 50-70W Lamp	74	60	Measure midpoint Value		1/1/2022	
79	Whole Business Efficiency	Interior Directional LED Lamp replacing 71-110W Lamp	75	90	Measure midpoint Value		1/1/2022	
80	Whole Business Efficiency	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	76	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
81	Whole Business Efficiency	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	77	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
82	Whole Business Efficiency	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	78	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
83	Whole Business Efficiency	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	79	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
84	Whole Business Efficiency	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	80	98.0571496	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
85	Whole Business Efficiency	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	81	98.0571496	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
86	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 101-155W	82	128		Midpoint Valu	1/1/2022	
87	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 45-60W F	83	52		Midpoint Valu	1/1/2022	
88	Whole Business Efficiency	Interior LED Downlight or Retrofit Kit replacing 61-100W	84	80		Midpoint Valu	1/1/2022	
89	Whole Business Efficiency	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lam	85	17	IL TRM v6 vol2	370 (portfolio	1/1/2022	
90	Whole Business Efficiency	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lam	86	29	IL TRM v6 vol2 (B	356-358	1/1/2022	
91	Whole Business Efficiency	Interior Lighting - Embedded Fixture Controls	87	ntrolled by Oc	IL TRM v8,4.5.10	Lighting Contro	1/1/2022	
92	Whole Business Efficiency	Interior Occupancy or Vacancy Sensor Replacing No Con	88		IL TRM v6 vol2	402	1/1/2022	
93	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 40-60W Lar	89	50		Midpoint Valu	1/1/2022	
94	Whole Business Efficiency	Interior Omnidirectional LED Lamp replacing 61-100W La	90	80		Midpoint Valu	1/1/2022	
95	Whole Business Efficiency	Kitchen Demand Controlled Ventilation	91				1/1/2022	
96	Whole Business Efficiency	LED Exit Sign	92	10.5	IL TRM v7 vol2	441 (average	1/1/2022	
97	Whole Business Efficiency	LED Flood Light (<15W)	93	51.7			1/1/2022	
98	Whole Business Efficiency	LED Flood Light (>=15W)	94	64.4			1/1/2022	
99	Whole Business Efficiency	LED High Bay fixture replacing > 750W fixture	95	1078	IL TRM v6 vol2	370-372 (port	1/1/2022	
100	Whole Business Efficiency	LED High Bay Fixture replacing 451W - 750W fixture	96	600		Midpoint Valu	1/1/2022	

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1	**Evergy KEEIA Technical Resource Manual - 2023-01-01**							
2								
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4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
101	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	97	1078	IL TRM v6 vol2	370-372 (port	1/1/2022	
102	Whole Business Efficiency	LED high bay mogul screw-base lamp/retrofit kit replacir	98	600		Midpoint Valu	1/1/2022	
103	Whole Business Efficiency	LED Low Bay Fixture replacing 150W-300W fixture	99	225		Midpoint Valu	1/1/2022	
104	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	100	225		Midpoint Valu	1/1/2022	
105	Whole Business Efficiency	LED low bay mogul screw-base lamp/retrofit kit replacin	101	225		Midpoint Valu	1/1/2022	
106	Whole Business Efficiency	LED Low/High Bay Fixture replacing 301W-450W fixture	102	375		Midpoint Valu	1/1/2022	
107	Whole Business Efficiency	LED low/high bay mogul screw-base lamp/retrofit kit rep	103	375		Midpoint Valu	1/1/2022	
108	Whole Business Efficiency	LED Open Sign	104	10.5	IL TRM v7 vol2	441 (average	1/1/2022	
109	Whole Business Efficiency	Lighting Controls: ON/OFF Timer Settings	105				1/1/2022	
110	Whole Business Efficiency	Low Flow Faucet Aerator Bathroom	106	1.39	IL TRM v7 vol2	94	1/1/2022	
111	Whole Business Efficiency	Low Flow Faucet Aerator Kitchen	107	1.39	IL TRM v5 vol2	94	1/1/2022	
112	Whole Business Efficiency	Low Pressure-Drop Filters	108				1/1/2022	
113	Whole Business Efficiency	Match Compressor Size to Load	109				1/1/2022	
114	Whole Business Efficiency	Match Pump Size to Load	110				1/1/2022	
115	Whole Business Efficiency	Minimize Operating Air Pressure	111				1/1/2022	
116	Whole Business Efficiency	Minimum Cylinder Clearance	112				1/1/2022	
117	Whole Business Efficiency	Networked Lighting Controls	113				1/1/2022	
118	Whole Business Efficiency	Open Display Case_Low Temperature	114	ck style cases	FOE TRM		1/1/2022	
119	Whole Business Efficiency	Optimized Chilled Water Temperature and/or Optimized	115				1/1/2022	
120	Whole Business Efficiency	Optimized Condenser Pressure	116				1/1/2022	
121	Whole Business Efficiency	Optimized Distribution System	117				1/1/2022	
122	Whole Business Efficiency	Optimized Duct Design to Improve Efficiency	118				1/1/2022	
123	Whole Business Efficiency	Packaged Terminal Air Conditioner	119	10.2	IL TRM v6 vol2	186	1/1/2022	
124	Whole Business Efficiency	Parking Garage 4ft 2 Lamp T5/T5HO or T8 replacing 101\	120	150		Midpoint Valu	1/1/2022	
125	Whole Business Efficiency	Parking Garage LED Linear Tube Light Bulb	121	17	IL TRM v6 vol2	370 (portfolio	1/1/2022	
126	Whole Business Efficiency	Parking Garage LED replacing 101W-175W Fixture or Mo	122	137		Midpoint Valu	1/1/2022	
127	Whole Business Efficiency	Premium Efficiency Air Dryer (Compressors)	123				1/1/2022	
128	Whole Business Efficiency	Premium Efficiency Control with VSDs (Fans)	124				1/1/2022	
129	Whole Business Efficiency	Premium Efficiency Control with VSDs (Other motors)	125				1/1/2022	
130	Whole Business Efficiency	Premium Efficiency Control with VSDs (Pumps)	126				1/1/2022	
131	Whole Business Efficiency	Pre-Rinse Spray Valves Large	127	1.9	IL TRM v5 vol2	64	1/1/2022	
132	Whole Business Efficiency	Pre-Rinse Spray Valves Medium	128	1.9	IL TRM v5 vol2	64	1/1/2022	
133	Whole Business Efficiency	Pre-Rinse Spray Valves Small	129	1.9	IL TRM v5 vol2	64	1/1/2022	
134	Whole Business Efficiency	Process Heat Recovery to Preheat Makeup Water	130				1/1/2022	
135	Whole Business Efficiency	Q-Sync Motors for Reach-in Coolers_9-12 Watt	131	notor-low ten	IL TRM v8,4.6.11	Q-Sync Motors	1/1/2022	
136	Whole Business Efficiency	Q-Sync Motors for Reach-in Freezers_9-12 Watt	132	notor -mediur	IL TRM v8,4.6.11	Q-Sync Motors	1/1/2022	
137	Whole Business Efficiency	Q-Sync Motors for Walk-in Coolers_38-50 Wtt	133	notor-low ten	IL TRM v8,4.6.11	Q-Sync Motors	1/1/2022	
138	Whole Business Efficiency	Q-Sync Motors for Walk-in Freezers_38-50 Watt	134	notor -mediur	IL TRM v8,4.6.11	Q-Sync Motors	1/1/2022	
139	Whole Business Efficiency	Reduce or Control Fan Speed	135				1/1/2022	
140	Whole Business Efficiency	Refrigerant Charging Correction_Heavy Duty	136	nt charging	MI TRM 2019_	Weather Sensitiv	1/1/2022	
141	Whole Business Efficiency	Remove 4ft Lamp from T8 or T12 system	137	30.8	IL TRM v7 vol2	406	1/1/2022	
142	Whole Business Efficiency	Remove 8ft Lamp from T8 or T12 System	138	56	IL TRM v7 vol2	406	1/1/2022	
143	Whole Business Efficiency	Replace Compressed Air Use with Mechanical or Electric	139				1/1/2022	
144	Whole Business Efficiency	Smart Defrost Controls	140				1/1/2022	
145	Whole Business Efficiency	Strip Curtains Cooler	141		IL TRM v5 vol2	456	1/1/2022	
146	Whole Business Efficiency	Strip Curtains Freezer	142		IL TRM v5 vol2	456	1/1/2022	
147	Whole Business Efficiency	Synchronous Belts	143				1/1/2022	
148	Whole Business Efficiency	Use Cooler Air from Outside for Make Up Air	144				1/1/2022	

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1	**Evergy KEEIA Technical Resource Manual - 2023-01-01**							
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3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
149	Whole Business Efficiency	Variable Speed Drives	145				1/1/2022	
150	Whole Business Efficiency	Variable Speed Drives for HVAC Supply and Return Fans_	146	ut a VFD or ot	IL TRM v9 vol2	306	1/1/2022	
151	Whole Business Efficiency	Variable Speed ECM Pump, <100 Watts Max Input, Dome	147				1/1/2022	
152	Whole Business Efficiency	Variable Speed ECM Pump, 100 - 500 Watts Max Input, D	148				1/1/2022	
153	Whole Business Efficiency	Volume Pocket Adjustments	149				1/1/2022	
154	Whole Business Efficiency	VSD on Chiller Compressor	150		IL TRM V9 vol2	280	1/1/2022	
155	Whole Business Efficiency	VSD Pumps/Fan (Cooling Tower Fan)	151		IL TRM V9 vol2	280	1/1/2022	
156	Whole Business Efficiency	Warehouse Loading Dock Seals	152				1/1/2022	
157	Whole Business Efficiency	Water Heater Tank Wrap	153	ter insulation	IL TRM v7 vol3	204	1/1/2022	
158	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	154	0.596	IL TRM v9 vol2	203	1/1/2022	
159	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	155	0.549	IL TRM v9 vol2	203	1/1/2022	
160	Whole Business Efficiency	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	156	0.539	IL TRM v9 vol2	203	1/1/2022	
161	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	157	0.54	IL TRM v9 vol2	203	1/1/2022	
162	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	158	0.58	IL TRM v9 vol2	203	1/1/2022	
163	Whole Business Efficiency	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	159	0.615	IL TRM v9 vol2	203	1/1/2022	
164	Whole Business Efficiency	Zero-Loss Condensate Drain	160				1/1/2022	
165	Business Energy Education	Behavioral Measures Tier 1	161				1/1/2022	
166	Business Energy Education	Strategic Energy Management	162				1/1/2022	
167	Home Demand Response	DR Water Heater DLC	163	on non-curtailment event days.			1/1/2022	
168	Home Demand Response	Programmable Thermostat	164	ture control.			1/1/2022	
169	Home Demand Response	Smart Thermostat	165				1/1/2022	
170	Home Demand Response	Smart Thermostat - BYO	166				1/1/2022	
171	Hard-to-Reach Businesses	Advanced Rooftop Unit Controls, 2000-4000 annual hour	167		IL TRM v7 vol2	354	1/1/2022	
172	Hard-to-Reach Businesses	Air Conditioner Tune-up	168	r System	IL TRM v8, 4.4.1	Air Conditioner Tune-Up	1/1/2022	
173	Hard-to-Reach Businesses	Air-Cooled Chiller	169	12.5	IL TRM v9 vol2	203	1/1/2022	
174	Hard-to-Reach Businesses	Air-Source Heat Pump =240,000 and <760,000 Btu/h	170	9.3	IL TRM v9 vol2	221	1/1/2022	
175	Hard-to-Reach Businesses	Air-Source Heat Pump <65,000 Btu/h	171	11.18	IL TRM v6 vol2	Calculated Val	1/1/2022	
176	Hard-to-Reach Businesses	Air-Source Heat Pump =65,000 and <135,000 Btu/h	172	10.8	IL TRM v6 vol2	168	1/1/2022	
177	Hard-to-Reach Businesses	ASHP <65_Replacing ER	173	11.18	IL TRM v6 vol2	Calculated Val	1/1/2022	
178	Hard-to-Reach Businesses	ASHP 135 - 240kbtu_Replacing ER	174	10.4	IL TRM v6 vol2	168	1/1/2022	
179	Hard-to-Reach Businesses	ASHP 65 - 135kbtu_Replacing ER	175	10.8	IL TRM v6 vol2	168	1/1/2022	
180	Hard-to-Reach Businesses	Business Custom - Cooking	176				1/1/2022	
181	Hard-to-Reach Businesses	Business Custom - HVAC	177				1/1/2022	
182	Hard-to-Reach Businesses	Business Custom - Lighting	178				1/1/2022	
183	Hard-to-Reach Businesses	Business Custom - Misc	179				1/1/2022	
184	Hard-to-Reach Businesses	Business Custom - New Construction	180				1/1/2022	
185	Hard-to-Reach Businesses	Business Custom - Refrigeration	181				1/1/2022	
186	Hard-to-Reach Businesses	Business Custom - Retrocomisioning	182				1/1/2022	
187	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Advanced Tier	183	9.9	IL TRM v7 vol2	215	1/1/2022	
188	Hard-to-Reach Businesses	CAC >240 kBtuh_CEE Tier 2	184	9.9	IL TRM v7 vol2	215	1/1/2022	
189	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_Advanced Tier	185	11	IL TRM v7 vol2	215	1/1/2022	
190	Hard-to-Reach Businesses	Central Air Conditioner 135<240 kBtuh_CEE Tier 2	186	11	IL TRM v7 vol2	215	1/1/2022	
191	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Advanced Tie	187	11.2	IL TRM v7 vol2	215	1/1/2022	
192	Hard-to-Reach Businesses	Central Air Conditioner 65<135 kBtuh_CEE Tier 1	188	11.2	IL TRM v7 vol2	215	1/1/2022	
193	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Air Cooled	189	: operate at a	FOE Cooling System Tune-Up,ID		1/1/2022	
194	Hard-to-Reach Businesses	Chiller Tune-up/Diagnostics_Water Cooled	190	:hat operate a	FOE Cooling System Tune-Up,ID		1/1/2022	
195	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/2"	191				1/1/2022	
196	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/4"	192				1/1/2022	

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3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
197	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 1/8"	193				1/1/2022	
198	Hard-to-Reach Businesses	Compressed Air - Engineered Nozzle 5/16"	194				1/1/2022	
199	Hard-to-Reach Businesses	Compressed Air - No Loss Condensate Drain/Valve	195				1/1/2022	
200	Hard-to-Reach Businesses	Demand Controlled Ventillation (Electric Heat)	196				1/1/2022	
201	Hard-to-Reach Businesses	Demand Controlled Ventillation (Heat Pump)	197				1/1/2022	
202	Hard-to-Reach Businesses	Door heater controls for cooler (Conductivity-based cont	198	with no conti	IL TRM v6 vol2	439	1/1/2022	
203	Hard-to-Reach Businesses	Door heater controls for cooler (Humidity-based control	199	with no conti	IL TRM v6 vol2	439	1/1/2022	
204	Hard-to-Reach Businesses	Door heater controls for freezer (Conductivity-based cor	200	with no conti	IL TRM v6 vol2	439	1/1/2022	
205	Hard-to-Reach Businesses	Door heater controls for freezer (Humidity-based contro	201	with no conti	IL TRM v6 vol2	439	1/1/2022	
206	Hard-to-Reach Businesses	Duct Efficiency Improvements	202		AR TRM v8.1	265	1/1/2022	
207	Hard-to-Reach Businesses	Duct Insulation (Converted Residences)	203	ply	AR TRM v8.1	271	1/1/2022	
208	Hard-to-Reach Businesses	Duct Insulation (Small Commercial)	204	ply	AR TRM v8.1	275	1/1/2022	
209	Hard-to-Reach Businesses	ECM Motors Walk-In Coolers & Freezers	205		IL TRM v6 vol2	442	1/1/2022	
210	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/ software	206	chine	IL TRM v6 vol2	445	1/1/2022	
211	Hard-to-Reach Businesses	ENERGY STAR Beverage Machine w/o software	207	chine	IL TRM v6 vol2	445	1/1/2022	
212	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (0 < V <13)	208	280	Ameren MO TRM	66	1/1/2022	
213	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (13 = V <28)	209	800	Ameren MO TRM	66	1/1/2022	
214	Hard-to-Reach Businesses	ENERGY STAR Hot Holding Cabinet (28 = V)	210	1120	Ameren MO TRM	66	1/1/2022	
215	Hard-to-Reach Businesses	ENERGY STAR Laptop	211	alified laptop	Ameren TRM 2.7.1	Laptop Comp	1/1/2022	
216	Hard-to-Reach Businesses	ENERGY STAR Server_W<1500	212	alified comput	Ameren TRM 2.7.4	Computer Se	1/1/2022	
217	Hard-to-Reach Businesses	ENERGY STAR Server_W=1501-3000	213	alified comput	Ameren TRM 2.7.4	Computer Se	1/1/2022	
218	Hard-to-Reach Businesses	ENERGY STAR Steam Cooker	214	0.9	IL TRM v6 vol2	26	1/1/2022	
219	Hard-to-Reach Businesses	Exterior LED Linear Tube Light Bulb	215	29	IL TRM v6 vol2 (B	356-358	1/1/2022	
220	Hard-to-Reach Businesses	Exterior LED replacing < 175W Fixture or Mogul Screw-Ba	216	151	IL TRM v6 vol2	370-372 (port	1/1/2022	
221	Hard-to-Reach Businesses	Exterior LED replacing > 400W Fixture or Mogul Screw-Ba	217	1078	Mid Atlantic TRM	307 (1000W H	1/1/2022	
222	Hard-to-Reach Businesses	Exterior LED replacing 175W-250W Fixture or Mogul Scre	218	213		Midpoint Valu	1/1/2022	
223	Hard-to-Reach Businesses	Exterior LED replacing 251W-400W Fixture or Mogul Scre	219	325		Midpoint Valu	1/1/2022	
224	Hard-to-Reach Businesses	Exterior Lighting BiLevel Control w Override, 150 to 1000	220	e exterior ligh	MI TRM 2019 (Excel database)		1/1/2022	
225	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing ER	221	13	IL TRM v9 vol3	157	1/1/2022	
226	Hard-to-Reach Businesses	Heat Pump Ductless Mini-Split replacing HP	222	13	IL TRM v9 vol3	157	1/1/2022	
227	Hard-to-Reach Businesses	Heat Pump Tune-ups	223		IL TRM v8, 4.4.1		1/1/2022	
228	Hard-to-Reach Businesses	Interior Daylighting Controls Replacing No Controls	224				1/1/2022	
229	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 50-70W Lamp	225	60		Midpoint Valu	1/1/2022	
230	Hard-to-Reach Businesses	Interior Directional LED Lamp replacing 71-110W Lamp	226	90	Measure Midpoint Value		1/1/2022	
231	Hard-to-Reach Businesses	Interior LED 1X4 Retrofit Kit replacing T8, T12 or T5/T5H(	227	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
232	Hard-to-Reach Businesses	Interior LED 1X4 Troffer or Linear Ambient replacing T8,	228	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
233	Hard-to-Reach Businesses	Interior LED 2X2 Retrofit Kit replacing T8, T12 or T5/T5H(	229	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
234	Hard-to-Reach Businesses	Interior LED 2X2 Troffer or Linear Ambient replacing T8,	230	77.32885	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
235	Hard-to-Reach Businesses	Interior LED 2X4 Retrofit Kit replacing T8, T12 or T5/T5H(	231	98.0571496	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
236	Hard-to-Reach Businesses	Interior LED 2X4 Troffer or Linear Ambient replacing T8,	232	98.0571496	IL TRM v6 vol2	370-371,414 (.	1/1/2022	
237	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 101-155V	233	128		Midpoint Valu	1/1/2022	
238	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 45-60W F	234	52		Midpoint Valu	1/1/2022	
239	Hard-to-Reach Businesses	Interior LED Downlight or Retrofit Kit replacing 61-100W	235	80		Midpoint Valu	1/1/2022	
240	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 2ft T8, T12, or T5 Lar	236	17	IL TRM v6 vol2	370-372 (port	1/1/2022	
241	Hard-to-Reach Businesses	Interior LED Linear Lamp Replacing 4ft T8, T12, or T5 Lar	237	29	IL TRM v6 vol2 (B	356-358	1/1/2022	
242	Hard-to-Reach Businesses	Interior Lighting - Embedded Fixture Controls	238	ntrolled by Oc	IL TRM v8,4.5.10	Lighting Contro	1/1/2022	
243	Hard-to-Reach Businesses	Interior Occupancy or Vacancy Sensor Replacing No Cont	239		IL TRM v6 vol2	402	1/1/2022	
244	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 40-60W Lar	240	50		Midpoint Valu	1/1/2022	

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3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
245	Hard-to-Reach Businesses	Interior Omnidirectional LED Lamp replacing 61-100W La	241	80		Midpoint Valu	1/1/2022	
246	Hard-to-Reach Businesses	Kitchen Demand Controlled Ventilation	242				1/1/2022	
247	Hard-to-Reach Businesses	LED Exit Sign	243	7.66666667		IL TRM V.5	1/1/2022	
248	Hard-to-Reach Businesses	LED Flood Light (<15W)	244	51.7			1/1/2022	
249	Hard-to-Reach Businesses	LED Flood Light (>=15W)	245	64.4			1/1/2022	
250	Hard-to-Reach Businesses	LED High Bay fixture replacing > 750W fixture	246	1078	IL TRM v6 vol2	370-372 (port	1/1/2022	
251	Hard-to-Reach Businesses	LED High Bay Fixture replacing 451W - 750W fixture	247	600		Midpoint Valu	1/1/2022	
252	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	248	1078	IL TRM v6 vol2	370-372 (port	1/1/2022	
253	Hard-to-Reach Businesses	LED high bay mogul screw-base lamp/retrofit kit replacir	249	600		Midpoint Valu	1/1/2022	
254	Hard-to-Reach Businesses	LED Low Bay Fixture replacing 150W-300W fixture	250	225		Midpoint Valu	1/1/2022	
255	Hard-to-Reach Businesses	LED low bay mogul screw-base lamp/retrofit kit replacin	251	225		Midpoint Valu	1/1/2022	
256	Hard-to-Reach Businesses	LED Low/High Bay Fixture replacing 301W-450W fixture	252	375		Midpoint Valu	1/1/2022	
257	Hard-to-Reach Businesses	LED low/high bay mogul screw-base lamp/retrofit kit rep	253	375		Midpoint Valu	1/1/2022	
258	Hard-to-Reach Businesses	LED Open Sign	254	7.66666667		IL TRM V.5	1/1/2022	
259	Hard-to-Reach Businesses	LED Refrigerator Case Light	255	102	IL TRM v6 vol2	370-372 (port	1/1/2022	
260	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Bathroom	256	:or rated at 2.	IL TRM v6 vol2	90	1/1/2022	
261	Hard-to-Reach Businesses	Low Flow Faucet Aerator - Kitchen	257	:or rated at 2.	IL TRM v6 vol2	90	1/1/2022	
262	Hard-to-Reach Businesses	Low Flow Showerhead	258	rated at 2.5 (	IL TRM v6 vol2	98	1/1/2022	
263	Hard-to-Reach Businesses	Networked Lighting Controls	259				1/1/2022	
264	Hard-to-Reach Businesses	Open Display Case_Low Temperature	260	:k style cases	FOE TRM		1/1/2022	
265	Hard-to-Reach Businesses	Packaged RTU Sealing	261	n (single zone	IL TRM v4.4.43	Packaged RTU Se	1/1/2022	
266	Hard-to-Reach Businesses	Packaged Terminal Air Conditioner	262	10.2	IL TRM v6 vol2	186	1/1/2022	
267	Hard-to-Reach Businesses	Parking Garage 4'2L T5, T5HP, or T8 replacing 101W-175'	263	150		Midpoint Valu	1/1/2022	
268	Hard-to-Reach Businesses	Parking Garage LED Linear Tube Light Bulb	264	150		Midpoint Valu	1/1/2022	
269	Hard-to-Reach Businesses	Parking Garage LED replacing 101W-175W Fixture or Mo	265	137		Midpoint Valu	1/1/2022	
270	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Large	266	1.9	IL TRM v5 vol2	64	1/1/2022	
271	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Medium	267	1.9	IL TRM v5 vol2	64	1/1/2022	
272	Hard-to-Reach Businesses	Pre-Rinse Spray Valves Small	268	1.9	IL TRM v6 vol2	62	1/1/2022	
273	Hard-to-Reach Businesses	Remove 4ft Lamp from T8 or T12 system	269	28	IL TRM v6 vol2	347 (portfolio	1/1/2022	
274	Hard-to-Reach Businesses	Remove 8ft Lamp from T8 or T12 System	270	58	IL TRM v5 vol3	347 (portfolio	1/1/2022	
275	Hard-to-Reach Businesses	Strip Curtains Cooler	271		IL TRM v6 vol2	450	1/1/2022	
276	Hard-to-Reach Businesses	Strip Curtains Freezer	272		IL TRM v6 vol2	450	1/1/2022	
277	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	273	ut a VFD or ot	IL TRM v9 vol2	306	1/1/2022	
278	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	274	ut a VFD or ot	IL TRM v9 vol2	306	1/1/2022	
279	Hard-to-Reach Businesses	Variable Speed Drives for HVAC Supply and Return Fans_	275	ut a VFD or ot	IL TRM v9 vol2	306	1/1/2022	
280	Hard-to-Reach Businesses	VSD Pumps/Fan (Cooling Tower Fan)	276		IL TRM V9 vol2	280	1/1/2022	
281	Hard-to-Reach Businesses	Water Heater Pipe Insulation	277				1/1/2022	
282	Hard-to-Reach Businesses	Water Heater Tank Wrap	278	ter insulation	IL TRM v7 vol3	204	1/1/2022	
283	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.27 kW/ton	279	0.596	IL TRM v9 vol2	203	1/1/2022	
284	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_0.6 kW/ton	280	0.549	IL TRM v9 vol2	203	1/1/2022	
285	Hard-to-Reach Businesses	Water-Cooled Chiller (Centrifugal)_03-0.45 kW/ton	281	0.539	IL TRM v9 vol2	203	1/1/2022	
286	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.27 kW/t	282	0.54	IL TRM v9 vol2	203	1/1/2022	
287	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.3-0.45 k	283	0.58	IL TRM v9 vol2	203	1/1/2022	
288	Hard-to-Reach Businesses	Water-Cooled Chiller (Positive Displacement)_0.6 kW/to	284	0.615	IL TRM v9 vol2	203	1/1/2022	
289	Hard-to-Reach Businesses	Window Film (Converted Residences)	285	ו	AR TRM v8.1	357	1/1/2022	
290	Hard-to-Reach Businesses	Window Film (Small Commercial)	286	ו	AR TRM v8.1	359	1/1/2022	
291	Hard-to-Reach Homes	Air Sealing - 30% MF AC	287	4428.85	Calculated Value from Tracking		1/1/2022	
292	Hard-to-Reach Homes	Air Sealing - 30% SF AC	288	4428.85	Calculated Value from Tracking		1/1/2022	

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293	Hard-to-Reach Homes	Air Sealing - 30% MF AC/ER	289	4428.85	Calculated Value from Tracking		1/1/2022	
294	Hard-to-Reach Homes	Air Sealing - 30% MF ASHP	290	4428.85	Calculated Value from Tracking		1/1/2022	
295	Hard-to-Reach Homes	Air Sealing - 30% SF AC/ER	291	4428.85	Calculated Value from Tracking		1/1/2022	
296	Hard-to-Reach Homes	Air Sealing - 30% SF ASHP	292	4428.85	Calculated Value from Tracking		1/1/2022	
297	Hard-to-Reach Homes	ASHP SEER 15	293	14	IL TRM v9 vol3	77	1/1/2022	
298	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement	294	9.3	IL TRM v9 vol3	77	1/1/2022	
299	Hard-to-Reach Homes	ASHP SEER 15 - Early Replacement (Future)	295	14	IL TRM v9 vol3	77	1/1/2022	
300	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat	296	14	IL TRM v9 vol3	77	1/1/2022	
301	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	297	9.3	IL TRM v9 vol3	77	1/1/2022	
302	Hard-to-Reach Homes	ASHP SEER 15 - Replace Electric Resistance Heat - Early R	298	14	IL TRM v9 vol3	77	1/1/2022	
303	Hard-to-Reach Homes	ASHP SEER 16	299	14	IL TRM v9 vol3	77	1/1/2022	
304	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement	300	9.3	IL TRM v9 vol3	77	1/1/2022	
305	Hard-to-Reach Homes	ASHP SEER 16 - Early Replacement (Future)	301	14	IL TRM v9 vol3	77	1/1/2022	
306	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	302	9.3	IL TRM v9 vol3	77	1/1/2022	
307	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	303	14	IL TRM v9 vol3	77	1/1/2022	
308	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	304	9.3	IL TRM v9 vol3	77	1/1/2022	
309	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	305	14	IL TRM v9 vol3	77	1/1/2022	
310	Hard-to-Reach Homes	ASHP SEER 16 - replace electric furnace / CAC: MF	306	14	IL TRM v9 vol3	77	1/1/2022	
311	Hard-to-Reach Homes	ASHP SEER 16 - Replace Electric Resistance Heat	307	14	IL TRM v9 vol3	77	1/1/2022	
312	Hard-to-Reach Homes	ASHP SEER 17	308	14	IL TRM v9 vol3	77	1/1/2022	
313	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement	309	9.3	IL TRM v9 vol3	77	1/1/2022	
314	Hard-to-Reach Homes	ASHP SEER 17 - Early Replacement (Future)	310	14	IL TRM v9 vol3	77	1/1/2022	
315	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF	311	9.3	IL TRM v9 vol3	77	1/1/2022	
316	Hard-to-Reach Homes	ASHP SEER 17 - replace ASHP - Early Replacement: MF (F	312	13	IL TRM v9 vol3	77	1/1/2022	
317	Hard-to-Reach Homes	ASHP SEER 17 - replace electric furnace / CAC: MF	313	14	IL TRM v9 vol3	77	1/1/2022	
318	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat	314	14	IL TRM v9 vol3	77	1/1/2022	
319	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	315	9.3	IL TRM v9 vol3	77	1/1/2022	
320	Hard-to-Reach Homes	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	316	14	IL TRM v9 vol3	77	1/1/2022	
321	Hard-to-Reach Homes	ASHP SEER 18	317	14	IL TRM v9 vol3	77	1/1/2022	
322	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement	318	9.3	IL TRM v9 vol3	77	1/1/2022	
323	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	319	14	IL TRM v9 vol3	77	1/1/2022	
324	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF	320	9.3	IL TRM v9 vol3	77	1/1/2022	
325	Hard-to-Reach Homes	ASHP SEER 18 - replace ASHP - Early Replacement: MF (F	321	13	IL TRM v9 vol3	77	1/1/2022	
326	Hard-to-Reach Homes	ASHP SEER 18 - replace electric furnace / CAC: MF	322	14	IL TRM v9 vol3	77	1/1/2022	
327	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat	323	14	IL TRM v9 vol3	77	1/1/2022	
328	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	324	9.3	IL TRM v9 vol3	77	1/1/2022	
329	Hard-to-Reach Homes	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	325	14	IL TRM v9 vol3	77	1/1/2022	
330	Hard-to-Reach Homes	ASHP SEER 21	326	14	IL TRM v9 vol3	77	1/1/2022	
331	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement	327	9.3	IL TRM v9 vol3	77	1/1/2022	
332	Hard-to-Reach Homes	ASHP SEER 21 - Early Replacement (Future)	328	14	IL TRM v9 vol3	77	1/1/2022	
333	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat	329	14	IL TRM v9 vol3	77	1/1/2022	
334	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	330	9.3	IL TRM v9 vol3	77	1/1/2022	
335	Hard-to-Reach Homes	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	331	14	IL TRM v9 vol3	77	1/1/2022	
336	Hard-to-Reach Homes	Bathroom Exhaust Fan (Int.)	332	2.2	IL TRM v9 vol3	140	1/1/2022	
337	Hard-to-Reach Homes	CAC SEER 15	333	13	IL TRM v9 vol3	93	1/1/2022	
338	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement	334	9.3	IL TRM v9 vol3	93	1/1/2022	
339	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement (Future)	335	13	IL TRM v9 vol3	93	1/1/2022	
340	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF	336	9.3	IL TRM v9 vol3	93	1/1/2022	

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341	Hard-to-Reach Homes	CAC SEER 15 - Early Replacement: MF (Future)	337	13	IL TRM v9 vol3	93	1/1/2022	
342	Hard-to-Reach Homes	CAC SEER 15 - Replace at Fail: MF	338	13	IL TRM v9 vol3	93	1/1/2022	
343	Hard-to-Reach Homes	CAC SEER 16	339	13	IL TRM v9 vol3	93	1/1/2022	
344	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement	340	9.3	IL TRM v9 vol3	93	1/1/2022	
345	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement (Future)	341	13	IL TRM v9 vol3	93	1/1/2022	
346	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF	342	9.3	IL TRM v9 vol3	93	1/1/2022	
347	Hard-to-Reach Homes	CAC SEER 16 - Early Replacement: MF (Future)	343	13	IL TRM v9 vol3	93	1/1/2022	
348	Hard-to-Reach Homes	CAC SEER 16 - Replace at Fail: MF	344	13	IL TRM v9 vol3	93	1/1/2022	
349	Hard-to-Reach Homes	CAC SEER 17	345	13	IL TRM v9 vol3	93	1/1/2022	
350	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement	346	9.3	IL TRM v9 vol3	93	1/1/2022	
351	Hard-to-Reach Homes	CAC SEER 17 - Early Replacement (Future)	347	13	IL TRM v9 vol3	93	1/1/2022	
352	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement	348	13	IL TRM v9 vol3	93	1/1/2022	
353	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement (Future)	349	9.3	IL TRM v9 vol3	93	1/1/2022	
354	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF	350	9.3	IL TRM v9 vol3	93	1/1/2022	
355	Hard-to-Reach Homes	CAC SEER 17+ - Early Replacement: MF (Future)	351	13	IL TRM v9 vol3	93	1/1/2022	
356	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail	352	13	IL TRM v9 vol3	93	1/1/2022	
357	Hard-to-Reach Homes	CAC SEER 17+ - Replace at Fail: MF	353	13	IL TRM v9 vol3	93	1/1/2022	
358	Hard-to-Reach Homes	ENERGY STAR Bathroom Exhaust Fan (Int.)	354	2.2	IL TRM v9 vol3	140	1/1/2022	
359	Hard-to-Reach Homes	ENERGY STAR Clothes Dryers	355	3.11	IL TRM v9 vol3	48	1/1/2022	
360	Hard-to-Reach Homes	ENERGY STAR Clothes Washers	356	1.75	IL TRM v9 vol3	10	1/1/2022	
361	Hard-to-Reach Homes	ENERGY STAR Clothes Washers_CEE Tier 2	357	1.75	IL TRM v9 vol3	10	1/1/2022	
362	Hard-to-Reach Homes	ENERGY STAR Freezers	358		IL TRM v9 vol3	26	1/1/2022	
363	Hard-to-Reach Homes	ENERGY STAR Refrigerators	359		IL TRM v9 vol3	30	1/1/2022	
364	Hard-to-Reach Homes	Energy Star Vented Electric, Compact (240V) (< 4.4 ft3)	360	2.73	MO TRM 2017	13	1/1/2022	
365	Hard-to-Reach Homes	Energy Star Vented or Ventless Electric, Compact (120V)	361	3.01	MO TRM 2017	13	1/1/2022	
366	Hard-to-Reach Homes	Energy Star Ventless Electric, Compact (240V) (< 4.4 ft3)	362	2.13	MO TRM 2017	13	1/1/2022	
367	Hard-to-Reach Homes	Exterior Lighting - Photosensor Control	363		MI TRM 2019 Photo Cell Daylig	h	1/1/2022	
368	Hard-to-Reach Homes	GSHP - EER 23_Replace Electric Furnace at Fail / Time of	364	14	IL TRM v9 vol3	130	1/1/2022	
369	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 23	365	13	IL TRM v9 vol3	157	1/1/2022	
370	Hard-to-Reach Homes	Heat Pump Ductless Mini Split_SEER 30	366	13	IL TRM v9 vol3	157	1/1/2022	
371	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	367	0.945	IL TRM v9 vol3	201	1/1/2022	
372	Hard-to-Reach Homes	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	368	0.945	IL TRM v9 vol3	201	1/1/2022	
373	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: ASHP	369	ı is an AC syst	IL TRM v7 vol3	127	1/1/2022	
374	Hard-to-Reach Homes	HVAC Maintenance and Tune-up_SF: CAC	370	ı is an AC syst	IL TRM v7 vol3	127	1/1/2022	
375	Hard-to-Reach Homes	Income-Eligible Multi-Family Custom Measure	371				1/1/2022	
376	Hard-to-Reach Homes	Increased Ceiling Insulation	372	17.2828025	Program Tracking Data		1/1/2022	
377	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_MF	373	17.2828025	Program Tracking Data		1/1/2022	
378	Hard-to-Reach Homes	Increased Ceiling Insulation_AC/ER_SF	374	17.2828025	Program Tracking Data		1/1/2022	
379	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_MF	375	17.2828025	Program Tracking Data		1/1/2022	
380	Hard-to-Reach Homes	Increased Ceiling Insulation_AC_SF	376	17.2828025	Program Tracking Data		1/1/2022	
381	Hard-to-Reach Homes	Increased Ceiling Insulation_HP_MF	377	17.2828025	Program Tracking Data		1/1/2022	
382	Hard-to-Reach Homes	LED Exit Sign_MF	378	7	IL TRM v9 vol2	509	1/1/2022	
383	Hard-to-Reach Homes	LED Flood Light (<15W) (Exterior)	379	ture			1/1/2022	
384	Hard-to-Reach Homes	LED Nightlights	380	ı nightlight			1/1/2022	
385	Hard-to-Reach Homes	Linear Lighting (MF Common area)	381	88.5	IL TRM v9 vol3	283	1/1/2022	
386	Hard-to-Reach Homes	Low Flow Faucet Aerator-Bathroom	382	1.53	IL TRM v9 vol3	208	1/1/2022	
387	Hard-to-Reach Homes	Low Flow Faucet Aerator-Kitchen	383	1.63	IL TRM v9 vol3	208	1/1/2022	
388	Hard-to-Reach Homes	Low Flow Showerhead	384	2.24	IL TRM v9 vol3	218	1/1/2022	

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389	Hard-to-Reach Homes	Room AC Units	385	om AC			1/1/2022	
390	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Exterior)	386	43	Program Tracking Database		1/1/2022	
391	Hard-to-Reach Homes	Screw In - LEDs - MF Common Area (Interior)	387	43	Program Tracking Database		1/1/2022	
392	Hard-to-Reach Homes	Screw In - LEDs (In-Unit)	388	43	Program Tracking Database		1/1/2022	
393	Hard-to-Reach Homes	Screw In - Specialty LEDs	389	54	Program Tracking Data		1/1/2022	
394	Hard-to-Reach Homes	Screw In - Specialty LEDs (Exterior)	390	65	IL TRM v9 vol3	257	1/1/2022	
395	Whole Home Efficiency	Air Sealing - 30% MF AC	391	4134	Program Tracking Data		1/1/2022	
396	Whole Home Efficiency	Air Sealing - 30% SF AC	392	4134	Program Tracking Data		1/1/2022	
397	Whole Home Efficiency	Air Sealing - 30% MF AC/ER	393	4134	Program Tracking Data		1/1/2022	
398	Whole Home Efficiency	Air Sealing - 30% MF ASHP	394	4134	Program Tracking Data		1/1/2022	
399	Whole Home Efficiency	Air Sealing - 30% SF AC/ER	395	4134	Program Tracking Data		1/1/2022	
400	Whole Home Efficiency	Air Sealing - 30% SF ASHP	396	4134	Program Tracking Data		1/1/2022	
401	Whole Home Efficiency	Air Sealing - 50% MF AC	397	4134	Program Tracking Data		1/1/2022	
402	Whole Home Efficiency	Air Sealing - 50% SF AC	398	4134	Program Tracking Data		1/1/2022	
403	Whole Home Efficiency	Air Sealing - 50% MF AC/ER	399	4134	Program Tracking Data		1/1/2022	
404	Whole Home Efficiency	Air Sealing - 50% MF ASHP	400	4134	Program Tracking Data		1/1/2022	
405	Whole Home Efficiency	Air Sealing - 50% SF AC/ER	401	4134	Program Tracking Data		1/1/2022	
406	Whole Home Efficiency	Air Sealing - 50% SF ASHP	402	4134	Program Tracking Data		1/1/2022	
407	Whole Home Efficiency	ASHP SEER 16	403	14	IL TRM v9 vol3	77	1/1/2022	
408	Whole Home Efficiency	ASHP SEER 16 - Early Replacement	404	9.3	IL TRM v9 vol3	77	1/1/2022	
409	Whole Home Efficiency	ASHP SEER 16 - Early Replacement (Future)	405	14	IL TRM v9 vol3	77	1/1/2022	
410	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	406	9.3	IL TRM v9 vol3	77	1/1/2022	
411	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	407	14	IL TRM v9 vol3	77	1/1/2022	
412	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	408	9.3	IL TRM v9 vol3	77	1/1/2022	
413	Whole Home Efficiency	ASHP SEER 16 - replace electric furnace / CAC - Early Rep	409	14	IL TRM v9 vol3	77	1/1/2022	
414	Whole Home Efficiency	ASHP SEER 16 - Replace Electric Resistance Heat	410	14	IL TRM v9 vol3	77	1/1/2022	
415	Whole Home Efficiency	ASHP SEER 17	411	14	IL TRM v9 vol3	77	1/1/2022	
416	Whole Home Efficiency	ASHP SEER 17 - Early Replacement	412	9.3	IL TRM v9 vol3	77	1/1/2022	
417	Whole Home Efficiency	ASHP SEER 17 - Early Replacement (Future)	413	14	IL TRM v9 vol3	77	1/1/2022	
418	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat	414	14	IL TRM v9 vol3	77	1/1/2022	
419	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	415	9.3	IL TRM v9 vol3	77	1/1/2022	
420	Whole Home Efficiency	ASHP SEER 17 - Replace Electric Resistance Heat - Early R	416	14	IL TRM v9 vol3	77	1/1/2022	
421	Whole Home Efficiency	ASHP SEER 18	417	14	IL TRM v9 vol3	77	1/1/2022	
422	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement	418	9.3	IL TRM v9 vol3	77	1/1/2022	
423	Whole Home Efficiency	ASHP SEER 18 - replace ASHP - Early Replacement (Futu	419	14	IL TRM v9 vol3	77	1/1/2022	
424	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat	420	14	IL TRM v9 vol3	77	1/1/2022	
425	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	421	9.3	IL TRM v9 vol3	77	1/1/2022	
426	Whole Home Efficiency	ASHP SEER 18 - Replace Electric Resistance Heat - Early R	422	14	IL TRM v9 vol3	77	1/1/2022	
427	Whole Home Efficiency	ASHP SEER 21	423	14	IL TRM v9 vol3	77	1/1/2022	
428	Whole Home Efficiency	ASHP SEER 21 - Early Replacement	424	9.3	IL TRM v9 vol3	77	1/1/2022	
429	Whole Home Efficiency	ASHP SEER 21 - Early Replacement (Future)	425	14	IL TRM v9 vol3	77	1/1/2022	
430	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat	426	14	IL TRM v9 vol3	77	1/1/2022	
431	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	427	9.3	IL TRM v9 vol3	77	1/1/2022	
432	Whole Home Efficiency	ASHP SEER 21 - Replace Electric Resistance Heat - Early R	428	14	IL TRM v9 vol3	77	1/1/2022	
433	Whole Home Efficiency	CAC SEER 16	429	13	IL TRM v9 vol3	93	1/1/2022	
434	Whole Home Efficiency	CAC SEER 16 - Early Replacement	430	9.3	IL TRM v9 vol3	93	1/1/2022	
435	Whole Home Efficiency	CAC SEER 16 - Early Replacement (Future)	431	13	IL TRM v9 vol3	93	1/1/2022	
436	Whole Home Efficiency	CAC SEER 17	432	13	IL TRM v9 vol3	93	1/1/2022	

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437	Whole Home Efficiency	CAC SEER 17 - Early Replacement	433	9.3	IL TRM v9 vol3	93	1/1/2022	
438	Whole Home Efficiency	CAC SEER 17 - Early Replacement (Future)	434	13	IL TRM v9 vol3	93	1/1/2022	
439	Whole Home Efficiency	CAC SEER 17+ - Early Replacement	435	13	IL TRM v9 vol3	93	1/1/2022	
440	Whole Home Efficiency	CAC SEER 17+ - Early Replacement (Future)	436	9.3	IL TRM v9 vol3	93	1/1/2022	
441	Whole Home Efficiency	CAC SEER 17+ - Replace at Fail	437	13	IL TRM v9 vol3	93	1/1/2022	
442	Whole Home Efficiency	Dehumidifier Recycling	438	ier	MO TRM vol 3-3.1.6		1/1/2022	
443	Whole Home Efficiency	Dehumidifiers	439	humidifier			1/1/2022	
444	Whole Home Efficiency	Dehumidifiers_ENERGY STAR Most Efficient	440	humidifier			1/1/2022	
445	Whole Home Efficiency	Duct Repair and Sealing	441	:work			1/1/2022	
446	Whole Home Efficiency	Duct Repair and Sealing_MF	442	:work			1/1/2022	
447	Whole Home Efficiency	ENERGY STAR Freezers	443		IL TRM v9 vol3	26	1/1/2022	
448	Whole Home Efficiency	ENERGY STAR Pool Pump and motor w/ auto controls - n	444	al pool pump			1/1/2022	
449	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 201+	445	purifier			1/1/2022	
450	Whole Home Efficiency	ENERGY STAR Room Air Purifiers - CADR 51-200	446	purifier			1/1/2022	
451	Whole Home Efficiency	ENERGY STAR VFDs on Residential Swimming Pool Pump	447	al pool pump			1/1/2022	
452	Whole Home Efficiency	Exterior Lighting - Photosensor Control	448		MI TRM 2019 Photo Cell Dayligh		1/1/2022	
453	Whole Home Efficiency	Freezer Recycling	449	erational unit having capacity between 10 to 3(			1/1/2022	
454	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 23	450	13	IL TRM v9 vol3	157	1/1/2022	
455	Whole Home Efficiency	Heat Pump Ductless Mini Split_SEER 30	451	13	IL TRM v9 vol3	157	1/1/2022	
456	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; < 2.6 UEF	452	0.945	IL TRM v9 vol3	201	1/1/2022	
457	Whole Home Efficiency	Heat Pump Water Heaters < 55 gallons; > 2.6 UEF	453	0.945	IL TRM v9 vol3	201	1/1/2022	
458	Whole Home Efficiency	High Efficiency Sound Bars	454	77	Wisconsin Focus on Energy 201(		1/1/2022	
459	Whole Home Efficiency	High Efficiency Water Cooler_Cold Water Only	455	ooler	IL TRM v8-5.1.11		1/1/2022	
460	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-On D	456	ooler	IL TRM v8-5.1.11		1/1/2022	
461	Whole Home Efficiency	High Efficiency Water Cooler_Hold and Cold Water-Stora	457	ooler	IL TRM v8-5.1.11		1/1/2022	
462	Whole Home Efficiency	HVAC Maintenance and Tune-up_SF: CAC	458	is an AC syst	IL TRM v7 vol3	127	1/1/2022	
463	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC/ER_SF	459	- Rim/Band Jo	IL TRM v8 -5.6.6		1/1/2022	
464	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_AC_SF	460	- Rim/Band Jo	IL TRM v8 -5.6.6		1/1/2022	
465	Whole Home Efficiency	Insulation - Rim/Band Joist Insulation_HP_SF	461	- Rim/Band Jo	IL TRM v8 -5.6.6		1/1/2022	
466	Whole Home Efficiency	LED Exit Sign_MF	462	7	IL TRM v9 vol2	509	1/1/2022	
467	Whole Home Efficiency	LED Flood Light (<15W) (Exterior)	463	ture			1/1/2022	
468	Whole Home Efficiency	LED Nightlights	464	nightlight			1/1/2022	
469	Whole Home Efficiency	Linear Lighting (MF Common area)	465	88.5	IL TRM v9 vol3	283	1/1/2022	
470	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	466	1.53	IL TRM v9 vol3	208	1/1/2022	
471	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	467	1.63	IL TRM v9 vol3	208	1/1/2022	
472	Whole Home Efficiency	Low Flow Showerhead	468	2.24	IL TRM v9 vol3	218	1/1/2022	
473	Whole Home Efficiency	Low-E storm Windows_AC/ER_MF	469		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
474	Whole Home Efficiency	Low-E storm Windows_AC/ER_SF	470		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
475	Whole Home Efficiency	Low-E storm Windows_AC_MF	471		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
476	Whole Home Efficiency	Low-E storm Windows_AC_SF	472		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
477	Whole Home Efficiency	Low-E storm Windows_HP_MF	473		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
478	Whole Home Efficiency	Low-E storm Windows_HP_SF	474		MO TRM 2017 3.7.6 Storm Winc		1/1/2022	
479	Whole Home Efficiency	Ozone Laundry	475	hes Washer	IL TRM v8-5.1.12		1/1/2022	
480	Whole Home Efficiency	Pool Pump Timer	476				1/1/2022	
481	Whole Home Efficiency	Refrigerator Recycling	477	erational unit having capacity between 10 to 3(			1/1/2022	
482	Whole Home Efficiency	Room Air Conditioner Recycling	478	erational unit			1/1/2022	
483	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Exterior)	479	43	Program Tracking Database		1/1/2022	
484	Whole Home Efficiency	Screw In - LEDs - MF Common Area (Interior)	480	43	Program Tracking Database		1/1/2022	

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	A	B	C	AG	AH	AI	AJ	AK
3	*Measure Description*						*Start/End Dates*	
4	**Program**	**Measure Name**	**Primary Key**	**Baseline Efficiency Value**	**Baseline Efficiency Value Source**	**Baseline Efficiency Value Source Page Number**	**Effective Start Date**	**Effective End Date**
485	Whole Home Efficiency	Screw In - LEDs (In-Unit)	481	43	Program Tracking Database		1/1/2022	
486	Whole Home Efficiency	Screw In - Specialty LEDs	482	54	Program Tracking Data		1/1/2022	
487	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	483	65	IL TRM v9 vol3	257	1/1/2022	
488	Whole Home Efficiency	Shade Tree	484	No Tree	Measure Definitic	Measure Defi	1/1/2022	
489	Whole Home Efficiency	Smart Power Strip - Wh7-Plug	485		IL TRM v9 vol3	63	1/1/2022	
490	Whole Home Efficiency	Variable Speed Pump - MF Hot Water Recirculation	486				1/1/2022	
491	Whole Home Efficiency	Water Heater - Solar System	487		Texas TRM v6-2.4.7		1/1/2022	
492	Whole Home Efficiency	Water Heater Tank Wrap_40 gallon	488	ter insulation	Measure Definition		1/1/2022	
493	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon	489	ter insulation	Measure Definition		1/1/2022	
494	Whole Home Efficiency	Water Heater Tank Wrap_50 gallon_MF	490	ter insulation	Measure Definition		1/1/2022	
495	Whole Home Efficiency	Water Heater Tank Wrap_80 gallon	491	ter insulation	Measure Definition		1/1/2022	
496	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_MF	492		AR TRM v8, 2.2.8 Window Film		1/1/2022	
497	Whole Home Efficiency	Windows - Install Reflective Film_Single Pan_SF	493		AR TRM v8, 2.2.8 Window Film		1/1/2022	
498	Home Energy Education	Behavioral Measures Tier 1	494				1/1/2022	
499	Home Energy Education	Behavioral Measures Tier 2	495				1/1/2022	
500	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	496	1.53	IL TRM v9 vol3	208	1/1/2022	
501	Whole Home Efficiency	Low Flow Faucet Aerator-Bathroom	497	1.53	IL TRM v9 vol3	208	1/1/2022	
502	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	498	1.63	IL TRM v9 vol3	208	1/1/2022	
503	Whole Home Efficiency	Low Flow Faucet Aerator-Kitchen	499	1.63	IL TRM v9 vol3	208	1/1/2022	
504	Whole Home Efficiency	Low Flow Showerhead	500	2.24	IL TRM v9 vol3	218	1/1/2022	
505	Whole Home Efficiency	Low Flow Showerhead	501	2.24	IL TRM v9 vol3	218	1/1/2022	
506	Whole Home Efficiency	Screw In - LEDs (In-Unit)	502	43	Program Tracking Database		1/1/2022	
507	Whole Home Efficiency	Screw In - Specialty LEDs	503	54	Program Tracking Data		1/1/2022	
508	Whole Home Efficiency	Screw In - Specialty LEDs (Exterior)	504	65	IL TRM v9 vol3	257	1/1/2022	

Appendix D. Evaluation, Measurement and Verification (EM&V) Framework

1. Introduction and Purpose of the EM&V Framework

This proposed Framework includes guidelines and expectations for the Evergy Kansas electric companies whose demand side management (DSM) programs are approved by the KCC to promote the goals and objectives of KEEIA. The Companies are Evergy Kansas Central and Evergy Kansas Metro. The objective is to complete a comprehensive independent evaluation of the Company's DSM programs (program years ending in 2023, 2024, 2025 and 2026) implemented in accordance with the requirements of KEEIA.

The purpose of this EM&V Framework is to ensure shared understanding of the expectations, requirements, and processes to complete EM&V for the programs. This EM&V Framework is intended to provide functional guidance that is to be useful for KEEIA parties engaged in the EM&V activities or using the output of the EM&V activities. The details of how EM&V is to be conducted, for example, specific methods, equations, assumptions, are described in supporting documents.

KEEIA programs will be evaluated on a verified net basis. Gross savings will be determined by the best available method such as billing analysis, engineering analysis, or deemed savings estimates. Net savings will account for the effects of free riders and spillover on the total program savings. Free riders are participants who take advantage of a program, but who would have done exactly the same thing without the benefits of the program.

Net Savings = Gross Savings x Net to Gross Ratio

In addition to being the basis to evaluate program impacts, net savings can be used to provide program design and marketing guidance that can support planning for future program years, to inform updates to the Technical Resource Manual (TRM), and to be used in program benefit costs analysis.

To conduct these activities, an Evaluation Measurement and Verification (EM&V) Contractor will be engaged, and will collaborate with the Company and the stakeholders, including the KCC staff, to develop procedures to assess program effectiveness and cost-effectiveness in meeting KEEIA objectives through appropriate and rigorous EM&V practices. The framework will also provide the EM&V Contractor and stakeholders guidance to ensure consistency in evaluation practices, allowing for evaluations to adjust for program-level differences and activity levels.

The following sections comprise this framework:

- Evaluation principals
- TRM development and use
- Impact evaluation
- Process evaluation
- Planning and Reporting

- Timeline, budget, and review expectations
- Oversight roles and responsibilities

This document also provides an overview of the Technical Reference Manual (TRM) and defines guidelines for acceptable measurement protocols for custom measures in order to mitigate risks to delivering cost effective measures. This will necessitate a clear understanding of the methodologies to be used for determining verified energy and demand savings.

Accordingly, this document covers these overall elements:

- Structure of oversight activities covering items such as:
    - Development of EM&V Plans
    - Review of annual and progress reports
    - Annual updates to the Technical Reference Manual (TRM)
- Program data to be collected by the program implementation partners and verified by the Evaluation, Measurement, and Verification (EM&V) contractor, including how the confidentiality of customer information will be properly maintained.
- Review of activities to be conducted by and/or on behalf of KEEIA stakeholders to confirm the accuracy of reported savings and cost-effectiveness with these distinct, fundamental purposes:
    - Impact evaluations - quantify the energy, demand, and non-energy impacts that have resulted from energy efficiency and demand response program operations.
    - Process evaluations - describe how well programs operate and demonstrate their efficiency and effectiveness.
    - Cost-effectiveness tests - assess that the avoided costs of supplying electricity are greater than the cost of energy and demand conservation measures.
    - Market assessments and descriptions - determine the attitudes and awareness of market participants, measure market indicators, and identify barriers to market penetration.
    - Expectations and technical guidance for evaluation activities:
        - Savings protocols (TRM)
        - Metrics and data formats
        - Guidance and requirements on claiming savings
        - Guidance and requirements on gross impact evaluation procedures
        - Guidance and requirements on process evaluation procedures
        - Guidance and requirements on net-to-gross (NTG) analysis
        - Guidance and requirements on cost-effectiveness analysis
        - Required reporting formats and frequency
        - Data management and quality control guidelines and requirements
        - Guidance and requirements on data tracking and reporting systems
        - Description and schedule of activities the stakeholders will conduct to review evaluations performed by the evaluation contractor and evaluate the Company's progress toward attainment of KEEIA energy and demand savings targets

This EM&V Framework is a living document that will be updated as needed. Updates will be done in a manner that ensures a coordinated approach such that the update addresses issues identified by all stakeholders. This updating process will be completed as needed and with ample time for the next portfolio, program, and/or EM&V planning period as applicable.

The following table delineates the key roles and responsibilities for the Company, the KCC/ (Staff) / EM&V Auditor, the EM&V Contractor, the Program Partners, and other Stakeholders. The "X" in any column indicates the role or responsibility that a stakeholder(s) may have regarding the specific task/deliverable. This list, which is not all-inclusive, and, although at a high level is listed in chronological order, it certainly recognizes that the time frame for these tasks is fluid and that tasks will overlap and be completed concurrently with associated tasks.

Table 1-1: Roles and Responsibilities – Initial Stakeholder Oversight

Task/ Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC (Staff) / EM&V Auditor	Stakeholder group
Review and update the Evaluation Framework	**X**				
Provide input on the Evaluation Framework as needed			**X**	**X**	**X**
Approve the Evaluation Framework and revisions				**X**	**X**
Issue RFP for EM&V Contractor and make selection	**X**				
Review and/or approve EM&V Contractor selection				**X**	
Conduct energy efficiency baseline studies to support Market Potential Study		**X**	**X**		
Develop and conduct NTG studies			**X**		
Coordinate the development of methodologies for NTG studies consistent with the NTG industry best practices			**X**		
Approve the overall methodologies for NTG studies				**X**	

Table 1-2: Roles and Responsibilities – Evaluation Plans

Task/ Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC (Staff)	Stakeholder group
Review and update the Evaluation Framework	X				
Provide input on the Evaluation Framework as needed			X	X	X
Review and approve the initial Evaluation Framework				X	X
Issue RFP for EM&V Contractor and make selection	X				
Review and/or approve EM&V Contractor selection				X	
Issue RFP for EM&V Auditor and make selection				X	
Organize and conduct periodic stakeholder meetings on evaluation results of EE programs and proposed changes to programs and to the TRM	X		X	X	X

Table 1-2: Roles and Responsibilities – Evaluation Plans

Task / Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC / Staff / EM&V (State) Auditor	Stakeholder group
Conduct energy efficiency baseline studies to support Market Potential Study		X	X		
Coordinate the development of and approve the methodologies for NTG studies consistent with the NTG industry best practices				X	X
Develop and conduct NTG studies		X	X		
Prepare impact and process evaluation plans (EM&V plans), including database and reporting protocols, survey templates, and schedules		X	X		
Review and approve the evaluation plans submitted by evaluation contractor				X	X

Table 1-3: Roles and Responsibilities – TRM and Databases

Task / Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC / Staff / EM&V Auditor	Stakeholder group
Initiate and coordinate annual updates to TRM for next program year and any interim updates	X	X	X		
Approve TRM updates for next Program Year				X	
Design, implement, and maintain primary program tracking database(s) with project and program data	X	X			
Develop and maintain secure site / file transfer for maintenance and exchange of confidential data and information	X	X	X		

Table 1-4: Roles and Responsibilities – Impact & Process Evaluations

Task / Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC / Staff / EM&V Auditor	Stakeholder group
Collect primary data and site baseline information			X		
Determine ex post verification of installation, measure viability, and energy savings			X		
Analyze and document project, program, and portfolio gross and net energy and demand savings			X		
Conduct impact evaluation, process evaluation, NTG analysis, and cost-effectiveness evaluation			X		
Review / audit Evaluation results, impact evaluation, process evaluation, NTG analysis, and cost-effectiveness calculations			X		X

Prepare recommendations for improvements to impact and process evaluation processes, and for program modifications and improvements		**X**	**X**		

Table 1-5: Roles and Responsibilities – Reporting

Task / Deliverable	Company	Program Partners / Implementers	EM&V Contractor	KCC / Staff / EM&V Auditor	Stakeholder group
Report quarterly and annual energy efficiency program and portfolio net and gross impacts, as applicable, and cost-effectiveness, and progress in reaching targets	**X**				
Review quarterly, semi-annual and/or annual reports on DSM programs: net and gross savings impacts, cost-effectiveness, and progress in reaching targets			**X**		**X**

2. Technical Guidance

2.1 Evaluation Principles

Evaluation objectives and approaches focus on defining the intended use(s) of the information determined through evaluation activities and the intended audiences for such information. Primary objectives include:

- Documenting program impacts and determining whether the program/portfolio meets its goals
- Providing insight as to why program-generated effects occurred, and identifying ways to improve current and future programs
- Determining cost-effectiveness of programs and portfolio
- Supporting energy demand forecasting, and resource planning in general, and/or more specifically in an integrated resource planning (IRP) effort by obtaining historical and future resource contributions of energy efficiency as compared to other energy resources.

Related to evaluation planning and implementation:

- The data, methods, and assumptions should be appropriate for the evaluated program(s). The level of effort expended in the evaluation process should be balanced with respect to the value of the savings, the uncertainty of their magnitude, and the risk of overestimated or underestimated savings levels.

- Evaluation results and calculations should be clear, complete, well-documented and transparent and in a format that enables stakeholders to understand and connect assumptions to data collection, data analysis, and results.

The EM&V Contractor should be independent and free from bias and should not have an interest in the outcome of the evaluations with respect to the performance of the programs under consideration.

Evaluation budgets and resources should be adequate to support the evaluation scope, goals, and the level of rigor and quality (certainty) expected in the evaluation results over the entire time frame that program impacts are to be assessed. The overall evaluation budget will be determined and agreed upon by parties based on such factors as level of risk and uncertainty associated with the level of savings, expected impacts of programs, use of deemed savings, reliance on impact evaluation results to support lost revenue or cost-recovery, etc. In general, EM&V costs are inversely proportional to the magnitude of the savings (i.e., larger projects have lower per-unit evaluation costs) and are directly proportional to uncertainty of predicted savings (i.e., projects with greater uncertainty in the predicted savings warrant greater EM&V costs). The EM&V budget allocation should be flexible enough to support the need for evaluation of new programs with uncertain impacts and/or pilot or test programs. Test programs, programs that target new or emerging technologies, programs that are slow to launch, programs that are not enrolling the expected number of participants, or programs that have problems achieving their projected energy goals should be conducted using process and market study approaches that are more rigorous. Careful allocation of evaluation resources must be achieved to provide the greatest value for the evaluation dollar. No more than five percent of the four-year KEEIA Cycle 1 program portfolio budget will be spent on EM&V.

2.1.1 Energy Evaluation Metrics

Metrics are indicators of the performance of a specific portfolio, program, project, or efficiency measure. Metrics are most useful when they can be compared against established targets for the metrics (e.g., savings goals), and establish requirements for the metrics, typically time (e.g., hourly, monthly, annual values). For demand savings, the choice of a definition of the metric is important (e.g., annual average, peak summer, coincident peak demand).

The major categories of metrics associated with evaluation are as follows:

- Gross energy savings, annual and lifetime
- Net energy savings, annual and lifetime
- Gross demand savings
- Net demand savings
- Utility system benefit

Gross savings and net savings are defined as follows:

- Gross savings: the change in energy consumption and/or demand that results directly from program-related actions taken by participants in a program, regardless of why they

participated. This is the physical change in use after considering factors not caused by the efficiency actions (e.g., changes in weather or building occupancy). As indicated above, gross savings will be established by the best available method such as billing analysis, engineering analysis, or deemed savings estimates in the TRM. For deemed savings, ex-post goal achievement will be the savings as verified by the EM&V contractor and may reflect installation rate, quantity and measurement and valuation adjustments. Billing analysis and metering studies may be used to adjust deemed savings estimates, prospectively only, and incorporated into the TRM. Custom projects will require engineering or other evaluation estimates that will be applied retroactively.

Net savings: the change in energy consumption and/or demand that is attributable to a particular program. Estimating net savings typically involves assessing free ridership and spillover. In other words, the energy savings that are attributable to a program's intervention in the market, exclusive of other reasons for changes in energy use. Evaluations can use approaches that produce gross savings that are then adjusted for net.

2.2 Technical Resource Manual (TRM)

A TRM protocol is a measure-specific methodology for calculating energy and demand savings without overly burdening program implementation and evaluation staff TRM deemed or stipulated values are based on proven engineering principles and algorithms which provide reasonable estimates of measure energy and demand impacts while expending relatively few evaluation resources. These TRM measure savings protocols that determine savings for standard measures help to facilitate the implementation and evaluation of DSM programs. The TRM includes several data elements which include but not limited to the following:

- Engineering calculations/algorithms (for planning, gross impacts)
- Incremental Cost (for cost effectiveness)
- Energy and Peak Demand Savings
- Measure Life (for cost effectiveness)

The TRM will document the source of data inputs and the reasons for choosing that source. Sources for the TRM can include, but not be limited to the Company's potential study, recent EM&V's from MEEIA for its Missouri jurisdictions, and/or other authoritative industry sources. The TRM will be unique to KEEIA and will be prepared by Evergy based on Evergy's MEEIA TRM as indicated above, along with specific input from the EM&V contractor and the implementers, and any feedback from stakeholders. TRM updates from the EM&V contractor will be based on the mostly completed program year evaluation as well as any other relevant input. The TRM update process typically begins promptly after the final EM&V report issued with the updated TRM finalized and approved to be effective the next program year.

The TRM fulfills the following objectives:

- Serves as a common reference document for energy efficiency and demand measures to be used by all parties.
- Establishes standardized protocols to calculate energy and demand savings for measures. The program partners (implementers) use these protocols to estimate ex ante/deemed (reported) savings achieved for the energy efficiency measures. The

EM&V contractor uses these protocols to estimate ex post (verified or net) savings achieved for energy efficiency measures.

- Increases transparency to all parties by documenting underlying assumptions and tracking references used to develop savings estimates for measures
- Balances the accuracy and reliability of savings estimates with costs incurred to measure and verify the savings estimates
- Reduces the number of savings measures that must be evaluated as custom measures

Changes in deemed energy savings or other deemed assumptions that result from program evaluation shall not be applied retrospectively; however, shall be applied to the program and portfolio prospectively in the next program year (e.g., evaluation results from program year 2023 will be finalized in late 2024 and used to update the 2025 TRM). Changes to deemed savings assumptions shall be coordinated through the annual process of updating the TRM.

Unless the parties deem otherwise, it is expected that the TRM will be updated annually by Evergy with input from the EM&V contractor and the implementers. The effective date of the TRM typically coincides with the start of the program year and thus covers the period of time during which the TRM is actively used to determine energy and demand savings. The annual process to update the TRM typically begins promptly after the final EM&V reports are issued for the most recent program year. Recommended updates are reviewed by the appropriate parties culminating in KCC approval of the TRM in the 4th quarter of the year in advance of the next program year launch on January 1st.

2.3 EM&V Evaluation Plans

The evaluation plan, or EM&V plan, outlines the approaches the EM&V contractor will use and serves as a guiding document for the evaluation. The EM&V contractor must complete an initial evaluation plan for each program and provide it to the KEEIA stakeholder group for review and approval prior to the start of the 4-year cycle. The plan may cover the first year only or the entire Cycle. If the latter, the EM&V plan may need to be revised within the program cycle. For example, early process evaluation feedback may indicate a need to change the program design, test additional (pilot) program approaches, address poor performance, or react to previously unknown market challenges

The EM&V contractor chooses the optimal structure and design for their evaluation plans; the evaluation plan will likely be a single electronic document with a section for each program in the portfolio. The evaluation plan should reflect an understanding of the program delivery mechanisms, research, and survey objectives and methodologies, data collection techniques, surveys, modeling, site inspection plans, monitoring activities, and intended deliverables. The EM&V contractor will discuss the gross impact evaluation, net-to-gross (NTG) analysis, process evaluation, and cost-effectiveness evaluation activities separately. The evaluation planning process should be part of the program planning process, so that the evaluation effort can support existing and future program implementation. Evaluation plans also should contain a proposed timeline of activities, including reporting.

EM&V reports will provide an assessment of EM&V activities completed in a manner that is consistent with the guidelines outlined in this Framework and with established EM&V methodologies. The final reporting timeline will be established so that it can efficiently and cost-effectively meet the needs of the KEEIA parties. Program cycle reporting will include both Impact and Process findings, as appropriate by program, and will be used to measure performance against program goals. Impact evaluations associated with this assessment will provide energy impact estimates for each year of the program's operations and for the program cycle in total. This reporting will allow the evaluation to document program-cycle impacts as well as annual impacts that support program planning and restructuring efforts to maintain high performing programs and portfolios.

A high-level draft EM&V Plan is provided In Attachment 2. A more detailed plan that indicates which major evaluation activities will be conducted during the evaluation cycle will be prepared after the EM&V contractor is selected.

2.3.1 EM&V Reporting and Cycles

Evaluators report evaluation results and, as appropriate, provide input to assess whether goals have been met, to include recommendations for current or future program improvements, and also to understand the historical role and future role of energy efficiency as an energy resource. Reporting also provides information to energy consumers and the general public.

Evaluation reports provide the results of the prior year's customer participation activities. The report documents the impacts, and typically cost-effectiveness, of a program, as well as the methods used to determine the impacts. There are draft versions of the evaluation report, which enables stakeholders' the opportunity to provide input on these reports. The final reports are made publicly available as they do not contain customer-specific or other confidential information. Information that is deemed confidential will be identified and the communication method will be agreed upon among the appropriate parties. The evaluation timeframe has several possible major components for consideration:

- The period over which the evaluation activities will take place i.e., evaluation activities and reporting will be based on an agreed upon schedule and/or will be tied to the portfolio cycle.
- The frequency in which each program will be evaluated (e.g., every program year, 18 months, etc.). The Company proposes that the EM&V reports will be completed annually during the proposed four-year cycle. The EM&V report is a critical part in this process as the results of the EM&V will be utilized to update the deemed measure values in the TRM, utilized in the Throughput disincentive (TD) true-up, and the resulting NTG ratios will be applied to the earnings opportunity (EO).
- The reporting period schedule will include when reports and supporting documents are due, which will be an agreed upon date, after the end of the program year. A proposed reporting schedule is as follows and is presented in a table in the high-level EM&V plan in Attachment 2.
    - The EM&V contractor will circulate a draft EM&V report to KCC Staff and designated stakeholders one hundred twenty (120) days after the end of the first year following the effective date of the programs.
    - Approximately sixty (60) days after issuance of the draft EM&V Report, KCC Staff and stakeholders will provide any comments and recommendations for

report changes to the EM&V contractor and to KCC Staff and all other Stakeholder Group participants.

- A final draft EM&V Report will be provided by the EM&V contractor to KCC Staff and stakeholders thirty (30) days after the deadline for comments and recommendations for report changes. Prior to issuing the final draft EM&V Report, the EM&V contractor will host at least one meeting with KCC Staff and stakeholders to discuss the comments and recommendations for report changes. The EM&V contractor will determine what comments and/or changes are incorporated into the final draft EM&V Report.
- Any designated stakeholders that have concerns with the final draft EM&V Report will provide the Company, KCC Staff and all other stakeholders, and the EM&V contractor written comments within twenty (20) days from issuance of the final draft EM&V Report.
- The EM&V contractor will issue a final EM&V Report within fifteen (15) days following the expiration of the comment period on the final draft EM&V Report. Such Final EM&V Report will be filed with the Commission.

2.4 Evaluations /Reported Savings / Tracking Systems

A complete and consistent tracking system for all KEEIA programs will be maintained as a central repository of program activities recorded by the various program implementers. The values in the tracking system will be used for reporting ex ante savings, customer counts, and rebate amounts in the EM&V contractor's reports. Records stored in the tracking system are the basis of the EM&V contractor's sample selection processes. Additionally, tracking systems will reflect quality-assurance protocols. Consumer confidentiality will be properly maintained by implementors and the EM&V contractor when developing, maintaining, and using the tracking data.

2.4.1 Gross Impact Evaluation

Impact evaluations determine program-specific benefits, which include reductions in electric energy usage and electric demand. Successful impact evaluations assess the costs incurred with the value received and balance the level of evaluation detail (rigor) with the level of effort (cost) required. Non-energy benefits (NEB's), such as avoided air emissions, job creation and local economic development, that can be attributed directly to energy efficiency and demand response programs will also be considered.

One of the primary objectives of an impact evaluation is to report ex post savings, which are the evaluated savings achieved by the program as determined by the independent third-party EM&V contractor, in accordance with appropriate savings protocols described in the approved EM&V plan. The EM&V contractors and the implementation contractors will use the same savings protocol, which should be the reported savings value, either determined through custom calculations or deemed via the TRM. The evaluator's role is then to verify those savings, adjusting for factors such as:

- Equipment usage
- Installation rate
- Building conditions
- Equipment baseline conditions

If needed, mainly for custom type projects, the EM&V contractor will conduct independent end-use level measurements for high-impact and high-uncertainty projects.

For program evaluations that rely on sampling, these independent estimates will typically be compared to the claimed savings for a sample of sites within each program to calculate a realization rate. This realization rate is then applied to the population of participants to determine the verified gross savings. When appropriate, the collective results of these EM&V impact evaluations also will be used to provide updates to the kWh and kW savings in the TRM so that the next TRM version reflects the latest available information on measure and program savings.

The EM&V contractor will use various impact evaluation approaches based on the project size and characteristics. Overall EM&V approaches that could be used include the following listed generally from least rigorous and costly to the most:

1) Deemed savings
2) Engineering analysis (with or without desk reviews)
3) Surveys (to verify baseline, building, and installations)
4) Billing / consumption analysis
5) On-site / remote verification
6) Metering (short-term to long-term)

Energy and demand savings may also be a verification-only analysis. With the objective of confirming that measures are installed and operational, and the installation meets required standards. Installation verification should be conducted for a random sample of projects claiming energy savings. Verification may occur in person, over the phone, or via a review of project documentation. For each residential program, EM&V plans should specify whether onsite inspections are planned, and if so, whether EM&V contractors, or implementation contractors, will conduct these inspections.

The basic level of EM&V examination for the gross demand impact specifies that, at a minimum, on-peak demand savings be estimated based on the allocation of gross energy savings through the use of allocation factors, coincidence factors, or end-use load shapes during the peak hours on non-holiday weekdays. For TRM deemed measures, TRM deemed coincidence factors are to be used. Increased EM&V rigor for the gross demand impact will likely require primary data from the program participants.

A higher level of EM&V effort would involve verification of participation and measures installed with TRM savings algorithms, using documented site data without onsite measurement. An even higher level of evaluation rigor is the use of simple engineering models or straightforward algorithms, with onsite measurement. Increased levels of rigor will utilize engineering approaches, including IPMVP protocols as appropriate, additional site-specific data such as

equipment baseline and consumption data, metering studies, retrofit isolation engineering models, billing regression analysis, or building energy simulation model(s).

This consumption data could be billing data, AMI interval-metered data, Energy Management System (EMS), or field measurement. If the methodology and data used can readily provide an 8760 savings profile, one should be calculated for the project. EM&V use of AMI offers the potential to provides a number of functions such as the ability to measure electricity use, connect and disconnect service, detect tampering, identify, and isolate outages, and monitor voltage automatically and remotely. Combined with customer technologies, such as in-home displays and programmable communicating thermostats, AMI also enables utilities to offer new time-based rate programs and incentives that encourage customers to reduce peak demand and manage energy consumption and cost. The EM&V function can potentially utilize advanced measurement and valuation techniques coupled with AMI data, such as AMI disaggregation. For example, disaggregation of AMI data allows identifying individual appliances in a customer's home and knowing which are running inefficiently or too long.

2.4.2 Net Impact Evaluation

As indicated above, net savings is an important energy evaluation metric, reflecting savings attributable to program interventions, both tracked and untracked. Net savings are also useful to help with program design and planning, and will inform TRM updates, and benefit-cost analysis. The EM&V contractor will conduct NTG research, with additional data gathering to assess market conditions and market effects to determine net savings. NTG research can place more focus on attribution, which is adjusting gross savings to reflect actual program influence on savings and explaining customer decision-making and the contribution the program made to the customer's decision to install an energy-efficient measure. Net (kWh and kW) savings attributed to KEEIA programs will be used for the calculation of EO during the four-year cycle.

The EM&V Contractor will measure the following components of net savings, provided by the Uniform Methods Project, to calculate net savings.

- Free ridership (FR): The program savings attributable to free riders (i.e., program participants who would have implemented a program measure or practice in the absence of the program).
- Participant spillover (PSO): The additional energy savings that are achieved when a program participant -- as a result of the program's influence --installs EE measures or practices outside the efficiency program after having participated.
- Non-participant spillover (NPSO): The additional energy savings that are achieved when a non-participant implements EE measures or practices as a result of the program's influence (e.g., through exposure to the program) but is not accounted for in program savings.

The EM&V Contractor will develop a NTG measurement approach for each program, and following the guidance established and approved by Evergy and stakeholder groups. EM&V

contractors traditionally use one of several methods to assess a program's net savings, including self-report surveys and interviews with participating and nonparticipating customers, participating and nonparticipating trade allies, and statistical and econometric methods. When conducting NTG research, the methods require year-over-year consistency allowing the Company program to staff to use these metrics to inform analysis, and plan and incorporate necessary changes for program performance improvements. This research, review, and updating helps to determine whether a program should be modified, expanded, or eliminated based on its net-to-gross ratio (defined as the proportion of savings attributable to the program).

2.4.3 Process Evaluation

The purpose of process evaluation is to determine assess, document, report, and advise on a program's effectiveness (internal and external to the company) and drivers of impacts. It reviews the program's progress toward goals and customer experiences. As with impact evaluations, process evaluations are designed and systematically implemented according to a scope of work, ensuring unbiased and useful results.

The process evaluation consists of in-depth examinations of the design, administration, delivery /implementation, and market response to DSM programs. As with all evaluations, a process evaluation should address the specific program goals, and primarily serve the Company's program staff. Below are examples of how decision-makers can use the results of process evaluations:

- Improve program performance with respect to internal administration and communications, promotional practices, program delivery, incentive/rebate levels, and data management
- Provide a means of improving customer satisfaction and identifying market threats and opportunities
- Provide information to KCC and other stakeholders that programs are being implemented effectively and modified or refined as necessary

Process evaluations use program data, secondary data, document review, and different types of one-on-one or group interviews and surveys to gather information to assess programs. The design for each process evaluation should begin with the program's original design intent and should provide evidence of program progress in achieving its goals and objectives from the perspective of the program's various target audiences. Process evaluations help to:

- Highlight areas of program success and challenges
- Make recommendations for program modification and improvement
- Identify best practices that can be implemented in the future

Each process evaluation should have a detailed plan that describes the objectives, sampling plan, research activities, and specific issues to be addressed, along with a schedule of milestones and deliverables. All DSM programs should have at least one process evaluation in every cycle or phase. The process evaluation may be either an in-depth, comprehensive process evaluation or one of several types of focused process evaluations. Ideally process evaluations should be timed to coincide with decision-making for program design and implementation.

2.4.4 Cost-Effectiveness

Results from the EM&V Contractor's evaluation activities, evaluation reports, impact evaluations, and surveys will be input into cost effectiveness models to assess the Company's efforts at the program and portfolio levels. Efficiency has historically been assessed via tests such as, or similar to those, defined in the California Standard Practice Manual, or in some cases through the IRP process.

In accordance with the KCC's requirements for determining cost-effectiveness, the Company's KEEIA DSM programs will be primarily evaluated based on the Total Resource Cost (TRC) Test. The TRC Test as a standard test that is met if, the net present value of the avoided monetary cost of supplying electricity is greater than the net present value of the monetary cost of energy efficiency conservation measures. The TRC Test also reflects the benefit to implementing an energy efficiency program throughout the Company's service territory.

In addition, Evergy recognizes the importance of minimizing increases in customer bills. Accordingly, the Company will also emphasize use and review of two other accepted tests: The Ratepayer Impact Measure (RIM) Test and the Utility Cost Test (UCT). The RIM test provides stakeholders with information regarding the effect on customer bills or rates that may occur if a KEEIA energy plan is implemented. The UCT test measures the change in the amount the Company must collect from customers every year to meet an earnings target (e.g., a change in revenue requirement). Other accepted tests to be conducted are the Participant Cost Test (PCT), and Societal Cost Test (SCT). The PCT measures the economic impact to the participant of adopting an energy efficiency measure; the SCT measures whether the benefits of a DSM resource will exceed its costs from the perspective of society as a whole.

These five tests provide an all-encompassing perspective on the programs' annual cost effectiveness, as well as the cost effectiveness of the program over the portfolio cycle. The TRC and SCT cost tests help to answer whether energy efficiency is cost-effective overall. The PCT, UCT, and RIM help to answer whether the selection of measures and design of the program is balanced from participant, utility, and non-participant perspectives, respectively. The cost effectiveness model(s) should contain all inputs and outputs to the benefit/cost ratio(s). Key inputs include:

- Discount rate
- Line loss factors
- Avoided costs of generation energy and capacity as well as T&D avoided costs
- Incremental measure costs
- Program administration costs
- Verified savings
- Effective useful life of measures or measure groups
- End-use load shapes or on-peak/off-peak ratios used in benefit calculations
- Non-Energy benefits associated with program implementation or participation.

Program administrative costs, avoided cost data, retail rates, and discount rates, will be provided by the Company.

Attachment 1. Glossary of Terms

ACCURACY: An indication of how close a value is to the true value of the quantity in question. The term also could be used in reference to a model or a set of measured data, or to describe a measuring instrument's capability.

AVOIDED COSTS: These are the costs that are avoided by the implementation of an energy efficiency activity. Such costs are used in benefit-cost analyses of energy efficiency activities. Because efficiency activity reduces the need for electric generation, these costs include those associated with the cost of electric generation, transmission, distribution, and reliability. Typically, costs associated with avoided energy and capacity are calculated

BASELINE: Conditions, including energy consumption and demand, which would have occurred without implementation of the subject energy efficiency activity. Baseline conditions are sometimes referred to as "business-as-usual" conditions and are used to calculate project- and program-related savings.

BENEFIT/COST RATIO: The mathematical relationship between the benefits and costs associated with the implementation of energy efficiency measures, programs, practices, or emission reductions. The benefits and costs are typically expressed in dollars.

BIAS: The extent to which a measurement or a sampling or analytic method systematically underestimates or overestimates a value.

BILLING DATA: Data obtained from the electric or gas meter that is used to bill the customer for energy used in a particular billing period. In an evaluation context, billing data also refers to the customer billing records over time. Those records are used to conduct analyses of energy use before and after implementation of energy efficiency measures.

BUILDING ENERGY SIMULATION MODEL: A building energy simulation model combines building characteristic data and weather data to calculate energy flows. While hourly models calculate energy consumption at a high frequency, non-hourly models may use simplified monthly or annual degree-day or degree-hour methods.

CAPACITY: The amount of electric power for which a generating unit, generating station, or other electrical apparatus is rated by either the user or manufacturer.

COINCIDENT DEMAND: The demand of a device, circuit, or building that occurs at the same time as the peak demand of a utility's system load or at the same time as some other peak of interest, such as building or facility peak demand.

CONFIDENCE: An indication of how close a value is to the true value of the quantity in question. A confidence interval is a range of values that is believed—with some stated level of confidence—to contain the true population quantity. The confidence level is the probability that the interval contains the target quantity.

CONSERVATION: Steps taken to cause less energy to be used than would otherwise be the case. These steps may involve improved efficiency, avoidance of waste, and reduced

consumption. Related activities include installing equipment (such as a computer to ensure efficient energy use), modifying equipment (such as making a boiler more efficient), adding insulation, and changing behavior patterns.

COST-EFFECTIVENESS: An indicator of the relative performance or economic attractiveness of any energy efficiency investment or practice when compared to the costs of energy produced and delivered in the absence of such an investment. In the energy efficiency field, the term refers to the present value of the estimated benefits produced by an energy efficiency program as compared to the estimated total program costs, from the perspective of either society as a whole or of individual customers, to determine if the proposed investment or measure is desirable from a variety of perspectives, such as whether the estimated benefits exceed the estimated costs.

CUSTOMER INFORMATION: Non-public information and data specific to a utility customer that the utility acquired or developed during its provision of utility services.

DEEMED SAVINGS: Technical Reference Manuals (TRM) provide deemed savings values that represent approved estimates of energy or demand savings for a single unit of an installed energy efficiency measure that (1) has been developed from data sources and analytical methods that are widely considered acceptable for the measure and purpose, and (2) is applicable to the situation being evaluated.

DEMAND: The time rate of energy flow. Demand usually refers to electric power and is measured in kW (equals kWh/h) but can also refer to natural gas, usually as Btu/hr., kBtu/hr., therms/day, or ccf/day.

DEMAND RESPONSE (DR): The reduction of consumer energy use at times of peak use in order to help system reliability, reflect market conditions and pricing, or support infrastructure optimization or deferral of additional infrastructure. Demand response programs may include contractually obligated or voluntary curtailment, direct load control, and pricing strategies.

DEMAND SAVINGS: The reduction in the demand from the pre-retrofit baseline to the post-retrofit demand, once independent variables (such as weather or occupancy) have been adjusted for. This term usually is applied to billing demand to calculate cost savings, or to peak demand for equipment sizing purposes.

DEMAND SIDE MANAGEMENT (DSM): The methods used to manage energy demand, including energy efficiency, load management, fuel substitution, and load building.

END-USE: Refers to a broad category of related measures. Examples of end-use categories include refrigeration, food service, HVAC, appliances, building envelope, and lighting.

ENERGY CONSUMPTION: The amount of energy consumed in the form in which it is acquired by the user. The term excludes electrical generation and distribution losses.

ENERGY EFFICIENCY: Applied to the use of less energy to perform the same function, and programs designed to use energy more efficiently. “Energy conservation” is a related term, but it has the connotation of “doing without in order to save energy” rather than “using less energy to perform the same function”; it is used less frequently today. Many people use these terms interchangeably.

ENERGY EFFICIENCY MEASURE: A set of actions and/or equipment changes that result in reduced energy use -- compared to standard or existing practices -- while maintaining the same or improved service levels.

ENERGY MANAGEMENT SYSTEM (EMS): A control system (often computerized) designed to regulate the energy consumption of a building by controlling the operation of energy-consuming systems, such as those for space heating, ventilation, and air conditioning (HVAC); lighting; and water heating.

ENERGY SAVINGS: The reduction in use of energy from the pre-retrofit baseline to the post-retrofit energy use, once independent variables (such as weather or occupancy) have been adjusted for.

ENGINEERING APPROACHES: Methods using engineering algorithms or models to estimate energy and/or demand use.

ENGINEERING MODEL: Engineering equations used to calculate energy usage and savings. These models usually are based on a quantitative description of physical processes that transform delivered energy into useful work, such as heating, lighting, or driving motors. In practice, these models may be reduced to simple equations in spreadsheets that calculate energy usage or savings as a function of measurable attributes of customers, facilities, or equipment (e.g., lighting use = watts × hours of use).

EVALUATION: The performance of studies and activities aimed at determining the effects of a program; any of a wide range of assessment activities associated with understanding or documenting program performance or potential performance, assessing program or program-related markets and market operations; any of a wide range of evaluative efforts including assessing program-induced changes in energy efficiency markets, levels of demand or energy savings, and program cost-effectiveness.

EVALUATION CONTRACTOR: Contractor retained to evaluate energy efficiency and conservation programs and generate ex post savings values for efficiency measures.

EX ANTE SAVINGS: The savings values calculated and collected in the program tracking system and summed to estimate the gross reported impact of a program. Ex ante is taken from the Latin for “beforehand.”

EX POST SAVINGS: The savings values reported by the independent evaluator after the energy impact evaluation and the associated M&V efforts have been completed. Ex post is taken from the Latin for “from something done afterward.”

FREE-RIDER: A program participant who would have implemented the program measure or practice in the absence of the program.

GROSS SAVINGS: The change in energy consumption and/or demand that results directly from program-related actions taken by participants in an efficiency program, regardless of why they participated.

IMPACT EVALUATION: Used to measure the program-specific induced changes in energy and/or demand usage (such kWh/yr., kW) and/or behavior attributed to energy efficiency and demand response programs.

IMPLEMENTATION CONTRACTOR (Implementer): Contractor retained by a Utility to administer a specific DSM program and generate ex ante savings values for efficiency measures.

INCENTIVE. Incentive means any consideration provided by the Company, including buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

INCREMENTAL COST: The difference between the cost of existing or baseline equipment or service and the cost of alternative energy efficient equipment or service.

INTERNATIONAL PERFORMANCE MEASUREMENT AND VERIFICATION PROTOCOL (IPMVP): Defines standard terms and suggests best practice for quantifying the results of energy efficiency investments and increasing investment in energy and water efficiency, demand management, and renewable energy projects.

LOAD MANAGEMENT: Steps taken to reduce power demand at peak load times or to shift some of it to off-peak times. Load management may coincide with peak hours, peak days, or peak seasons. Load management may be pursued by persuading consumers to modify behavior or by using equipment that regulates some electric consumption. This may lead to complete elimination of electric use during the period of interest (load shedding) and/or to an increase in electric demand in the off-peak hours as a result of shifting electric use to that period (load shifting).

LOAD SHAPES: Representations such as graphs, tables, and databases that describe energy consumption rates as a function of another variable, such as time or outdoor air temperature.

MARKET EFFECT EVALUATION: The evaluation of the change in the structure/functioning of a market or the behavior of participants in a market that results from one or more program efforts. Typically, the resultant market or behavior change leads to an increase in the adoption of energy-efficient products, services, or practices.

MEASURE: An installed piece of equipment or system, or modification of equipment, systems, or operations on end-use customer facilities that reduces the total amount of electrical or gas energy and capacity that would otherwise have been needed to deliver an equivalent or improved level of end-use service.

MEASURE LIFE: The length of time that a measure is expected to be functional; sometimes referred to as expected useful life. Measure life is a function of equipment life and measure persistence. *Equipment life* is the number of years that a measure is installed and will operate until failure. *Measure persistence* takes into account business turnover, early retirement of installed equipment, and other reasons measures might be removed or discontinued.

MEASUREMENT: A procedure for assigning a number to an observed object or event.

MEASUREMENT AND VERIFICATION: Activities to determine savings for individual measures and projects. This differs from evaluation, which is intended to quantify program impacts.

METERING: The use of instrumentation to measure and record physical parameters for an energy-use equipment. In the context of energy efficiency evaluations, the purpose of metering is to accurately collect the data required to estimate the savings attributable to the implementation of energy efficiency measures.

MONITORING: Recording of parameters -- such as hours of operation, flows, and temperatures -- used in the calculation of the estimated energy savings for specific end uses through metering.

NET PRESENT VALUE (NPV): The value of a stream of cash flows converted to a single sum in a specific year, usually the first year of the analysis. It can also be thought of as the equivalent worth of all cash flows relative to a base point called the present.

NET SAVINGS: The total change in load that is attributable to an energy efficiency program. This change in load may include, implicitly or explicitly, the effects of free-drivers, free-riders, energy efficiency standards, changes in the level of energy service, participant and nonparticipant spillover, and other causes of changes in energy consumption or demand.

NET-TO-GROSS RATIO (NTGR): A factor representing net program savings divided by gross program savings that is applied to gross program impacts to convert them into net program load impacts.

NON-ENERGY EFFECTS or NON-ENERGY BENEFITS (NEB): The identifiable non-energy impacts associated with program implementation or participation; also referred to as non-energy impacts or co-benefits. Examples of NEBs include avoided emissions and other environmental benefits, productivity improvements, jobs created, reduced program administrator debt and disconnects, and higher comfort and convenience level of the participant.

NONPARTICIPANT: Any consumer who was eligible but did not participate in an efficiency program in a given program year. Each evaluation plan should provide a definition of a “nonparticipant” as it applies to a specific evaluation.

PARTICIPANT: A consumer who received a service offered through an efficiency program, in a given program year. The term “service” is used in this definition to suggest that the service can be a wide variety of services, including financial rebates, technical assistance, product installations, training, energy efficiency information, or other services, items, or conditions. Each evaluation plan should define “participant” as it applies to the specific evaluation.

PEAK DEMAND: The maximum level of metered demand during a specified period, such as a billing month or a peak demand period.

PORTFOLIO: Either (a) a collection of similar programs addressing the same market (e.g., a portfolio of residential programs), technology (e.g., motor efficiency programs), or mechanisms (e.g., loan programs), or (b) the set of all programs conducted by one organization, such as a utility (and which could include programs that cover multiple markets, technologies, etc.).

PRECISION: The indication of the closeness of agreement among repeated measurements of the same physical quantity.

PROCESS EVALUATION: A systematic assessment of an energy efficiency program for the purposes of documenting program operations at the time of the examination and identifying and recommending improvements to increase the program's efficiency or effectiveness for acquiring energy resources while maintaining high levels of participant satisfaction.

PROGRAM: A group of projects, with similar characteristics and installed in similar applications. Examples could include a utility program to install energy-efficient lighting in commercial buildings, a developer's program to build a subdivision of homes that have photovoltaic systems, or a state residential energy efficiency code program.

PROJECT: An activity or course of action involving one or multiple energy efficiency measures, at a single facility or site.

REGRESSION ANALYSIS: Analysis of the relationship between a dependent variable (response variable) to specified independent variables (explanatory variables). The mathematical model of their relationship is the "regression equation."

RELIABILITY: Refers to the likelihood that the observations can be replicated.

REPORTING PERIOD: The time following implementation of an energy efficiency activity during which savings are to be determined.

RIGOR: The level of expected confidence and precision. Greater levels of rigor increase confidence that the results of the evaluation are both accurate and precise.

SIMPLE ENGINEERING MODEL: A category of statistical analysis models that incorporate the engineering estimate of savings as a dependent variable.

SPILLOVER: The energy savings associated with energy efficient equipment installed by consumers who were influenced by an energy efficiency program, but without direct financial or technical assistance from the program. Spillover includes additional actions taken by a program participant as well as actions undertaken by non-participants who have been influenced by the program.

STIPULATED (ALSO DEEMED) VALUES: An energy savings estimate per unit, or a parameter within the algorithm designed to estimate energy impacts that are meant to characterize the average or expected value within the population.

TECHNICAL REFERENCE MANUAL (TRM): A resource document that includes information used in program planning and reporting of energy efficiency programs. It can include savings values for measures, engineering algorithms to calculate savings, impact factors to be applied to calculated savings (e.g., net-to-gross ratio values), source documentation, specified assumptions, and other relevant material to support the calculation of measure and program savings—and the application of

UNCERTAINTY: The range or interval of doubt surrounding a measured or calculated value within which the true value is expected to fall within some degree of confidence.

VALUE OF INFORMATION: A balance between the level of detail (rigor) and the level of effort required (cost) in an impact evaluation.

Attachment 2. EM&V Plan and Timeline

The Company strives to provide useful, impactful, and cost-effective DSM programs. Ongoing analysis of program performance through Evaluation, Measurement & Verification (EM&V) is an important tool to support that goal. No more than five percent of the four-year KEEIA Cycle 1 program portfolio budget will be spent on EM&V. The EM&V Contractor will work with the Company and stakeholders to develop an evaluation plan to determine how best to allocate and utilize the EM&V budget. The plan will address three main areas: process evaluation, impact evaluation and cost effectiveness.

Continuous Improvement of EM&V Approaches

The EM&V plan will follow EM&V best practices and guidance from the US DOE's Uniform Methods Project (UPM), the International Performance Measurement & Verification Protocol (IPMVP), recent EM&V results from MEEIA for its Missouri jurisdictions, and/or other authoritative industry sources and organizations. The Evaluator will also refer to any applicable statewide Evaluation Measurement and Verification Protocols for guidance. Also, the EM&V contractor will utilize emerging methods that offer better information or certainty around EM&V impacts, net savings estimates and process evaluation findings.

Two sound examples of this in KEEIA Cycle 1 include:

- The use of newly developed customer journey mapping techniques that document each program's processes, customer engagement points, and key performance indicators, as well as document the experience from the customer's viewpoint.
- The use of hourly HVAC runtime data to derive impacts and in particular for the programmable thermostat demand response program.

To maximize the value of EM&V resources, the EM&V contractor will utilize emerging methods and best practices in KEEIA Cycle 1. In particular, evaluation activities will consider:

- *Impact Evaluations with AMI Data:* The industry has preferred to measure impacts using actual customer consumption data. This data reflects the combination of technologies and behavior, as it is part of billing systems already being collected. However, use of billing analysis techniques as a whole has been limited due to the traditional periodicity of billing data, generally in the form of just 12 observations annually. The Company began deploying AMI/interval meters in 2015 and are now in position to utilize this data in EM&V impact evaluations during KEEIA Cycle 1. The selected evaluation contractor will consider impact methods that utilize this data, particularly where there can be significant data collection cost savings or accuracy improvements.

- *Fast Feedback Surveys*: These surveys are increasingly used by the industry. The concept is to survey participating customers on a consistent, rolling basis immediately after they participate. By conducting these surveys on an ongoing basis, we receive

more timely and accurate feedback — and can use this information to guide program operations and potential adjustments. Fast feedback surveys evaluate topics such as customer satisfaction with the program, the quality of information provided, baseline assumptions and the impact of rebates on customer decision making, including free ridership

- *Focused/Significant Research.* Historically, the EM&V contractor has performed detailed impact and process evaluations. The Company will work with the EM&V contractor — and the stakeholder group as needed — to identify opportunities to conduct innovative, targeted research to enhance evaluation and improve overall portfolio — and specific program — design and processes. This may include the EM&V contractor:
    - identifying opportunities to improve tracking of data, energy modeling and secondary research of other applicable evaluations or studies completed.
    - conducting supplemental research to identify best performance by comparable utilities. The EM&V contractor's research may include identifying best performing program or portfolios, along with providing its experience and understanding of best practices obtained from other portfolio evaluations if/as available.
    - identifying opportunities to enhance estimates of free ridership and spillover, and/or adjust methods and algorithms for savings calculations.

Requests for additional research throughout the program year can be identified and made by the Company, the stakeholders and/or the EM&V contractor. Reallocation of some funds from standard verification work may be necessary to support this effort.

Early Evaluation Results and Feedback

To assist in continuous improvement of programs, the EM&V contractor will provide the Company with interim, preliminary process and impact evaluations as appropriate. This interim feedback will enable the Company to make timely, in-cycle changes to maximize customer satisfaction and energy impacts. This interim reporting would include early results and/or feedback and would be provided to the Company in a manner and timeframe that allows for corrections, as needed. This interim feedback could be in the form of periodic ad-hoc reports, memorandums, dashboards, presentations, and/or conference calls.

The EM&V Contractor will work with the Company, the stakeholders, and the Commission's independent EM&V Auditor (Auditor) to establish a schedule of monthly or regular meetings whereby program results can be provided and discussed before the EM&V draft is issued. This reporting will likely be conducted via conference calls, virtual meetings, etc. in a format in which specific results can be readily viewed, discussed and open issues resolved. The stakeholder group is encouraged to provide comments during this process, as providing comments and recommendations earlier to the EM&V contractor will allow more time for research of open items as well the incorporation of comments and changes to the draft and final report.

EM&V Reports and Timeline

EM&V reports will be completed for each year of the KEEIA program cycle. The evaluators will provide the stakeholder participants with a copy of the draft and the final EM&V reports.

The EM&V report will provide the energy savings and demand reductions for each of our KEEIA programs. The report will include the results of analyses conducted and methods used to evaluate, measure, and verify the energy and demand savings achieved, along with the approaches used for savings analyses. The report will include a summary of process evaluation and will provide details regarding the impact methodologies and results as well as significant process findings and recommendations.

The reporting period schedule will include when reports and supporting documents are due, at an agreed upon date after the end of the program year. A proposed reporting schedule is as follows and in the table that follows:

- The EM&V contractor will circulate a draft EM&V report to KCC Staff and designated stakeholders one hundred twenty (120) days after the end of the first year following the effective date of the programs.
- Approximately sixty (60) days after issuance of the draft EM&V Report, KCC Staff and stakeholders will provide any comments and recommendations for report changes to the EM&V contractor and to KCC Staff and all other Stakeholder Group participants.
- A final draft EM&V Report will be provided by the EM&V contractor to KCC Staff and stakeholders thirty (30) days after the deadline for comments and recommendations for report changes. Prior to issuing the final draft EM&V Report, the EM&V contractor will host at least one meeting with KCC Staff and stakeholders to discuss the comments and recommendations for report changes. The EM&V contractor will determine what comments and/or changes are incorporated into the final draft EM&V Report.
- Any designated stakeholders that have concerns with the final draft EM&V Report will provide the Company, KCC Staff and all other stakeholders, and the EM&V contractor written comments within twenty (20) days from issuance of the final draft EM&V Report.
- The EM&V contractor will issue a final EM&V Report within fifteen (15) days following the expiration of the comment period on the final draft EM&V Report. Such Final EM&V Report will be filed with the Commission.

Table 1: Annual EM&V Timeline (KEEIA Cycle 1 Program Year 1 Example)

# of Days	Projected Date	Description
	12/31/2023	Program Year Ends
	ongoing	EM&V Analysis
	TBD	Conduct update meetings if/as needed
120	04/30/2024	EM&V Draft Report Issued
60	06/28/2024	KCC Staff and Stakeholder comments due
	TBD	Stakeholder meeting to discuss the comments and recommendations for report changes
30	07/30/2024	Final Draft EM&V Report due
20	08/20/2024	Designated stakeholder to provide written comments of any concerns on the final draft EM&V Report to the Company, KCC Staff and all other stakeholders.
15	09/04/2024	Final EM&V Report due

EM&V Impact Findings

The calculation of the Company's Throughput Disincentive (TD) Adjustment and Earnings Opportunity (EO) will be tied directly to the reporting and application of EM&V impact results. The impact evaluation plan will be designed to enable the Company to continuously improve its tracking of program energy and demand savings and to minimize adjustments from EM&V findings. This will be accomplished through annual updates to its Technical Resource Manual (TRM) for "prescriptive" measures and analysis methods and assumptions for "custom" measures. Updates and recommendations will be based on:

- Analysis of hourly or sub-hourly customer load data collected from AMI deployment, program participant devices (i.e. thermostats) and direct on-site measurement of equipment performance metrics (i.e. operation hours, efficiencies, unit sizes, load profiles).
- Parallel-path evaluation for non-prescriptive measures and programs, such as Custom and Home Energy Reports
- Customer surveys and trade ally interviews to understand influences of the program on purchase decisions and behavioral modifications

EM&V Use in the Throughput Disincentive Adjustment Calculation

EM&V will be used for the calculation of the true-up of the TD (both Ex Post Gross and Net to Gross adjustments subject to a floor and a cap) for the purposes of determining Net (kWh and kW) savings attributed to the programs during the three-year cycle.
Each year the EM&V contractor will calculate the Ex-Post Gross program impacts (kW and kWh) and provide recommendations to update the TRM on a prospective basis only.

Also, for the purposes of calculating the TD, any measure installed after a shift in baseline conditions will reflect the baseline shift in the gross and net kWh and kW savings attributable to that measure. The baseline shift will not apply to gross and net kWh and kW savings attributable to any measure installed prior to the baseline shift. For example, if the baseline conditions for LED bulbs change in PY2, the Company would continue to calculate gross and net kWh and kW savings over the entire life of the LED bulbs installed in PY1 at the original baseline conditions. However, any LED bulbs installed in PY2 or later would use the new baseline for gross and net kWh and kW savings for the purposes of calculating the TD.

EM&V Use in the Earnings Opportunity Calculation

EM&V will be used for the calculation of EO for the purposes of determining the Net (kWh and kW) savings attributed to the programs during the four-year cycle.

Each year the EM&V contractor will review the gross and net program impacts and provide recommendations regarding the adjustment of gross and net energy and demand savings. This review will help us improve the design and delivery of the energy efficiency programs.

At the end of each year of the four-year KEEIA cycle, the EM&V contractor will determine the net energy and demand savings we will use to calculate the EO.

Also, for the purposes of calculating the Earnings Opportunity, any measure installed after a shift in baseline conditions will reflect the baseline shift in the gross and net kWh and kW savings attributable to that measure. The baseline shift will not apply to gross and net kWh and kW savings attributable to any measure installed prior to the baseline shift. For example, if the baseline conditions for LED bulbs change in PY2, the Company would continue to calculate gross and net kWh and kW savings over the entire life of the LED bulbs installed in PY1 at the original baseline conditions. However, any LED bulbs installed in PY2 or later would use the new baseline for gross net kWh and kW savings for the purposes of calculating the Earnings Opportunity.

Table 2: Evaluation, Measurement & Verification Update Status of Inputs to Establish Earnings Opportunity and Throughput Disincentive Adjustment

Earnings Opportunity and Throughput Disincentive Inputs Status			
Category	When is it updated?	Who updates?	Description
Net kWh/kW Savings	Ex Post Gross evaluated savings calculated after program years Net to Gross Ratio savings calculated after each year of the program cycle	Initially developed by EM&V Contractor subject to feedback from parties in case and approval from Commission	Ex Post Gross Energy and demand savings per measure. Net Savings = NTG Ratio * Ex Post Gross Savings
Net To Gross ("NTG") Ratio	Annually by program for use on prospective basis only	Initially developed by EM&V Contractor subject to feedback from parties in case and approval from Commission	NTG Ratio = 1 - Free ridership rate + participant spillover rate + non-participant spillover rate
Technical Resource Manual (TRM)	Annually on prospective basis only	Company based on data provided by EM&V contractor	Listing of annual kWh/kW measure savings and incremental costs
Earnings Opportunity Award	Annually after post EM&V finalization	Company including data (Net kWh/kW savings) provided from EM&V contractor	Utilizing the Earnings Opportunity Matrix and detailed descriptions of metrics and how to calculate achievement

Appendix E. Financial Recovery Model Details / Earnings Opportunity Matrix

Appendix E provides details of the financial recovery model that Evergy used to determine rate impacts and earnings opportunities. Specifically discussed below are the rider details, the rider components, the throughput disincentive, the earnings opportunity award, rate case energy efficiency annualization and KEEIA labor cost approach.

Rider Details

Rate Calculation

The proposed EER for KEEIA 2023 – 2026 DSM Portfolio reflects the retroactive recovery of KEEIA portfolio costs and TD, including applicable carrying costs, plus an EO award following final EM&V. The rate to be charged to residential and non-residential classes will be determined by dividing the total of the program costs plus TD for residential and business classes for the annual program period by the projected energy (kWh) sales for each class, excluding lighting classes, over the subsequent 12-month recovery period of July through June. The Rider will include subsequent true-ups to match billed revenues to the costs and TD. The KEEIA 2023 – 2026 DSM Portfolio EO will be included as a component of recovery in the EER following each annual EM&V. An EO dollar amount is not expected to be included in the EER until July 2025. Once earned, the EO will be collected through the EE rate over a 12-month period. The EER charge is applicable to all Evergy Kansas Retail Rate Classes with the exception of Lighting Rate Classes.

Monthly Carrying Costs

Monthly carrying costs will be calculated for the monthly cumulative over- and under- monthly balances for KEEIA program costs, TD and any EO award. The monthly carrying cost rate will be the Company's monthly pretax weighted average cost of capital from its most recent rate case.

Rider Components

Program Costs

The Plan includes KEEIA program costs which are based on the planned budgets for the 9 KEEIA programs (4 residential, 4 business and 1 pilots incubator) to be delivered over approximately 48 months beginning January 1, 2023, and ending December 31, 2026, including final close out cost for implementation services, incentives and EM&V costs incurred in 2027. Actual program costs will include the incremental cost of planning, developing, implementing, monitoring, and evaluating demand-side programs. General administrative costs will be included on the basis of the estimated budget for each program. Indirect costs associated with DSM programs, including but not limited to costs of a market potential study, marketing, and/or education be included in the program costs.

Evergy follows Generally Accepted Accounting Principles (GAAP) for financial accounting. GAAP encompasses the conventions, rules, and procedures necessary to define accepted accounting practice at a particular time. Further, Evergy maintains their books and records in

accordance with the Federal Energy Regulatory Commission's (FERC) Uniform System of Accounts.

Evergy will utilize FERC Account 182 Regulatory Asset to track direct KEEIA related program costs, including direct labor incurred in support of KEEIA programs and related payroll taxes and benefits loadings.

Evergy has established an accounting distribution coding system for the proper classification of program costs for KEEIA-related DSM programs. The accounting distribution utilizes the following components:

- Account – The prescribed accounts mandated by FERC in the Code of Federal Regulations for the classification of assets, liabilities, revenues and expenses.
- Department – A code assigned to specific operational areas to identify the group responsible for the cost.
- Operating Unit – The operating unit identifies the jurisdiction associated with the cost.
- Project ID – The project id identifies the KEEIA program associated with the cost.
- Work ID – Additional codes to further specify the type of work or specific purpose for the cost.
- Resource – Identifies types of costs used to complete projects, or what was used to get the work done. A primary example would be labor vs. non-labor items.

Taken in their entirety, the combination of codes above will allow for the proper classification and clear delineation of costs. These codes will be expanded as needed to accommodate the programs included in this KEEIA filing.

Throughput Disincentive (TD)

The Plan includes estimated TD based on targeted participation in the KEEIA 2023 – 2026 DSM portfolio. TD will be computed monthly in the following manner.

1. The net deemed kWh savings will be reflected in the TD by multiplying the estimated net kWh savings times the incremental rate for the respective class. When a rate case occurs during the program life, the cumulative kWh and kW savings will be included in the test period to reflect actual energy and demand savings in the weather-normalized/customer annualized unit sales and sales revenues used in setting the revenue requirements in the case. This will result in establishing a rebased level to re-start the kWh and kW savings for the TD to be included through the remainder of the program period. Evergy will use billing determinants from the last rate cases to establish incremental rates.

2. Estimated kWh savings by month by program will be determined as follows:

   i. The number of standard measures installed each month will be multiplied by the annual kWh savings per measure and the NTG factor defined in the TRM attached as Appendix D to determine the savings for measures installed by month aggregated by program to which such measures belong, the savings for custom measures will be determined based on the historic participation and savings in other Evergy territories.

   ii. The total kWh savings for the current month aggregated by program in (i) above will be multiplied by 50 percent to reflect an assumed mid-month installation.

iii. Each month total kWh savings by program will be accumulated from the beginning of the cycle through the preceding month.

iv. The sum of items (ii) and (iii) above will be multiplied by the monthly load shape percentage for the applicable month by program attached as Appendix J to determine monthly kWh savings.

v. Monthly kWh savings resulting from the Home Energy Education program will be reported monthly by the implementer.

vi. The sum of the monthly kWh savings determined in (iv) and (v) above will be multiplied by the incremental rate by customer class to determine monthly TD.

vii. Annual kWh savings and NTG factor per measure will be updated prospectively no later than 24 months after the commencement of the Plan based on EM&V ex post gross adjustments determined for Year 1.

The applicable accounting standard which most directly addresses the requirements for the recognition of revenues under such alternative revenue programs is Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 980-605-25 “Alternative Revenue Programs”. ASC 980-605-25 sets three conditions for revenues resulting from alternative revenue programs such as the EER.

First, the program must be established by order of the regulatory commission allowing for automatic adjustment of future rates. Second, the amount of revenue for the period must be objectively determinable and probable of recovery. Lastly, the revenues must be collected within 24 months of the period in which they are recognized. If the TD is subjected to subsequent recalculation, Evergy would not be able to recognize the revenue in the periods that sales were reduced which would not result in alignment of utility financial incentives.

Earnings Opportunity (EO) Award

In order to align Evergy’s interests with “helping its customers use energy more efficiently and in a manner that sustains or enhances such customers’ incentives to use energy more efficiently” Evergy proposes an EO award based on performance towards metrics. The value of the earnings opportunity is a hybrid with a fixed target dollar values based on two methods, % of budgeted spend and % of projected net shared benefits.

For the programs that are focused on public benefit (Education and Hard-to-Reach programs), Evergy proposes that the value for metrics 1 and 2 as shown in the Appendix E tables be based on a percentage of budgeted program costs for the sector, specifically 5%.

For the programs that drive energy and demand savings (Efficiency and Demand Response programs), Evergy proposes the value of metrics 3, 4 and 5 to be based on a fixed value of the percentage of net shared benefits created by those programs, specifically 18%. In this case, net shared benefits is defined as the utility cost test net benefits.

The proposed EO recognizes the value of energy (kWh) and demand (kW) savings, as well as providing energy savings opportunities to hard-to-reach customers. The KEEIA 2023 – 2026 DSM Portfolio EO award at 100 percent of target is 22 million for Evergy, The EO matrix shown in Appendix E tables shows the mechanism by which Evergy will earn the EO. Except for the Education and Hard-to-Reach programs (metrics 1 and 2), the EO will be earned proportionally to the actual kWh and kW achieved as determined by the EM&V evaluator including ex post gross and NTG adjustments.

Rate Case Energy Efficiency Annualization

Upon filing a rate case, the cumulative, annualized, normalized kWh and kW savings through the test period will be included in the unit sales and sales revenues used in setting rates the test year to reflect energy and demand savings in the billing determinants and sales revenues used in setting the revenue requirements and tariffed rates in the case. Upon the adjustment for kWh and kW savings in a rate case, the collection of TD will be re-based.

- Test period weather-normalized kWh usage for each customer class by billing month will be adjusted by:
  - Adding back the monthly kWh energy savings by customer class incurred during the test period from all active KEEIA programs determined using the same methodology as described in the EER, except that calendar month load shape percentages by program by month will be converted to reflect billing month load shape percentages by program by computing a weighted average of the current and succeeding month percentages.
- The adjusted test period sales from above will be annualized for customers and additionally be adjusted further by:
  - Subtracting the cumulative annual kWh energy savings from the first month of the test period through the end of the test period by customer class from all active KEEIA programs except that calendar month load shape percentages by program by month are converted to reflect billing month load shape percentages by program by computing a weighted average of the current and succeeding month percentages.
- Test period kW demand for each customer class will be adjusted by:
  - Adding back the monthly kW demand savings by customer class incurred during the test period from all active KEEIA programs determine using the same methodology as described for kWh savings in the EER and then:
    - Subtracting the cumulative annual kW demand savings from the first month of the test period through the test period by customer class from all active KEEIA programs determined using the same methodology as described for kWh savings in the EER.

TD will continue to be calculated and recovered until such time as a rate case is filed subsequent to the end of the KEEIA 2023 – 2026 DSM Portfolio with a test period ending at or after the end of the KEEIA 2023 – 2026 DSM Portfolio.

KEEIA Labor Cost Approach

Evergy's internal labor costs associated with KEEIA implementation will be included in the proposed EER until such time the internal labor can be included in cost of service in a general rate case. Job functions included with EER recovery will solely be related to the energy efficiency activities of KEEIA and their salaries are not currently in Evergy's base rates. The Company estimates that an incremental 8-10 FTE will be needed at steady state to deliver the programs in Kansas. The budget associated with these FTE during the period before they are recovered in base rates are reflected in the individual program administration budget line items.

Evergy Kansas Central KEEIA 2023-2026 DSM Portfolio EO Matrix									
No.	**Metric**	**Programs**	**Target**	**Target Unit**	**2023-2026 EO Target**	**EO Amount per Target Unit**	**$/Unit**	**Cycle EO Cap %**	**2023-2026 EO Cap**
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$561,983	$561,982.97	$	100%	$561,983
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$1,344,760	$1,344,760.15	$	100%	$1,344,760
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	161,484	MWh	$3,676,301	$22.77	$/MWh	125%	$4,595,376
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	58	MW	$6,617,342	$113,283.02	$/MW	125%	$8,271,678
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	109	MW	$4,411,561	$40,534.04	$/MW	125%	$5,514,451
	Total Forecasted Earnings Opportunity				**$16,611,947**				**$20,288,248**

Evergy Kansas Central KEEIA 2023-2026 DSM Portfolio EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

Evergy Kansas Metro KEEIA 2023-2026 DSM Portfolio EO Matrix

No.	Metric	Programs	Target	Target Unit	2023-2026 EO Target	EO Amount per Target Unit	$/Unit	Cycle EO Cap %	2023-2026 EO Cap
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$173,026	$173,026.17	$	100%	$173,026
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$442,081	$442,081.48	$	100%	$442,081
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	68,986	MWh	$1,344,048	$19.48	$/MWh	125%	$1,680,060
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	22.985	MW	$2,419,287	$105,255.75	$/MW	125%	$3,024,109
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	46.668	MW	$1,612,858	$34,560.10	$/MW	125%	$2,016,073
	Total Forecasted Earnings Opportunity				**$5,991,301**				**$7,335,349**

Evergy Kansas Metro KEEIA 2023-2026 DSM Portfolio EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

Appendix F. EER Tariff Sheets

ENERGY EFFICIENCY RIDER
(LEGACY ENERGY EFFICIENCY AND DEMAND RESPONSE PROGRAMS)

APPLICABLE

This Energy Efficiency Rider shall be applicable to all retail rate schedules of Evergy Kansas Central and Evergy Kansas South with the exception of Security Area Lighting Service, Street Lighting and Traffic Signal rate schedules.

PURPOSE

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. 08-GIMX-441-GIV and is designed to recover costs associated with Commission approved Energy Efficiency and Demand Response Programs deferred but not recovered. This Rider will be effective with the first billing cycle of November 2020 through the last billing cycle in October 2021. Evergy Kansas Central will file a new Energy Efficiency Rider for Commission approval in July 2021.

BASIS FOR CHARGE

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

ENERGY EFFICIENCY RIDER
(LEGACY ENERGY EFFICIENCY AND DEMAND RESPONSE PROGRAMS)

ENERGY EFFICIENCY RIDER AMOUNT CALCULATION

The initial EE factor will be calculated to recover actual program costs deferred for Commission approved Energy Efficiency programs deferred over a 12-month period ending in June of each year plus any true up amount from the prior period divided by the total applicable kWh as follows:

EE factor = EE costs + True / kWh

Where:

EE costs = The actual costs associated with Commission approved Energy Efficiency programs. These costs are recorded in separate sub-accounts of Account 182.3 Other Regulatory Assets for each approved Energy Efficiency or Demand Response Program and for demand response credits provided to customers under approved Demand Response Programs.

True = The annual true-up amount for an Energy Efficiency Rider year, to be determined prior to filing the next EE Rider and to be applied to the subsequent EE Factor calculation. The true-up will be the difference between the approved recovery amount and the actual recovery amount during the time the EE Factor was in effect.

kWh = The estimated kilowatt-hours for the period this EE factor will be applied to customers' monthly bills.

EE FACTOR

$0.000199 / kWh effective for the billing months of November 2020 through October 2021.

DEFINITIONS AND CONDITIONS

1. All provisions of this Rider are subject to changes made by order of the regulatory authority having jurisdiction.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

TRANSITION FROM LEGACY ENERGY EFFICIENCY PROGRAMS TO KEEIA 2023-2026 DSM PORTFOLIO:

As Evergy Kansas Central transitions from the Legacy Energy Efficiency and Demand Response Programs (Legacy Programs), it is anticipated that Energy Efficiency (EE) Costs in July 2021 through June 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed on July 15, 2022 for recovery over the period from November 2022 through October 2023. Further, EE Costs in the partial year from July 2022 through December 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed on July 15, 2023 for recovery over the period from November 2023 through June 2024.

APPLICABLE

This Energy Efficiency Rider shall be applicable to all non-lighting Retail Rate Schedules of Evergy Kansas Central and Evergy Kansas South. The Energy Efficiency Rider will be calculated and applied separately to Residential and Non-Residential customer classes.

PURPOSE

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. XX-XXXX-XXX-XXX and is designed to recover costs associated with Commission approved KEEIA 2023 – 2026 DSM Portfolio deferred but not recovered and any remaining unrecovered charges from the Company's Legacy Energy Efficiency and Demand Response Programs. Those charges include:

1) Program Costs (PC), Throughput Disincentive (TD), and Earnings Opportunity Award (EO) (if any) for the KEEIA 2023 – 2026 DSM Portfolio and any true-up associated with Legacy Programs. Program Costs (PC) and Throughput Disincentive (TD) will include interest carrying costs at the Company's pretax Weighted Average Cost of Capital (WACC) on the unrecovered balances.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Energy Efficiency Rider and total actual monthly amounts for:

i. Program Costs (PC) incurred.
ii. Throughput Disincentive (TD) incurred.
iii. Amortization of any Earnings Opportunity Award (EO) ordered by the Kansas Corporation Commission (Commission).
iv. Remaining unrecovered amounts associated with Legacy Programs.

BASIS FOR CHARGE

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor for the respective Residential and Non-Residential customer class. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

DEFINITIONS

As used in this Energy Efficiency Rider, the following definitions shall apply:

"Throughput Disincentive" (TD) is meant to represent the utility's lost margins associated with the successful implementation of the KEEIA programs.

"Effective Period" (EP) means the year beginning with January 2023, and each year thereafter until all allowed charges associated with the approved KEEIA 2023 – 2026 DSM Portfolio are recovered.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

"Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the utility's program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.

"Incentive" means any consideration provided by the Company, including buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

"KEEIA 2023 – 2026 DSM Portfolio" consists of the demand-side programs and the Energy Efficiency Rider described in the KEEIA 2023 – 2026 DSM Portfolio Filing, which became effective following Commission order and approval of the KEEIA 2023 – 2026 DSM Portfolio under Docket No. XX-XXXX-XXX-XXX.

"Program Costs" (PC) means any prudently incurred program expenditures, including such items as program planning, program design; administration; delivery; end-use measures and incentive payments; advertising expense; evaluation, measurement, and verification; market potential studies; and other costs necessary to deliver approved programs.

"Earnings Opportunity" (EO) means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

"Recovery Period" (RP) includes the twelve-month period beginning July 1, 2024 through June 30, 2025 and each twelve-month period thereafter.

"Weighted Average Cost of Capital" (WACC) means the return on rate base used to determine the revenue requirement in the Company's most recently completed general rate proceeding.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

DETERMINATION OF ENERGY EFFICIENCY FACTOR RATES

The Energy Efficiency Factor (EE Factor) during each applicable EP is a dollar per kWh rate for each non-lighting rate schedule calculated as follows:

EE Factor = [PC + TD + EO + TRUE]/PE

Where:

PC = Actual Program Costs incurred for the applicable EP. Such amounts shall include monthly interest on cumulative over- or under-balances at the Company's WACC.

TD = Throughput Disincentive is the Company's TD calculated by the Company during the applicable EP. See below for the detailed methodology for calculating the TD. Such amounts shall include monthly carrying costs on cumulative over- or under- balances at the Company's WACC.

EO = Earnings Opportunity is equal to the Earnings Opportunity Award means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Energy Efficiency Rider applies during the applicable RP.

The EE factor components and total EE Factor applicable to the Residential and Non-Residential rate schedules shall be rounded to the nearest $0.00001.

CALCULATION OF TD:

Monthly Throughput Disincentive = the sum of the Throughput Disincentive Calculation for all programs applicable to (1) Residential and (2) Non-Residential customers.

ENERGY EFFICIENCY RIDER

(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Throughput Disincentive Calculation:

The Throughput Disincentive Calculation for each program shall be determined by the formula:

$$TD\$ = MS \times NMR$$

Where:

TD$ = Throughput Disincentive Dollars to be collected for a given calendar month, for a given class.

NMR = Net Margin Revenue. Net Margin revenue values for each class are provided below in the Net Margin Revenue Rates By Rate Class By Month table.

MS = The sum of all Programs' Monthly Savings in kWh, for a given month, for a given class. The Monthly Savings in kWh for each Program shall be determined by the formula:

$$MS = (MASCM + CASPM - RB) \times LS + HEE$$

RB = Rebasing Adjustment. The Rebasing Adjustment shall equal the CAS defined below applicable as of the date used for the KEEIA normalization in any general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio. In the event more than one general rate case resulting in new rates

becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio, the Rebasing Adjustment shall include each and every prior Rebasing Adjustment calculation.

LS = Load Shape. The Load Shape is the monthly load shape percent for each program as follows:

Program Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Whole Business Efficiency	8.117%	7.809%	8.087%	8.291%	9.156%	8.765%	9.264%	8.805%	7.652%	8.337%	8.021%	7.695%	100.000%
Hard-to-Reach Businesses	7.805%	7.539%	7.881%	8.365%	9.589%	9.288%	9.810%	8.999%	7.486%	8.080%	7.742%	7.416%	100.000%
Business Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%
Business Energy Education	8.179%	8.120%	8.098%	8.325%	8.469%	7.799%	8.543%	8.495%	7.907%	9.084%	8.687%	8.294%	100.000%
Whole Home Efficiency	7.414%	6.352%	6.378%	5.881%	7.592%	12.023%	12.404%	12.462%	9.699%	6.203%	6.387%	7.204%	100.000%
Home Energy Education	7.702%	7.150%	8.021%	7.853%	8.530%	8.863%	9.385%	9.398%	8.511%	8.612%	7.952%	8.023%	100.000%
Hard-to-Reach Homes	5.945%	4.702%	3.666%	3.687%	7.312%	16.682%	17.456%	17.112%	11.193%	3.296%	3.617%	5.330%	100.000%
Home Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%

Where:

MC = Measure Count. Measure Count, for a given month, for a given class, for each measure is the number of each measure installed in the current calendar month.

ME = Measure Energy. Measure Energy will be determined as follows, for each Measure:

i. Prior to finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure times the NTG factors defined in the Technical Resource Manual (TRM).

ii. After finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of the KEEIA 2023 -2026

DSM Portfolio).

iii. For Custom Measures the ME will be the annual kWh savings calculated and reported monthly by the program implementers and aggregated by program and by customer class.

MAS = The sum of MC multiplied by ME for all measures in a program in the current calendar month.

ENERGY EFFICIENCY RIDER

(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

CAS = Cumulative sum of MAS for each program for the KEEIA 2023 – 2026 DSM Portfolio

CM = Current calendar month

PM = Prior calendar month

HEE = Monthly kWh savings for the Home Energy Education program measured and reported monthly by the program implementer.

Measure – Energy efficiency measures described for each program in the Technical Resource Manual.

Programs – KEEIA 2023 – 2026 DSM Portfolio programs.

TRM – Commission-Approved Technical Resource Manual updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio.

EARNINGS OPPORTUNITY

The annual KEEIA 2023 – 2026 DSM Portfolio EO Award shall be calculated using the Earnings Opportunity Matrix below. The EO target at 100% is $16,611,947. The EO cannot go above

$20,288,248. The cap is based on current program levels. If Commission-approved new programs are added during the approved program period, the Company may seek Commission approval to have the targets and cap of the EO increase proportionately to the increase in savings targets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

OTHER PROVISIONS

The Company shall file an update to NMR rates by month by class contemporaneous with filing any compliance tariff sheets in any general rate case reflecting the rates set in that case, and the billing determinants used in setting rates in that case.

Annual kWh savings per measure will be updated prospectively in the TRM no later than 24 months after the commencement of the Plan based on EM&V ex-post gross adjustments determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

KEEIA NTG factors will be updated prospectively in the TRM no later than 24 months after the commencement of the Plan based on EM&V net-to-gross percentages for each program determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

FILING

After the initial EE Rider rate adjustment filing, the Company shall make an Energy Efficiency Rider rate adjustment filing by March 31 following each program year to take effect each twelve-month period beginning in July and ending in June under the Term of this Energy Efficiency Rider.

EE Factors for the billing months of July 2024 through June 2025 are as follows:

Residential - $0.00000
Non-Residential - $0.00000

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

NET MARGIN REVENUE RATES BY RATE CLASS BY MONTH

Customer Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential	$0.068283	$0.069851	$0.070796	$0.071254	$0.071239	$0.075142	$0.076291	$0.076222	$0.075656	$0.070259	$0.071159	$0.069320
Non-Residential - SGS	$0.060226	$0.061301	$0.061907	$0.062193	$0.062291	$0.067485	$0.066311	$0.066473	$0.066703	$0.061947	$0.061776	$0.060842
Non-Residential - MGS	$0.020503	$0.020702	$0.020748	$0.020786	$0.020783	$0.026474	$0.026290	$0.026286	$0.026303	$0.020738	$0.020684	$0.020554
Non-Residential - LGS	$0.027825	$0.028206	$0.027435	$0.027418	$0.027157	$0.028306	$0.029339	$0.029061	$0.029783	$0.028756	$0.027686	$0.027959

EARNINGS OPPORTUNITY MATRIX

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL

(Name of Issuing Utility)

SCHEDULE EER

Replacing Schedule EER Sheet 12

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable)

which was filed ~~October 8, 2019~~September 22, 2020

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 12 of 13 Sheets

Evergy Kansas Central KEEIA Cycle 1 EO Matrix

No.	Metric	Programs	Target	Target Unit	Cycle EO Target	EO Amount per Target Unit	$/Unit	Cycle EO Cap %	Cycle EO Cap
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$561,983	$561,982.97	$	100%	$561,983
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$1,344,760	$1,344,760.15	$	100%	$1,344,760
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency	161,484	MWh	$3,676,301	$22.77	$/MWh	125%	$4,595,376
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency	58	MW	$6,617,342	$113,283.02	$/MW	125%	$8,271,678
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	109	MW	$4,411,561	$40,534.04	$/MW	125%	$5,514,451
	Total Forecasted Earnings Opportunity				**$16,611,947**				**$20,288,248**

ENERGY EFFICIENCY RIDER

(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

ANNUAL EARNINGS OPPORTUNITY CALCULATION

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

Public

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL

(Name of Issuing Utility)

SCHEDULE EER

Replacing Schedule EER Sheet 13

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable)

which was filed ~~October 8, 2019~~September 22, 2020

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 13 of 13 Sheets

Evergy Kansas Central KEEIA Cycle 1 EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

Issued December 17 2021
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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL

SCHEDULE EER

(Name of Issuing Utility)

Replacing Schedule EER Sheet 1

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable)

which was filed September 22, 2020

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 12 Sheets

ENERGY EFFICIENCY RIDER
(LEGACY ENERGY EFFICIENCY AND DEMAND RESPONSE PROGRAMS)

APPLICABLE:

This Energy Efficiency Rider shall be applicable to all retail rate schedules of Evergy Kansas Central and Evergy Kansas South with the exception of Security Area Lighting Service, Street Lighting and Traffic Signal rate schedules.

PURPOSE:

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. 08-GIMX-441-GIV and is designed to recover costs associated with Commission approved Energy Efficiency and Demand Response Programs deferred but not recovered. This Rider will be effective with the first billing cycle of November 2020 through the last billing cycle in October 2021. Evergy Kansas Central will file a new Energy Efficiency Rider for Commission approval in July 2021.

BASIS FOR CHARGE:

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

Issued December 17 2021
Month Day Year

Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

ENERGY EFFICIENCY RIDER
(LEGACY ENERGY EFFICIENCY AND DEMAND RESPONSE PROGRAMS)

ENERGY EFFICIENCY RIDER AMOUNT CALCULATION:

The initial EE factor will be calculated to recover actual program costs deferred for Commission approved Energy Efficiency programs deferred over a 12-month period ending in June of each year plus any true up amount from the prior period divided by the total applicable kWh as follows:

EE factor = EE costs + True / kWh

Where:

EE costs = The actual costs associated with Commission approved Energy Efficiency programs. These costs are recorded in separate sub-accounts of Account 182.3 Other Regulatory Assets for each approved Energy Efficiency or Demand Response Program and for demand response credits provided to customers under approved Demand Response Programs.

True = The annual true-up amount for an Energy Efficiency Rider year, to be determined prior to filing the next EE Rider and to be applied to the subsequent EE Factor calculation. The true-up will be the difference between the approved recovery amount and the actual recovery amount during the time the EE Factor was in effect.

kWh = The estimated kilowatt-hours for the period this EE factor will be applied to customers' monthly bills.

EE FACTOR:

$0.000199 / kWh effective for the billing months of November 2020 through October 2021.

DEFINITIONS AND CONDITIONS:

1. All provisions of this Rider are subject to changes made by order of the regulatory authority having jurisdiction.

Issued December (Month) 17 (Day) 2021 (Year)

Effective _____ (Month) _____ (Day) _____ (Year)

By _____

Darrin Ives, Vice President

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

TRANSITION FROM LEGACY ENERGY EFFICIENCY PROGRAMS TO KEEIA 2023-2026 DSM PORTFOLIO:

As Evergy Kansas Central transitions from the Legacy Energy Efficiency and Demand Response Programs (Legacy Programs), it is anticipated that Energy Efficiency (EE) Costs in July 2021 through June 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed on July 15, 2022 for recovery over the period from November 2022 through October 2023. Further, EE Costs in the partial year from July 2022 through December 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed on July 15, 2023 for recovery over the period from November 2023 through June 2024.

APPLICABLE:

This Energy Efficiency Rider shall be applicable to all non-lighting Retail Rate Schedules of Evergy Kansas Central and Evergy Kansas South. The Energy Efficiency Rider will be calculated and applied separately to Residential and Non-Residential customer classes.

PURPOSE:

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. XX-XXXX-XXX-XXX and is designed to recover costs associated with Commission approved KEEIA 2023 – 2026 DSM Portfolio deferred but not recovered and any remaining unrecovered charges from the Company's Legacy Energy Efficiency and Demand Response Programs. Those charges include:

1) Program Costs (PC), Throughput Disincentive (TD), and Earnings Opportunity Award (EO) (if any) for the KEEIA 2023 – 2026 DSM Portfolio and any true-up associated with Legacy Programs. Program Costs (PC) and Throughput Disincentive (TD) will include interest carrying costs at the Company's pretax Weighted Average Cost of Capital (WACC) on the unrecovered balances.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Energy Efficiency Rider and total actual monthly amounts for:

i. Program Costs (PC) incurred.
ii. Throughput Disincentive (TD) incurred.
iii. Amortization of any Earnings Opportunity Award (EO) ordered by the Kansas Corporation Commission (Commission).
iv. Remaining unrecovered amounts associated with Legacy Programs.

BASIS FOR CHARGE:

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor for the respective Residential and Non-Residential customer class. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

DEFINITIONS:

As used in this Energy Efficiency Rider, the following definitions shall apply:

"Throughput Disincentive" (TD) is meant to represent the utility's lost margins associated with the successful implementation of the KEEIA programs.

"Effective Period" (EP) means the year beginning with January 2023, and each year thereafter until all allowed charges associated with the approved KEEIA 2023 – 2026 DSM Portfolio are recovered.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

"Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the utility's program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.

"Incentive" means any consideration provided by the Company, including buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

"KEEIA 2023 – 2026 DSM Portfolio" consists of the demand-side programs and the Energy Efficiency Rider described in the KEEIA 2023 – 2026 DSM Portfolio Filing, which became effective following Commission order and approval of the KEEIA 2023 – 2026 DSM Portfolio under Docket No. XX-XXXX-XXX-XXX.

"Program Costs" (PC) means any prudently incurred program expenditures, including such items as program planning, program design; administration; delivery; end-use measures and incentive payments; advertising expense; evaluation, measurement, and verification; market potential studies; and other costs necessary to deliver approved programs.

"Earnings Opportunity" (EO) means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

"Recovery Period" (RP) includes the twelve-month period beginning July 1, 2024 through June 30, 2025 and each twelve-month period thereafter.

"Weighted Average Cost of Capital" (WACC) means the return on rate base used to determine the revenue requirement in the Company's most recently completed general rate proceeding.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

DETERMINATION OF ENERGY EFFICIENCY FACTOR RATES:

The Energy Efficiency Factor (EE Factor) during each applicable EP is a dollar per kWh rate for each non-lighting rate schedule calculated as follows:

EE Factor = [PC + TD + EO + TRUE]/PE

Where:

PC = Actual Program Costs incurred for the applicable EP. Such amounts shall include monthly interest on cumulative over- or under-balances at the Company's WACC.

TD = Throughput Disincentive is the Company's TD calculated by the Company during the applicable EP. See below for the detailed methodology for calculating the TD. Such amounts shall include monthly carrying costs on cumulative over- or under- balances at the Company's WACC.

EO = Earnings Opportunity is equal to the Earnings Opportunity Award means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Energy Efficiency Rider applies during the applicable RP.

The EE factor components and total EE Factor applicable to the Residential and Non-Residential rate schedules shall be rounded to the nearest $0.00001.

CALCULATION OF TD:

Monthly Throughput Disincentive = the sum of the Throughput Disincentive Calculation for all programs applicable to (1) Residential and (2) Non-Residential customers.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Throughput Disincentive Calculation:

The Throughput Disincentive Calculation for each program shall be determined by the formula:

$$TD\$ = MS \times NMR$$

Where:

TD$ = Throughput Disincentive Dollars to be collected for a given calendar month, for a given class.

NMR = Net Margin Revenue. Net Margin revenue values for each class are provided below in the Net Margin Revenue Rates By Rate Class By Month table.

MS = The sum of all Programs' Monthly Savings in kWh, for a given month, for a given class. The Monthly Savings in kWh for each Program shall be determined by the formula:

$$MS = (MASCM + CASPM - RB) \times LS + HEE$$

RB = Rebasing Adjustment. The Rebasing Adjustment shall equal the CAS defined below applicable as of the date used for the KEEIA normalization in any general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio. In the event more than one general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio, the Rebasing Adjustment shall include each and every prior Rebasing Adjustment calculation.

LS = Load Shape. The Load Shape is the monthly load shape percent for each program as follows:

Program Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Whole Business Efficiency	8.117%	7.809%	8.087%	8.291%	9.156%	8.765%	9.264%	8.805%	7.652%	8.337%	8.021%	7.695%	100.000%
Hard-to-Reach Businesses	7.805%	7.539%	7.881%	8.365%	9.589%	9.288%	9.810%	8.999%	7.486%	8.080%	7.742%	7.416%	100.000%
Business Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%
Business Energy Education	8.179%	8.120%	8.098%	8.325%	8.469%	7.799%	8.543%	8.495%	7.907%	9.084%	8.687%	8.294%	100.000%
Whole Home Efficiency	7.414%	6.352%	6.378%	5.881%	7.592%	12.023%	12.404%	12.462%	9.699%	6.203%	6.387%	7.204%	100.000%
Home Energy Education	7.702%	7.150%	8.021%	7.853%	8.530%	8.863%	9.385%	9.398%	8.511%	8.612%	7.952%	8.023%	100.000%
Hard-to-Reach Homes	5.945%	4.702%	3.666%	3.687%	7.312%	16.682%	17.456%	17.112%	11.193%	3.296%	3.617%	5.330%	100.000%
Home Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%

Where:

MC = Measure Count. Measure Count, for a given month, for a given class, for each measure is the number of each measure installed in the current calendar month.

ME = Measure Energy. Measure Energy will be determined as follows, for each Measure:

i. Prior to finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure times the NTG factors defined in the Technical Resource Manual (TRM).

ii. After finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of the KEEIA 2023 -2026 DSM Portfolio).

iii. For Custom Measures the ME will be the annual kWh savings calculated and reported monthly by the program implementers and aggregated by program and by customer class.

MAS = The sum of MC multiplied by ME for all measures in a program in the current calendar month.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

CAS = Cumulative sum of MAS for each program for the KEEIA 2023 – 2026 DSM Portfolio

CM = Current calendar month

PM = Prior calendar month

HEE = Monthly kWh savings for the Home Energy Education program measured and reported monthly by the program implementer.

Measure – Energy efficiency measures described for each program in the Technical Resource Manual.

Programs – KEEIA 2023 – 2026 DSM Portfolio programs.

TRM – Commission-Approved Technical Resource Manual updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio.

EARNINGS OPPORTUNITY:

The annual KEEIA 2023 – 2026 DSM Portfolio EO Award shall be calculated using the Earnings Opportunity Matrix below. The EO target at 100% is $16,611,947. The EO cannot go above $20,288,248. The cap is based on current program levels. If Commission-approved new programs are added during the approved program period, the Company may seek Commission approval to have the targets and cap of the EO increase proportionately to the increase in savings targets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

OTHER PROVISIONS:

The Company shall file an update to NMR rates by month by class contemporaneous with filing any compliance tariff sheets in any general rate case reflecting the rates set in that case, and the billing determinants used in setting rates in that case.

Annual kWh savings per measure will be updated prospectively in the TRM no later than 24 months after the commencement of the Plan based on EM&V ex-post gross adjustments determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

KEEIA NTG factors will be updated prospectively in the TRM no later than 24 months after the commencement of the Plan based on EM&V net-to-gross percentages for each program determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

FILING:

After the initial EE Rider rate adjustment filing, the Company shall make an Energy Efficiency Rider rate adjustment filing by March 31 following each program year to take effect each twelve-month period beginning in July and ending in June under the Term of this Energy Efficiency Rider.

EE Factors for the billing months of July 2024 through June 2025 are as follows:

Residential - $0.00000
Non-Residential - $0.00000

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL — SCHEDULE EER

(Name of Issuing Utility)

Replacing Schedule EER Sheet 11

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable) — which was filed September 22, 2020

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 11 of 12 Sheets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

NET MARGIN REVENUE RATES BY RATE CLASS BY MONTH:

Customer Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential	$0.068283	$0.069851	$0.070796	$0.071254	$0.071239	$0.075142	$0.076291	$0.076222	$0.075656	$0.070259	$0.071159	$0.069320
Non-Residential - SGS	$0.060226	$0.061301	$0.061907	$0.062193	$0.062291	$0.067485	$0.066311	$0.066473	$0.066703	$0.061947	$0.061776	$0.060842
Non-Residential - MGS	$0.020503	$0.020702	$0.020748	$0.020786	$0.020783	$0.026474	$0.026290	$0.026286	$0.026303	$0.020738	$0.020684	$0.020554
Non-Residential - LGS	$0.027825	$0.028206	$0.027435	$0.027418	$0.027157	$0.028306	$0.029339	$0.029061	$0.029783	$0.028756	$0.027686	$0.027959

EARNINGS OPPORTUNITY MATRIX:

Evergy Kansas Central KEEIA Cycle 1 EO Matrix

No.	Metric	Programs	Target	Target Unit	Cycle EO Target	EO Amount per Target Unit	$/Unit	Cycle EO Cap %	Cycle EO Cap
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$561,983	$561,982.97	$	100%	$561,983
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$1,344,760	$1,344,760.15	$	100%	$1,344,760
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency	161,484	MWh	$3,676,301	$22.77	$/MWh	125%	$4,595,376
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency	58	MW	$6,617,342	$113,283.02	$/MW	125%	$8,271,678
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	109	MW	$4,411,561	$40,534.04	$/MW	125%	$5,514,451
	Total Forecasted Earnings Opportunity				**$16,611,947**				**$20,288,248**

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Darrin Ives, Vice President

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY KANSAS CENTRAL, INC., & EVERGY KANSAS SOUTH, INC., d.b.a. EVERGY KANSAS CENTRAL — SCHEDULE EER

(Name of Issuing Utility)

Replacing Schedule EER Sheet 12

EVERGY KANSAS CENTRAL RATE AREA

(Territory to which schedule is applicable) — which was filed September 22, 2020

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 12 of 12 Sheets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

ANNUAL EARNINGS OPPORTUNITY CALCULATION:

Evergy Kansas Central KEEIA Cycle 1 EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 1

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

which was filed ~~June 30, 2020~~June 29, 2021

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 14 Sheets

ENERGY EFFICIENCY RIDER~~Schedule EE~~
LEGACY ENERGY EFFICIENCY PROGRAMS

AVAILABILITY:

This Energy Efficiency (EE) Rider (Schedule EE) shall be applicable to all non-lighting Kansas Retail Rate Schedules for Evergy Kansas Metro.

PURPOSE:

This EE Rider is designed to recover all costs associated with the following Commission-approved Income-Eligible, Energy Efficiency and Demand Response schedules: (1) IEW; (2) PT; (3) BOC; (4) ER; (5) CHP; (6) NH; (7) RHER; (8) RSTP; and (9) DRI. Evergy Kansas Metro will file a new EE Rider no later than March 31 of each year to recover EE Program costs incurred during the prior calendar year for recovery over the following July through June period.

BASIS:

Program Costs will be recovered using an EE factor applied to each customer's bill. The EE factor will be applied to the customer's usage on a kilowatt-hour basis ($/kWh). Retail customer charges for EE Program Costs are determined by multiplying the kilowatt-hours of electricity billed by the corresponding EE factor. The customer charges associated with this EE Rider will be identified and shown as a separate line on the customer's bill.

ENERGY EFFICIENCY RIDER AMOUNT CALCULATION:

A separate EE factor will be calculated for each customer class based upon the demand allocator and total kWh for each class. The EE factor (EEF) for each customer class will be calculated to recover the Program Costs for approved EE Programs from the specified period plus any applicable true up amount from the prior period by applying a class Demand Allocator and then dividing by the total kilowatt-hours (kWh) for that class as follows:

$$EEF_{(class)} = \frac{(EEC_n + TRUE_{n-1}) \times DA_{(class)}}{KWH_{n\ (class)}}$$

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ENERGY EFFICIENCY RIDER
~~Schedule EE~~LEGACY ENERGY EFFICIENCY PROGRAMS

Where:

EEC_n = All actual costs associated with Commission-approved EE Programs incurred during the applicable time-period (n). These costs are recorded in a deferred regulatory asset account established to accumulate the Kansas jurisdictional costs of all EE Programs.

$TRUE_{n-1}$ = The annual true-up amount for an EE Rider year, to be determined prior to filing the next EE Rider and to be applied to the subsequent EE factor calculation. The true-up amount will reflect any difference between the total EE revenue collected and the actual costs (EEC_n) for the previous applicable time-period (n-1). Such true-up amount may be positive or negative. The true-up amount used to calculate the EEF for the first EE Rider equals zero.

$DA_{(class)}$ = The demand allocator for the applicable non-lighting classes. This demand allocator shall be based on the 12-CP allocator utilized by the Company for its Class Cost of Service Study in the most recent Kansas retail rate case.

$KWH_{n\ (class)}$ = The actual kWh electric sales for the Kansas jurisdiction for the applicable time-period (n) of the Class Cost of Service Study for the applicable class.

TERM:

This EE Rider shall remain in effect until such time the Commission-approved amount is recovered. In the event the Commission rules on, or a law is passed regarding treatment of such expenses, then Evergy Kansas Metro shall have the right to file for Commission approval of a compliant recovery methodology to replace or revise this EE Rider. Evergy Kansas Metro shall have the right to continue recovery under this EE Rider until such time a replacement methodology is approved and implemented or all Commission-approved amounts are recovered.

NOTES TO THE TARIFF:

1. The references to Accounts within the EE tariff are as defined in the FERC uniform system of accounts.
2. The EEC factor will be expressed in dollars per kilowatt-hour (kWh) rounded to five decimal places.

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO
(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 3

EVERGY KANSAS METRO RATE AREA
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ENERGY EFFICIENCY RIDER
~~Schedule EE~~LEGACY ENERGY EFFICIENCY PROGRAMS

EE FACTORS FOR JULY 1, 2021 THROUGH JUNE 30, 2022 USAGE:

1.	Residential Service	$0.00010/kWh
2.	Small General Service	$0.00009/kWh
3.	Medium General Service	$0.00009/kWh
4.	Large General Service	$0.00008/kWh

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

TRANSITION FROM LEGACY ENERGY EFFICIENCY PROGRAMS TO KEEIA 2023-2026 DSM PORTFOLIO:

As Evergy Kansas Metro transitions from the Legacy Energy Efficiency Programs (Legacy Programs), it is anticipated that Energy Efficiency (EE) Costs in 2021 and True-Up for the preceding Energy Efficiency Rider year will be filed in March 2022 for recovery over the period from July 2022 through June 2023. Further, EE Costs in 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed in March 2023 for recovery over the period from July 2023 through June 2024.

APPLICABLE:

This Energy Efficiency Rider shall be applicable to all non-lighting Kansas Retail Rate Schedules for Evergy Kansas Metro. The Energy Efficiency Rider will be calculated and applied separately to Residential and Non-Residential customer classes.

PURPOSE:

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. XX-XXXX-XXX-XXX and is designed to recover costs associated with Commission approved KEEIA 2023 – 2026 DSM Portfolio deferred but not recovered and any remaining unrecovered charges from the Company's Legacy Energy Efficiency Programs. Those charges include:

1) Program Costs (PC), Throughput Disincentive (TD), and Earnings Opportunity Award (EO) (if any) for the KEEIA 2023 – 2026 DSM Portfolio and any true-up associated with Legacy Programs. Program Costs (PC) and Throughput Disincentive (TD) will include interest carrying costs at the Company's pretax Weighted Average Cost of Capital (WACC) on the unrecovered balances.

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Energy Efficiency Rider and total actual monthly amounts for:

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 5

EVERGY KANSAS METRO RATE AREA

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

i. Program Costs (PC) incurred.
ii. Throughput Disincentive (TD) incurred.
iii. Amortization of any Earnings Opportunity Award (EO) ordered by the Kansas Corporation Commission (Commission)
iv. Remaining unrecovered amounts associated with Legacy Programs.

BASIS FOR CHARGE:

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor for the respective Residential and Non-Residential customer class. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

DEFINITIONS:

As used in this Energy Efficiency Rider, the following definitions shall apply:

"Throughput Disincentive" (TD) is meant to represent the utility's lost margins associated with the successful implementation of the KEEIA programs.

"Effective Period" (EP) means the year beginning with January 2023, and each year thereafter until all allowed charges associated with the approved KEEIA 2023 – 2026 DSM Portfolio are recovered.

"Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the utility's program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

"Incentive" means any consideration provided by the Company, including buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

"KEEIA 2023 – 2026 DSM Portfolio" consists of the demand-side programs and the Energy Efficiency Rider described in the KEEIA 2023 – 2026 DSM Portfolio, which became effective following Commission order and approval of the KEEIA 2023 – 2026 DSM Portfolio under Docket No. XX-XXXX-XXX-XXX.

"Program Costs" (PC) means any prudently incurred program expenditures, including such items as program planning, program design; administration; delivery; end-use measures and incentive payments; advertising expense; evaluation, measurement, and verification; market potential studies; and other costs necessary to deliver approved programs.

"Earnings Opportunity" (EO) means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

"Recovery Period" (RP) includes the twelve-month period beginning July 1, 2024 through June 30, 2025 and each twelve-month period thereafter.

"Weighted Average Cost of Capital (WACC)'" means the return on rate base used to determine the revenue requirement in the Company's most recently completed general rate proceeding.

DETERMINATION OF ENERGY EFFICIENCY FACTOR RATES:

The Energy Efficiency Factor (EE Factor) during each applicable EP is a dollar per kWh rate for each non-lighting rate schedule calculated as follows:

EE Factor = [PC + TD + EO + TRUE]/PE

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

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SCHEDULE EE

Replacing Schedule EE Sheet 7

EVERGY KANSAS METRO RATE AREA

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ENERGY EFFICIENCY RIDER

(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Where:

PC = Actual Program Costs incurred for the applicable EP. Such amounts shall include monthly interest on cumulative over- or under-balances at the Company's WACC.

TD = Throughput Disincentive is the Company's TD calculated by the Company during the applicable EP. See below for the detailed methodology for calculating the TD. Such amounts shall include monthly carrying costs on cumulative over- or under- balances at the Company's WACC.

EO = Earnings Opportunity is equal to the Earnings Opportunity Award means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Energy Efficiency Rider applies during the applicable RP.

The EE factor components and total EE Factor applicable to the Residential and Non-Residential rate schedules shall be rounded to the nearest $0.00001.

CALCULATION OF TD:

Monthly Throughput Disincentive = the sum of the Throughput Disincentive Calculation for all programs applicable to (1) Residential and (2) Non-Residential customers.

Throughput Disincentive Calculation:

The Throughput Disincentive Calculation for each program shall be determined by the formula:

$$TD\$ = MS \times NMR$$

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ENERGY EFFICIENCY RIDER
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Where:

TD$ = Throughput Disincentive Dollars to be collected for a given calendar month, for a given class.

NMR = Net Margin Revenue. Net Margin revenue values for each class are provided below in the Net Margin Revenue Rates By Class By Month table.

MS = The sum of all Programs' Monthly Savings in kWh, for a given month, for a given class. The Monthly Savings in kWh for each Program shall be determined by the formula:

$$MS = (MASCM + CASPM – RB) \times LS + HEE$$

RB = Rebasing Adjustment. The Rebasing Adjustment shall equal the CAS defined below applicable as of the date used for the KEEIA normalization in any general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio. In the event more than one general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio, the Rebasing Adjustment shall include each and every prior Rebasing Adjustment calculation.

LS = Load Shape. The Load Shape is the monthly load shape percent for each program as follows:

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SCHEDULE EE

Replacing Schedule EE Sheet 9

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Program Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Whole Business Efficiency	8.117%	7.809%	8.087%	8.291%	9.156%	8.765%	9.264%	8.805%	7.652%	8.337%	8.021%	7.695%	100.000%
Hard-to-Reach Businesses	7.805%	7.539%	7.881%	8.365%	9.589%	9.288%	9.810%	8.999%	7.486%	8.080%	7.742%	7.416%	100.000%
Business Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%
Business Energy Education	8.179%	8.120%	8.098%	8.325%	8.469%	7.799%	8.543%	8.495%	7.907%	9.084%	8.687%	8.294%	100.000%
Whole Home Efficiency	7.414%	6.352%	6.378%	5.881%	7.592%	12.023%	12.404%	12.462%	9.699%	6.203%	6.387%	7.204%	100.000%
Home Energy Education	7.702%	7.150%	8.021%	7.853%	8.530%	8.863%	9.385%	9.398%	8.511%	8.612%	7.952%	8.023%	100.000%
Hard-to-Reach Homes	5.945%	4.702%	3.666%	3.687%	7.312%	16.682%	17.456%	17.112%	11.193%	3.296%	3.617%	5.330%	100.000%
Home Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%

Where:

MC = Measure Count. Measure Count, for a given month, for a given class, for each measure is the number of each measure installed in the current calendar month.

ME = Measure Energy. Measure Energy will be determined as follows, for each Measure:

i. Prior to finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure times the NTG factors defined in the Technical Resource Manual (TRM).

ii. After finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of KEEIA 2023 – 2026 DSM Portfolio).

iii. For Custom Measures the ME will be the annual kWh savings calculated and reported monthly by the program implementers and aggregated by program and by customer class.

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MAS = The sum of MC multiplied by ME for all measures in a program in the current calendar month.

CAS = Cumulative sum of MAS for each program for the KEEIA 2023 – 2026 DSM Portfolio

CM = Current calendar month

PM = Prior calendar month

HEE = Monthly kWh savings for the Home Energy Education program measured and reported monthly by the program implementer.

Measure – Energy efficiency measures described for each program in the Technical Resource Manual.

Programs – KEEIA 2023 – 2026 DSM Portfolio programs.

TRM – Commission-Approved Technical Resource Manual updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of KEEIA the 2023 – 2026 DSM Portfolio.

EARNINGS OPPORTUNITY:

The annual KEEIA EO Award shall be calculated using the Earnings Opportunity Matrix below. The EO target at 100% is $5,991,301. The EO cannot go above $7,335,349. The cap is based on current program levels. If Commission- approved new programs are added during the approved program period, the Company may seek Commission approval to have the targets and cap of the EO increase proportionately to the increase in savings targets

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO
(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 11

EVERGY KANSAS METRO RATE AREA
(Territory to which schedule is applicable)

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

OTHER PROVISIONS:

The Company shall file an update to NMR rates by month by class contemporaneous with filing any compliance tariff sheets in any general rate case reflecting the rates set in that case, and the billing determinants used in setting rates in that case.

Annual kWh savings per measure will be updated prospectively in the TRM no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio based on EM&V ex-post gross adjustments determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

KEEIA NTG factors will be updated prospectively in the TRM no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio based on EM&V net-to-gross percentages for each program determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

FILING:

After the initial EE Rider rate adjustment filing, the Company shall make an Energy Efficiency Rider rate adjustment filing by March 31 following each program year to take effect each twelve-month period beginning in July and ending in June under the Term of this Energy Efficiency Rider.

EE Factors for the billing months of July 2024 through June 2025 are as follows:

Residential - $0.00000
Non-Residential - $0.00000

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THE STATE CORPORATION COMMISSION OF KANSAS

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SCHEDULE EE

Replacing Schedule EE Sheet 12

EVERGY KANSAS METRO RATE AREA

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

NET MARGIN REVENUE RATES BY CLASS BY MONTH:

Customer Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential	$0.075300	$0.076200	$0.076780	$0.077390	$0.082170	$0.102590	$0.104940	$0.104940	$0.101690	$0.081780	$0.077800	$0.076380
Non-Residential - SGS	$0.083130	$0.086180	$0.089830	$0.091090	$0.096080	$0.111090	$0.111970	$0.111240	$0.107700	$0.094880	$0.090140	$0.086290
Non-Residential - MGS	$0.065020	$0.067370	$0.071180	$0.071450	$0.075680	$0.084470	$0.086370	$0.086060	$0.083920	$0.075060	$0.071960	$0.066910
Non-Residential - LGS	$0.051220	$0.052950	$0.054250	$0.055120	$0.056690	$0.061790	$0.062270	$0.061920	$0.060790	$0.056780	$0.054070	$0.052460

EARNINGS OPPORTUNITY MATRIX:

Evergy Kansas Metro KEEIA 2023-2026 DSM Plan EO Matrix

No.	Metric	Programs	Target	Target Unit	2023-2026 EO Target	EO Amount per Target Unit	$/Unit	Cycle EO Cap %	2023-2026 EO Cap
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$173,026	$173,026.17	$	100%	$173,026
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$442,081	$442,081.48	$	100%	$442,081
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	68,986	MWh	$1,344,048	$19.48	$/MWh	125%	$1,680,060
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	22.985	MW	$2,419,287	$105,255.75	$/MW	125%	$3,024,109
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	46.668	MW	$1,612,858	$34,560.10	$/MW	125%	$2,016,073
	Total Forecasted Earnings Opportunity				**$5,991,301**				**$7,335,349**

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THE STATE CORPORATION COMMISSION OF KANSAS

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SCHEDULE EE

Replacing Schedule EE Sheet 13

EVERGY KANSAS METRO RATE AREA

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ENERGY EFFICIENCY RIDER

(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

ANNUAL EARNINGS OPPORTUNITY CALCULATION:

Evergy Kansas Metro KEEIA 2023-2026 DSM Plan EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 1

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

which was filed June 29, 2021

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 1 of 13 Sheets

ENERGY EFFICIENCY RIDER
LEGACY ENERGY EFFICIENCY PROGRAMS

AVAILABILITY:

This Energy Efficiency (EE) Rider (Schedule EE) shall be applicable to all non-lighting Kansas Retail Rate Schedules for Evergy Kansas Metro.

PURPOSE:

This EE Rider is designed to recover all costs associated with the following Commission-approved Income-Eligible, Energy Efficiency and Demand Response schedules: (1) IEW; (2) PT; (3) BOC; (4) ER; (5) CHP; (6) NH; (7) RHER; (8) RSTP; and (9) DRI. Evergy Kansas Metro will file a new EE Rider no later than March 31 of each year to recover EE Program costs incurred during the prior calendar year for recovery over the following July through June period.

BASIS:

Program Costs will be recovered using an EE factor applied to each customer's bill. The EE factor will be applied to the customer's usage on a kilowatt-hour basis ($/kWh). Retail customer charges for EE Program Costs are determined by multiplying the kilowatt-hours of electricity billed by the corresponding EE factor. The customer charges associated with this EE Rider will be identified and shown as a separate line on the customer's bill.

ENERGY EFFICIENCY RIDER AMOUNT CALCULATION:

A separate EE factor will be calculated for each customer class based upon the demand allocator and total kWh for each class. The EE factor (EEF) for each customer class will be calculated to recover the Program Costs for approved EE Programs from the specified period plus any applicable true up amount from the prior period by applying a class Demand Allocator and then dividing by the total kilowatt-hours (kWh) for that class as follows:

$$EEF_{(class)} = \frac{(EEC_n + TRUE_{n-1}) \times DA_{(class)}}{KWH_{n\ (class)}}$$

Issued December 17 2021
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Effective _____
Month Day Year

By _____
Darrin Ives, Vice President

ENERGY EFFICIENCY RIDER
LEGACY ENERGY EFFICIENCY PROGRAMS

Where:

EEC_n = All actual costs associated with Commission-approved EE Programs incurred during the applicable time-period (n). These costs are recorded in a deferred regulatory asset account established to accumulate the Kansas jurisdictional costs of all EE Programs.

$TRUE_{n-1}$ = The annual true-up amount for an EE Rider year, to be determined prior to filing the next EE Rider and to be applied to the subsequent EE factor calculation. The true-up amount will reflect any difference between the total EE revenue collected and the actual costs (EEC_n) for the previous applicable time-period (n-1). Such true-up amount may be positive or negative. The true-up amount used to calculate the EEF for the first EE Rider equals zero.

$DA_{(class)}$ = The demand allocator for the applicable non-lighting classes. This demand allocator shall be based on the 12-CP allocator utilized by the Company for its Class Cost of Service Study in the most recent Kansas retail rate case.

$KWH_{n\ (class)}$ = The actual kWh electric sales for the Kansas jurisdiction for the applicable time-period (n) of the Class Cost of Service Study for the applicable class.

TERM:

This EE Rider shall remain in effect until such time the Commission-approved amount is recovered. In the event the Commission rules on, or a law is passed regarding treatment of such expenses, then Evergy Kansas Metro shall have the right to file for Commission approval of a compliant recovery methodology to replace or revise this EE Rider. Evergy Kansas Metro shall have the right to continue recovery under this EE Rider until such time a replacement methodology is approved and implemented or all Commission-approved amounts are recovered.

NOTES TO THE TARIFF:

1. The references to Accounts within the EE tariff are as defined in the FERC uniform system of accounts.
2. The EEC factor will be expressed in dollars per kilowatt-hour (kWh) rounded to five decimal places.

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 3

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

which was filed June 29, 2021

No supplement or separate understanding shall modify the tariff as shown hereon.

Sheet 3 of 13 Sheets

ENERGY EFFICIENCY RIDER
LEGACY ENERGY EFFICIENCY PROGRAMS

EE FACTORS FOR JULY 1, 2021 THROUGH JUNE 30, 2022 USAGE:

1.	Residential Service	$0.00010/kWh
2.	Small General Service	$0.00009/kWh
3.	Medium General Service	$0.00009/kWh
4.	Large General Service	$0.00008/kWh

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

TRANSITION FROM LEGACY ENERGY EFFICIENCY PROGRAMS TO KEEIA 2023-2026 DSM PORTFOLIO:

As Evergy Kansas Metro transitions from the Legacy Energy Efficiency Programs (Legacy Programs), it is anticipated that Energy Efficiency (EE) Costs in 2021 and True-Up for the preceding Energy Efficiency Rider year will be filed in March 2022 for recovery over the period from July 2022 through June 2023. Further, EE Costs in 2022 and True-Up for the preceding Energy Efficiency Rider year will be filed in March 2023 for recovery over the period from July 2023 through June 2024.

APPLICABLE:

This Energy Efficiency Rider shall be applicable to all non-lighting Kansas Retail Rate Schedules for Evergy Kansas Metro. The Energy Efficiency Rider will be calculated and applied separately to Residential and Non-Residential customer classes.

PURPOSE:

This Energy Efficiency Rider is filed in compliance with the Commission's Order in Docket No. XX-XXXX-XXX-XXX and is designed to recover costs associated with Commission approved KEEIA 2023 – 2026 DSM Portfolio deferred but not recovered and any remaining unrecovered charges from the Company's Legacy Energy Efficiency Programs. Those charges include:

1) Program Costs (PC), Throughput Disincentive (TD), and Earnings Opportunity Award (EO) (if any) for the KEEIA 2023 – 2026 DSM Portfolio and any true-up associated with Legacy Programs. Program Costs (PC) and Throughput Disincentive (TD) will include interest carrying costs at the Company's pretax Weighted Average Cost of Capital (WACC) on the unrecovered balances.

2) Reconciliations, with interest, to true-up for differences between the revenues billed under this Energy Efficiency Rider and total actual monthly amounts for:

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

i. Program Costs (PC) incurred.
ii. Throughput Disincentive (TD) incurred.
iii. Amortization of any Earnings Opportunity Award (EO) ordered by the Kansas Corporation Commission (Commission)
iv. Remaining unrecovered amounts associated with Legacy Programs.

BASIS FOR CHARGE:

Energy Efficiency incremental program costs will be recovered using an Energy Efficiency (EE) factor applied to each applicable customer's bill. The EE factor will be applied to each applicable customer's energy usage by multiplying the kilowatt-hours (kWh) of electricity billed by the EE factor for the respective Residential and Non-Residential customer class. The charge associated with this Energy Efficiency Rider will be identified and shown as a separate line on the applicable customer's monthly billings.

DEFINITIONS:

As used in this Energy Efficiency Rider, the following definitions shall apply:

"Throughput Disincentive" (TD) is meant to represent the utility's lost margins associated with the successful implementation of the KEEIA programs.

"Effective Period" (EP) means the year beginning with January 2023, and each year thereafter until all allowed charges associated with the approved KEEIA 2023 – 2026 DSM Portfolio are recovered.

"Evaluation Measurement & Verification" (EM&V) means the performance of studies and activities intended to evaluate the process of the utility's program delivery and oversight and to estimate and/or verify the estimated actual energy and demand savings, cost effectiveness, and other effects from demand-side programs.

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

"Incentive" means any consideration provided by the Company, including buy downs, markdowns, rebates, bill credits, payments to third parties, direct installation, giveaways, and education, which encourages the adoption of program measures.

"KEEIA 2023 – 2026 DSM Portfolio" consists of the demand-side programs and the Energy Efficiency Rider described in the KEEIA 2023 – 2026 DSM Portfolio, which became effective following Commission order and approval of the KEEIA 2023 – 2026 DSM Portfolio under Docket No. XX-XXXX-XXX-XXX.

"Program Costs" (PC) means any prudently incurred program expenditures, including such items as program planning, program design; administration; delivery; end-use measures and incentive payments; advertising expense; evaluation, measurement, and verification; market potential studies; and other costs necessary to deliver approved programs.

"Earnings Opportunity" (EO) means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

"Recovery Period" (RP) includes the twelve-month period beginning July 1, 2024 through June 30, 2025 and each twelve-month period thereafter.

"Weighted Average Cost of Capital (WACC)'" means the return on rate base used to determine the revenue requirement in the Company's most recently completed general rate proceeding.

DETERMINATION OF ENERGY EFFICIENCY FACTOR RATES:

The Energy Efficiency Factor (EE Factor) during each applicable EP is a dollar per kWh rate for each non-lighting rate schedule calculated as follows:

EE Factor = [PC + TD + EO + TRUE]/PE

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Where:

PC = Actual Program Costs incurred for the applicable EP. Such amounts shall include monthly interest on cumulative over- or under-balances at the Company's WACC.

TD = Throughput Disincentive is the Company's TD calculated by the Company during the applicable EP. See below for the detailed methodology for calculating the TD. Such amounts shall include monthly carrying costs on cumulative over- or under- balances at the Company's WACC.

EO = Earnings Opportunity is equal to the Earnings Opportunity Award means the annual incentive ordered by the Commission based on actual performance verified through EM&V against planned targets.

PE = Projected Energy, in kWh, forecasted to be delivered to the customers to which the Energy Efficiency Rider applies during the applicable RP.

The EE factor components and total EE Factor applicable to the Residential and Non-Residential rate schedules shall be rounded to the nearest $0.00001.

CALCULATION OF TD:

Monthly Throughput Disincentive = the sum of the Throughput Disincentive Calculation for all programs applicable to (1) Residential and (2) Non-Residential customers.

Throughput Disincentive Calculation:

The Throughput Disincentive Calculation for each program shall be determined by the formula:

$$TD\$ = MS \times NMR$$

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Where:

TD$ = Throughput Disincentive Dollars to be collected for a given calendar month, for a given class.

NMR = Net Margin Revenue. Net Margin revenue values for each class are provided below in the Net Margin Revenue Rates By Class By Month table.

MS = The sum of all Programs' Monthly Savings in kWh, for a given month, for a given class. The Monthly Savings in kWh for each Program shall be determined by the formula:

$$MS = (MASCM + CASPM – RB) \times LS + HEE$$

RB = Rebasing Adjustment. The Rebasing Adjustment shall equal the CAS defined below applicable as of the date used for the KEEIA normalization in any general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio. In the event more than one general rate case resulting in new rates becoming effective during the accrual and collection of TD$ pursuant to KEEIA 2023 – 2026 DSM Portfolio, the Rebasing Adjustment shall include each and every prior Rebasing Adjustment calculation.

LS = Load Shape. The Load Shape is the monthly load shape percent for each program as follows:

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 9

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

which was filed June 29, 2021

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Sheet 9 of 13 Sheets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

Program Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Whole Business Efficiency	8.117%	7.809%	8.087%	8.291%	9.156%	8.765%	9.264%	8.805%	7.652%	8.337%	8.021%	7.695%	100.000%
Hard-to-Reach Businesses	7.805%	7.539%	7.881%	8.365%	9.589%	9.288%	9.810%	8.999%	7.486%	8.080%	7.742%	7.416%	100.000%
Business Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%
Business Energy Education	8.179%	8.120%	8.098%	8.325%	8.469%	7.799%	8.543%	8.495%	7.907%	9.084%	8.687%	8.294%	100.000%
Whole Home Efficiency	7.414%	6.352%	6.378%	5.881%	7.592%	12.023%	12.404%	12.462%	9.699%	6.203%	6.387%	7.204%	100.000%
Home Energy Education	7.702%	7.150%	8.021%	7.853%	8.530%	8.863%	9.385%	9.398%	8.511%	8.612%	7.952%	8.023%	100.000%
Hard-to-Reach Homes	5.945%	4.702%	3.666%	3.687%	7.312%	16.682%	17.456%	17.112%	11.193%	3.296%	3.617%	5.330%	100.000%
Home Demand Response	1.864%	1.561%	1.245%	2.153%	7.472%	20.996%	22.390%	22.384%	14.106%	2.290%	1.409%	2.129%	100.000%

Where:

MC = Measure Count. Measure Count, for a given month, for a given class, for each measure is the number of each measure installed in the current calendar month.

ME = Measure Energy. Measure Energy will be determined as follows, for each Measure:

i. Prior to finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure times the NTG factors defined in the Technical Resource Manual (TRM).

ii. After finalization of EM&V for KEEIA Year 1 programs, for Measures not listed under those programs listed in (iii) below, the ME is the annual total of normalized savings for each measure at customer meter per measure defined in the updated TRM (which will be updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of KEEIA 2023 – 2026 DSM Portfolio).

iii. For Custom Measures the ME will be the annual kWh savings calculated and reported monthly by the program implementers and aggregated by program and by customer class.

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ENERGY EFFICIENCY RIDER
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MAS = The sum of MC multiplied by ME for all measures in a program in the current calendar month.

CAS = Cumulative sum of MAS for each program for the KEEIA 2023 – 2026 DSM Portfolio

CM = Current calendar month

PM = Prior calendar month

HEE = Monthly kWh savings for the Home Energy Education program measured and reported monthly by the program implementer.

Measure – Energy efficiency measures described for each program in the Technical Resource Manual.

Programs – KEEIA 2023 – 2026 DSM Portfolio programs.

TRM – Commission-Approved Technical Resource Manual updated based on EM&V ex-post gross adjustments and NTG factors determined for Year 1 no later than 24 months after the commencement of KEEIA the 2023 – 2026 DSM Portfolio.

EARNINGS OPPORTUNITY:

The annual KEEIA EO Award shall be calculated using the Earnings Opportunity Matrix below. The EO target at 100% is $5,991,301. The EO cannot go above $7,335,349. The cap is based on current program levels. If Commission- approved new programs are added during the approved program period, the Company may seek Commission approval to have the targets and cap of the EO increase proportionately to the increase in savings targets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

OTHER PROVISIONS:

The Company shall file an update to NMR rates by month by class contemporaneous with filing any compliance tariff sheets in any general rate case reflecting the rates set in that case, and the billing determinants used in setting rates in that case.

Annual kWh savings per measure will be updated prospectively in the TRM no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio based on EM&V ex-post gross adjustments determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

KEEIA NTG factors will be updated prospectively in the TRM no later than 24 months after the commencement of the KEEIA 2023 – 2026 DSM Portfolio based on EM&V net-to-gross percentages for each program determined for Year 1 and annually thereafter upon finalization of each subsequent program year EM&V report.

FILING:

After the initial EE Rider rate adjustment filing, the Company shall make an Energy Efficiency Rider rate adjustment filing by March 31 following each program year to take effect each twelve-month period beginning in July and ending in June under the Term of this Energy Efficiency Rider.

EE Factors for the billing months of July 2024 through June 2025 are as follows:

Residential - $0.00000
Non-Residential - $0.00000

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 12

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

which was filed June 29, 2021

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Sheet 12 of 13 Sheets

ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

NET MARGIN REVENUE RATES BY CLASS BY MONTH:

Customer Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Residential	$0.075300	$0.076200	$0.076780	$0.077390	$0.082170	$0.102590	$0.104940	$0.104940	$0.101690	$0.081780	$0.077800	$0.076380
Non-Residential - SGS	$0.083130	$0.086180	$0.089830	$0.091090	$0.096080	$0.111090	$0.111970	$0.111240	$0.107700	$0.094880	$0.090140	$0.086290
Non-Residential - MGS	$0.065020	$0.067370	$0.071180	$0.071450	$0.075680	$0.084470	$0.086370	$0.086060	$0.083920	$0.075060	$0.071960	$0.066910
Non-Residential - LGS	$0.051220	$0.052950	$0.054250	$0.055120	$0.056690	$0.061790	$0.062270	$0.061920	$0.060790	$0.056780	$0.054070	$0.052460

EARNINGS OPPORTUNITY MATRIX:

Evergy Kansas Metro KEEIA 2023-2026 DSM Plan EO Matrix

No.	Metric	Programs	Target	Target Unit	2023-2026 EO Target	EO Amount per Target Unit	$/Unit	Cycle EO Cap %	2023-2026 EO Cap
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	100%	Threshold Metrics	$173,026	$173,026.17	$	100%	$173,026
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	100%	Threshold Metrics	$442,081	$442,081.48	$	100%	$442,081
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	68,986	MWh	$1,344,048	$19.48	$/MWh	125%	$1,680,060
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	22.985	MW	$2,419,287	$105,255.75	$/MW	125%	$3,024,109
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	46.668	MW	$1,612,858	$34,560.10	$/MW	125%	$2,016,073
	Total Forecasted Earnings Opportunity				**$5,991,301**				**$7,335,349**

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Darrin Ives, Vice President

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THE STATE CORPORATION COMMISSION OF KANSAS

EVERGY METRO, INC., d.b.a. EVERGY KANSAS METRO

(Name of Issuing Utility)

SCHEDULE EE

Replacing Schedule EE Sheet 13

EVERGY KANSAS METRO RATE AREA

(Territory to which schedule is applicable)

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ENERGY EFFICIENCY RIDER
(KEEIA 2023-2026 DSM Portfolio Approved Under Kansas Energy Efficiency Investment Act)

ANNUAL EARNINGS OPPORTUNITY CALCULATION:

Evergy Kansas Metro KEEIA 2023-2026 DSM Plan EO Annual Calculation

No.	Metric	Programs	Source of Inputs	EO Criterion and Calculation
1	Education & Awareness : criteria will be customer opportunities and customers engaged	Home Energy Education Business Energy Education	The EM&V report will include documentation of all community events held, # of customers completing online energy tools and the customer surveys.	The performance metric will be based on key indicators of effective and widespread education of customers during the period. 1) Community Events held quarterly w/ documentation (4 / year) 2) minimum of 10% eligible customers completing online energy analysis yearly 3) EM&V customer survey of awareness of programs greater than 50% If all three criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
2	Hard to Reach customer participation : criteria will be $ invested and customers participating	Hard-to-Reach Homes Hard-to-Reach Businesses	That actual spend will be reported directly out of the Company's accounting system and included in the EM&V report. The business customer # of participants by rate code will be provided in the final EM&V report for the calculation of % of participation	The performance metric will be based on key indicators of participation of hard-to-reach customers during the period. 1) Actual spend for Hard-to-Reach Home program exceeds 85% of approved annual budget 2) Ratio of participants with small business rate codes in the Hard-to-Reach Business and Whole Business Efficiency to total participants exceeds 20% If both criteria are met, annual EO will equal 25% of the Cycle 1 EO Target, if any criteria are not met the annual EO will equal $0
3	EE & DR MWh : criteria will be first-year cumulative incremental MWh.	Whole Home Efficiency Home Demand Response Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio energy savings matching the definition of this performance metric for each program year.	Evaluated net MWh for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
4	EE MW : criteria will be first-year cumulative incremental MW coincident with system peak.	Whole Home Efficiency Whole Business Efficiency Pilot Incubator	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.
5	Business and Residential Demand Response MW impact : annual MW reduction capability	Home Demand Response Business Demand Response	The EM&V report will include a subtotal of portfolio demand savings matching the definition of this performance metric for each program year.	Evaluated net MW for subject programs times the EO Amount per Target Unit, subject to limitation of the Cycle EO Cap.

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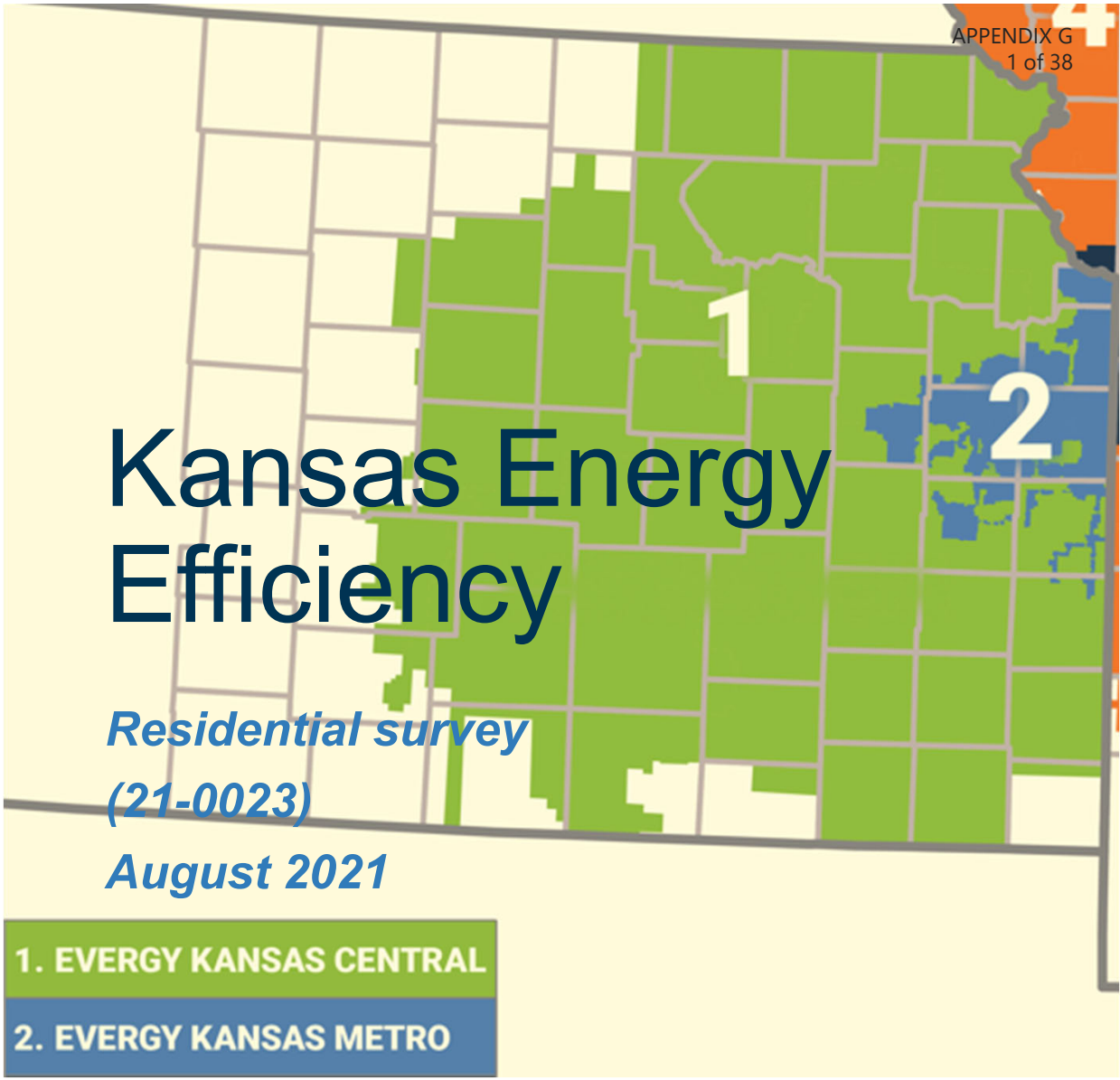
Kansas Energy Efficiency

Residential survey (21-0023)

August 2021



Methodology

Survey to Evergy Residential Customers

- Online survey
- 27 questions
- 551 respondents (3rd party provided sample)
- Data collection: July 21 – August 5, 2021

Executive Summary

Even with a monthly fee, strong support exists to expand MO programs to KS

At the request of the Kansas Corporation Commission, the Research Partnership at Wichita State University in late 2020 conducted a series of focus groups among Kansas residential customers. That research showed a broad distaste for increasing the cost on customers to fund energy efficiency programs. A research "best practice" is to validate qualitative (small-sample) results with quantitative (large-sample) research. This research was conducted for that purpose. Evergy Customer Insights staff designed an online survey, and an outside research sample company provided a list of residential email addresses to whom Evergy sent the survey. Question 1 asked which electric company served their home, and Q2 retained Evergy customers while terminating customers of other utilities. This summary shows results of the survey with 551 Evergy customers.

Strong support is seen for expanding energy efficiency programs currently available in Missouri to customers in Kansas (95%). Just 7% of customers supporting expansion said they are unwilling to pay any fee, but at the other end of the spectrum, 6% would pay $10/month, for an average of $3.64. Knowing a monthly fee would be charged, support stayed strong at 79%.

If the cost were less, one-third of customers would replace windows or buy energy efficient appliances, and around one-quarter would upgrade their HVAC, add insulation, switch to LEDs, or add weather stripping.

If Evergy offered a program to assist in the cost of upgrades, three-quarters of customers would be somewhat more or much more likely to make upgrades. After reading a brief description of the PAYS program, two-thirds of customers (69%) reported an interest in participating.

Well over half of customers agreed that reducing energy use is important. The benefit of "a lower cost to me" dominated all other motivations to reduce use, especially among the lower income groups. Most reported practicing "no-cost" methods to reduce usage; mainly turning off lights, using shades or blinds, or using ceiling or floor fans. More than half of customers have already switched to LED lightbulbs, but all upgrades lag among renters, younger, multi-family, or low-income customers.

Finally, 83% of customers said yes, low income or underserved customers should receive extra benefits or offers from Evergy programs.

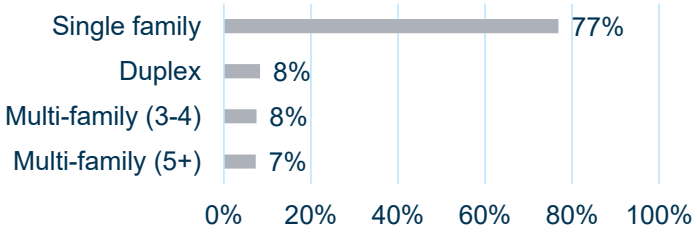
Key Findings

Customers in Kansas are keenly interested in energy efficiency programs

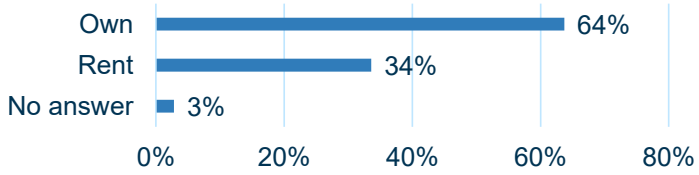
- About Energy Efficiency Programs from Evergy:
  - Even with a monthly fee, 79% of Evergy customers in Kansas support expanding programs available in Missouri to customers in Kansas.
  - Based on a short description of the PAYS program, 69% of Kansas customers would be interested in participating.
- About Reducing the Use of Electricity
  - 61% of customers consider it very important to reduce energy use, mainly to save money.
  - Most customers follow “no-cost” practices to reduce energy use, mainly turning off lights, using blinds or shades, or using ceiling or floor fans.
  - Some have made upgrades to reduce use – mainly LED lightbulbs – but lower income customers, younger customers, multi-family, and renters have not done as much.
  - If the cost were lower, the top upgrades sought are new windows and more efficient appliances. If Evergy had a program to assist in the cost, 78% would be somewhat or much more likely to upgrade.
- Other Details about Energy Efficiency Programs
  - The utility company is a solid source for EE information and is most trusted to administer EE programs.
  - Most customers believe low-income or underserved customers should receive extra benefits or offers.
  - If rebates were offered in Kansas, nearly half of customers would like them in the form of bill credits.

Respondent Demographics

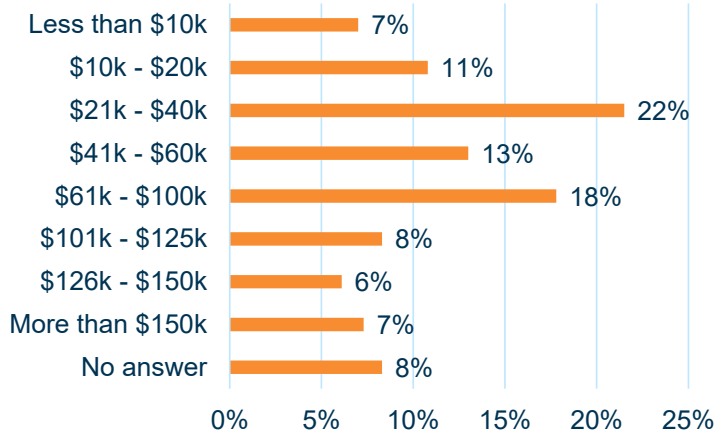
Q23) Housing Type



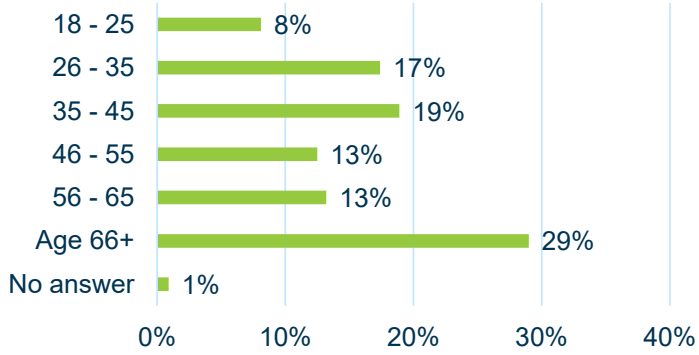
Q24) Housing Ownership



Q26) Household Income



Q25) Respondent Age



(For a comparison of survey demographics to Evergy customers in Kansas, please see the appendix)

About Energy Efficiency Programs from Evergy

evergy

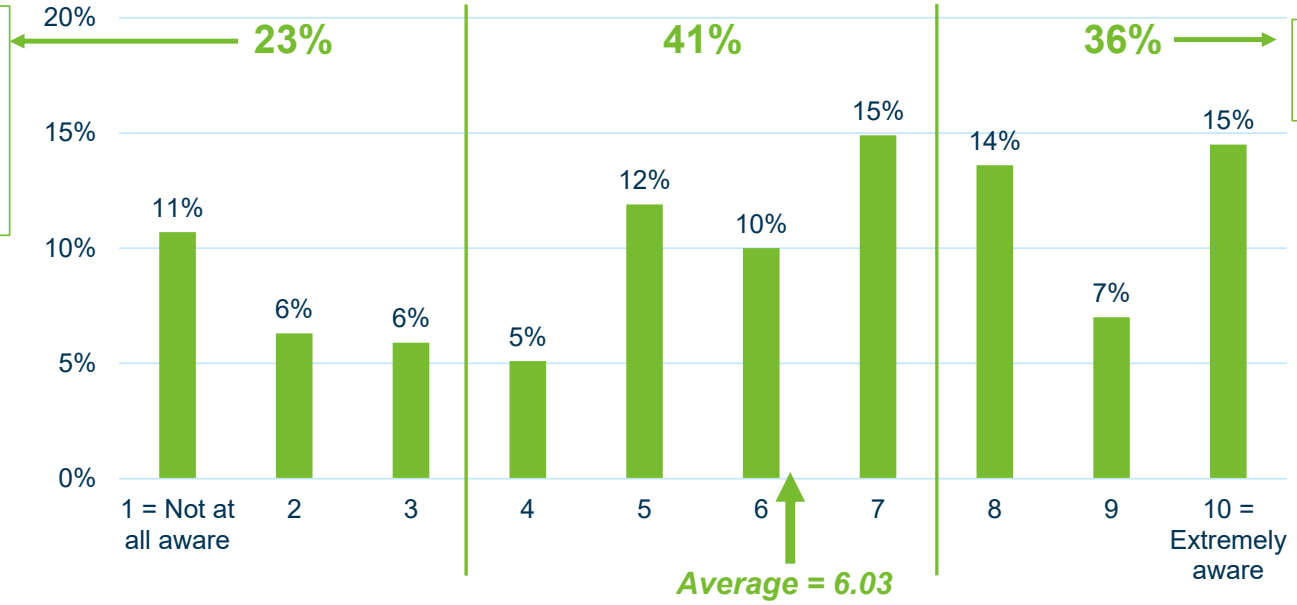
Full Spectrum of Awareness of Evergy EE in KS

One-third (36%) claim high awareness; one-quarter (23%) admit very little awareness

Q3) Awareness of Evergy EE in KS (total)

Housing
- Renters = 30%
- Multi = 28%

Income
- < $41k = 29%



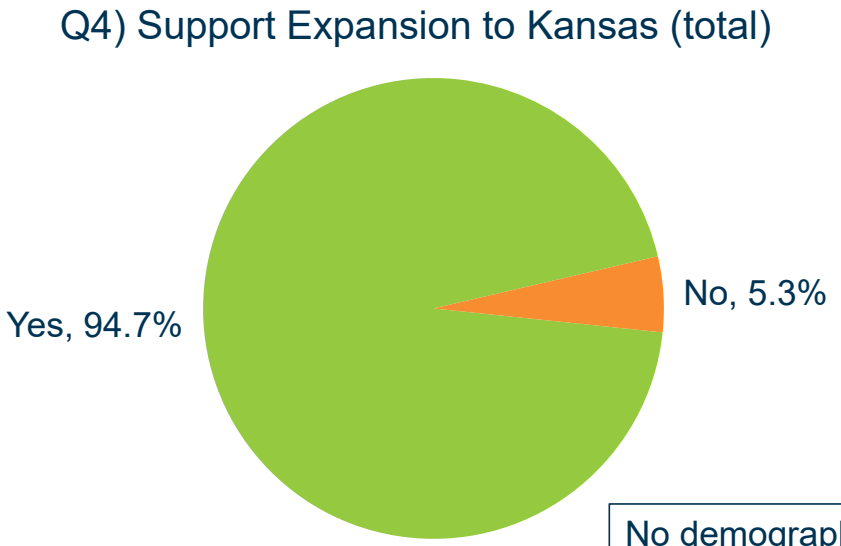
Income
- > $100k = 53%

Huge Support to Expand Programs to Kansas

Barring other information, 95% support expanding Evergy's energy efficiency programs to Kansas

Q4) Evergy offers a variety of energy efficiency programs for customers in Missouri that give them more control over their energy usage and help them reduce their usage and bills. For example, Evergy has a program that offers customers discounts on purchasing LED lights which use less electricity than other types of lights. Evergy only has permission from state regulators to offer these programs in Missouri.

Do you support the expansion of energy efficiency programs, so they are available to Evergy customers in Kansas?

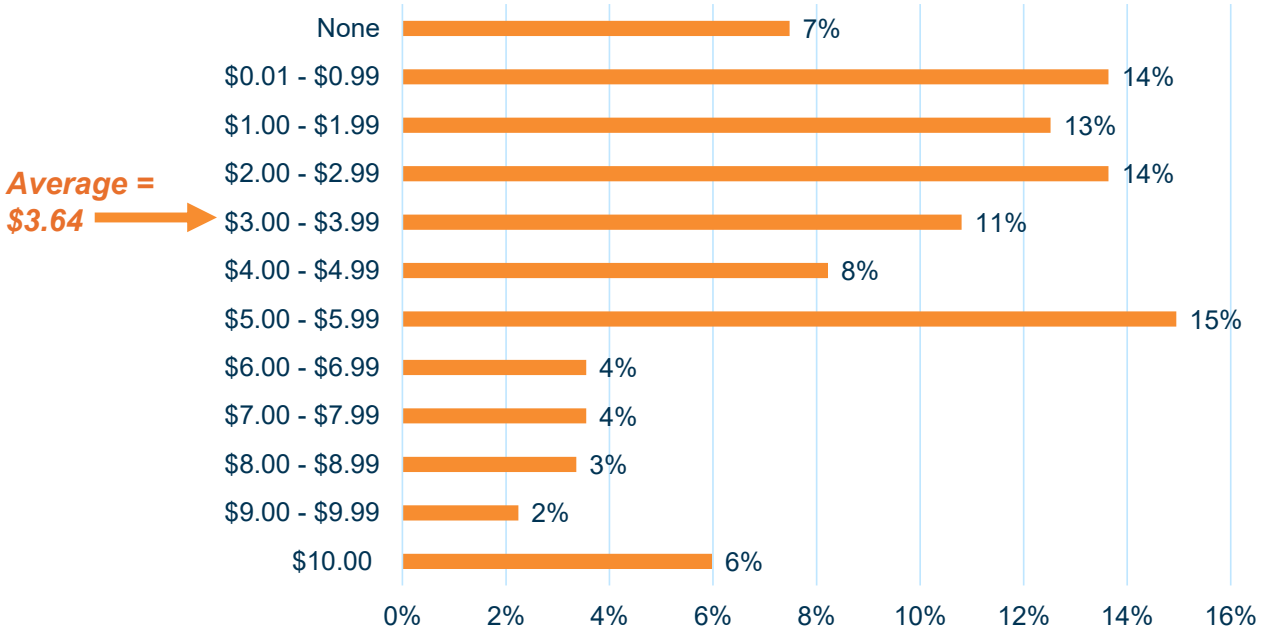


No demographic skews noted: support ranged from 89% to 100% across age, housing, income

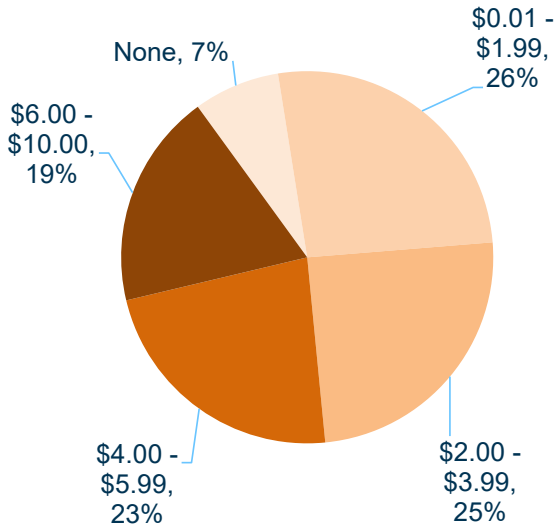
Nearly All Supporters Willing to Pay for EE Programs

Just 7% say "none", while 19% are willing to pay $6.00 - $10.00/month

Q5) Reasonable Monthly Fee for EE in Kansas



Q5) Reasonable Monthly Fee

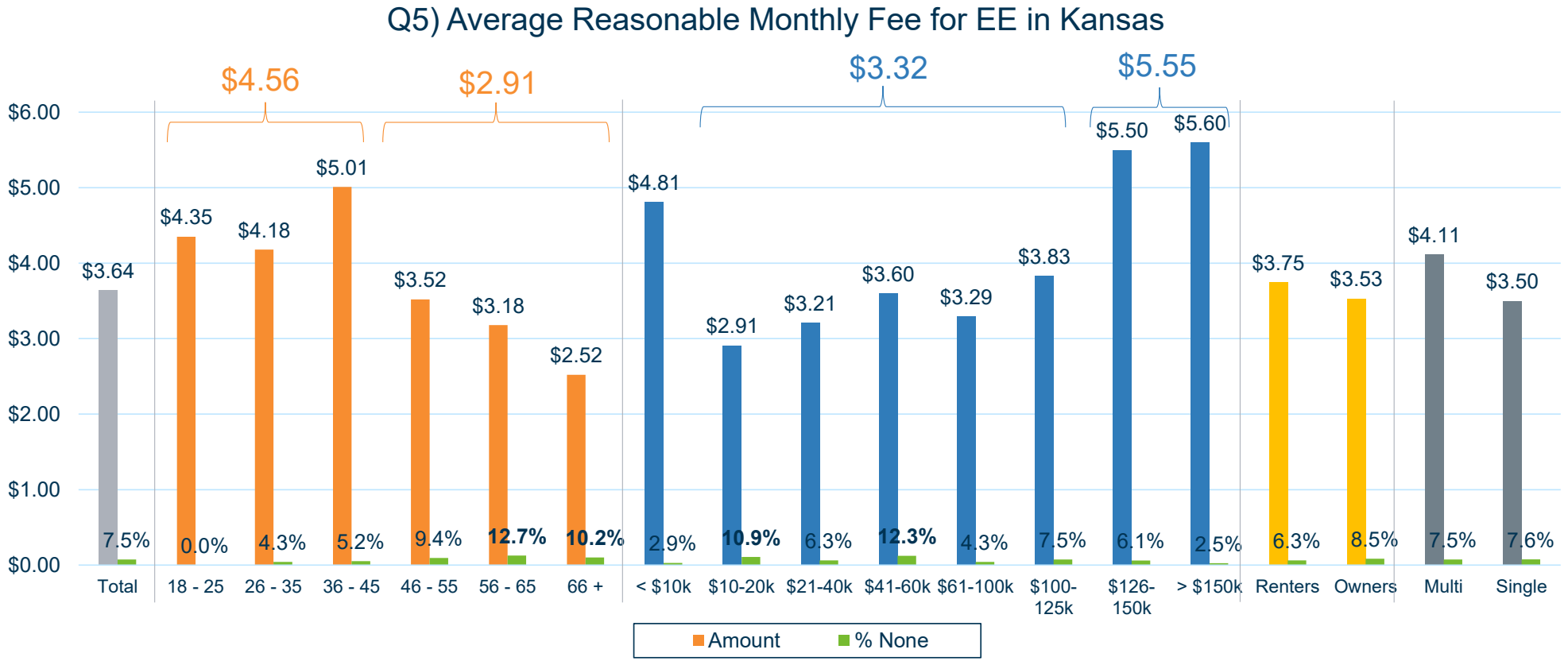


evergy

Public

Amount Willing to Pay for Energy Efficiency Programs

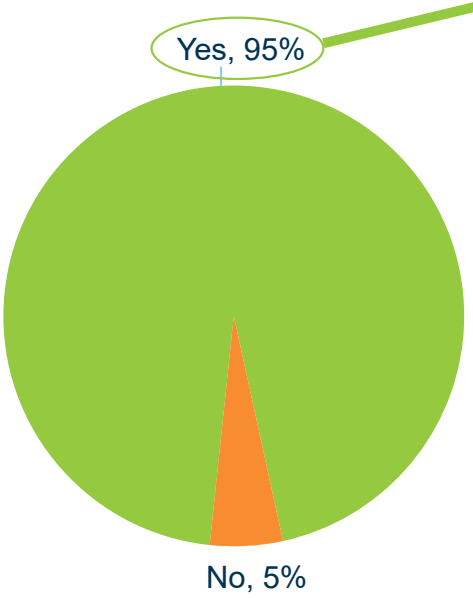
Younger, more affluent customers are willing to pay more than average



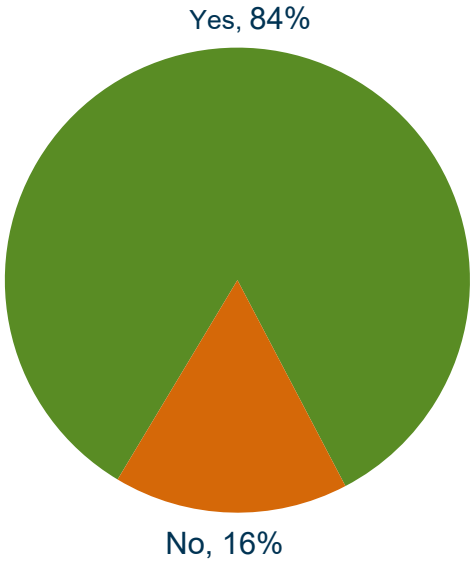
Support to Expand Programs to Kansas with Fee

Knowing a fee is involved, support slipped but remains strong

Q4) Support Expansion



Q6) Support with Fee

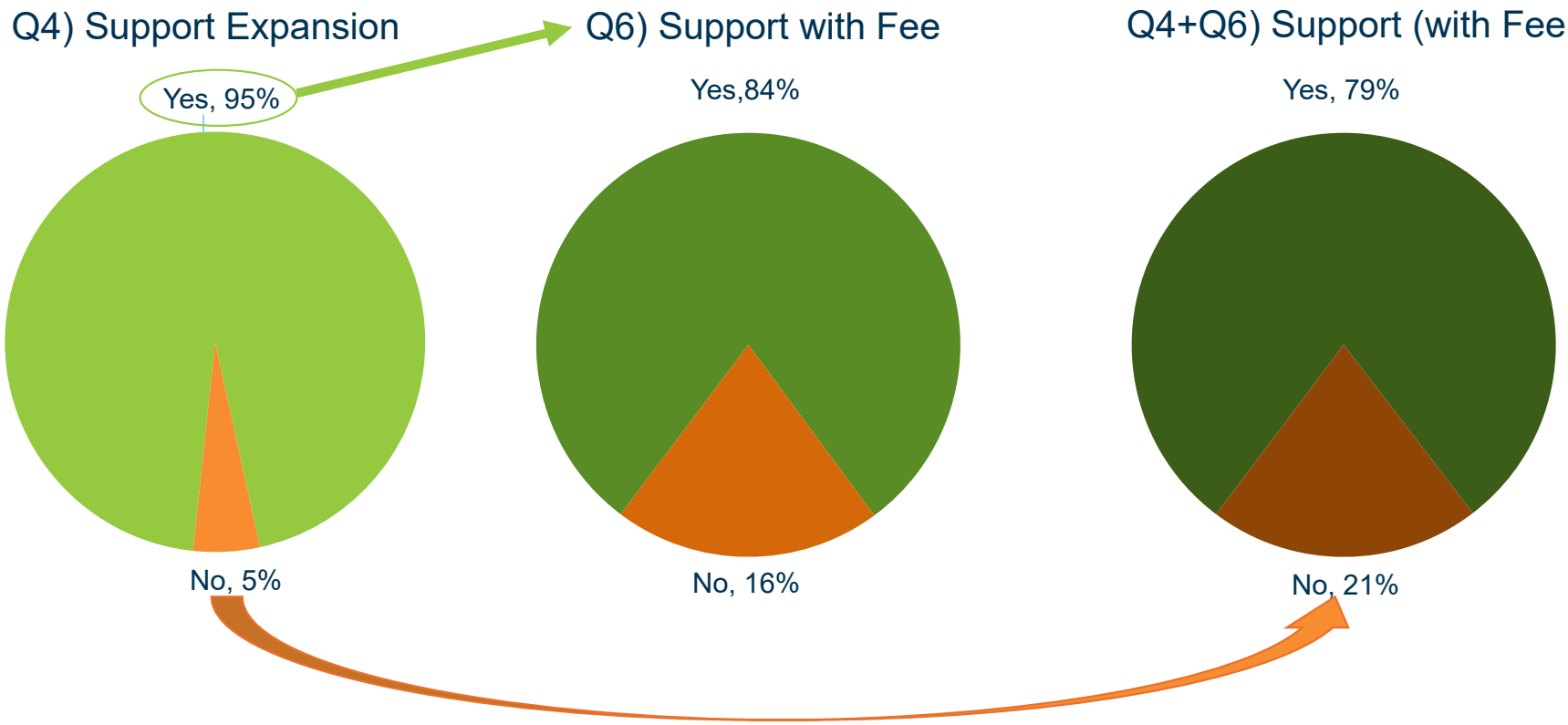


More "Yes":
- Age
  - 18 - 35 = 92%
- Income
  - > $126k = 92%

More "No" :
- Age
  - > 56 years = 23%
- Income
  - $41k - $100k = 23%

Among All Respondents, Support Remains Strong

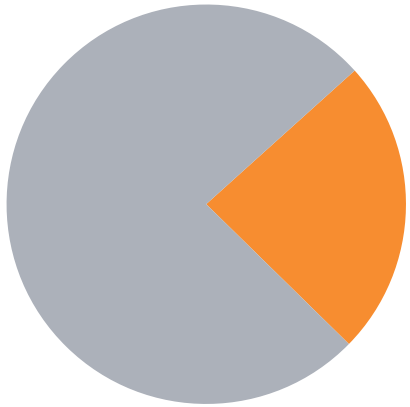
In total, 4 out of 5 customers (80%) support expansion with a fee



Past Program Participation Low

Higher past participation among younger and more affluent customers

Q7) Past Participation



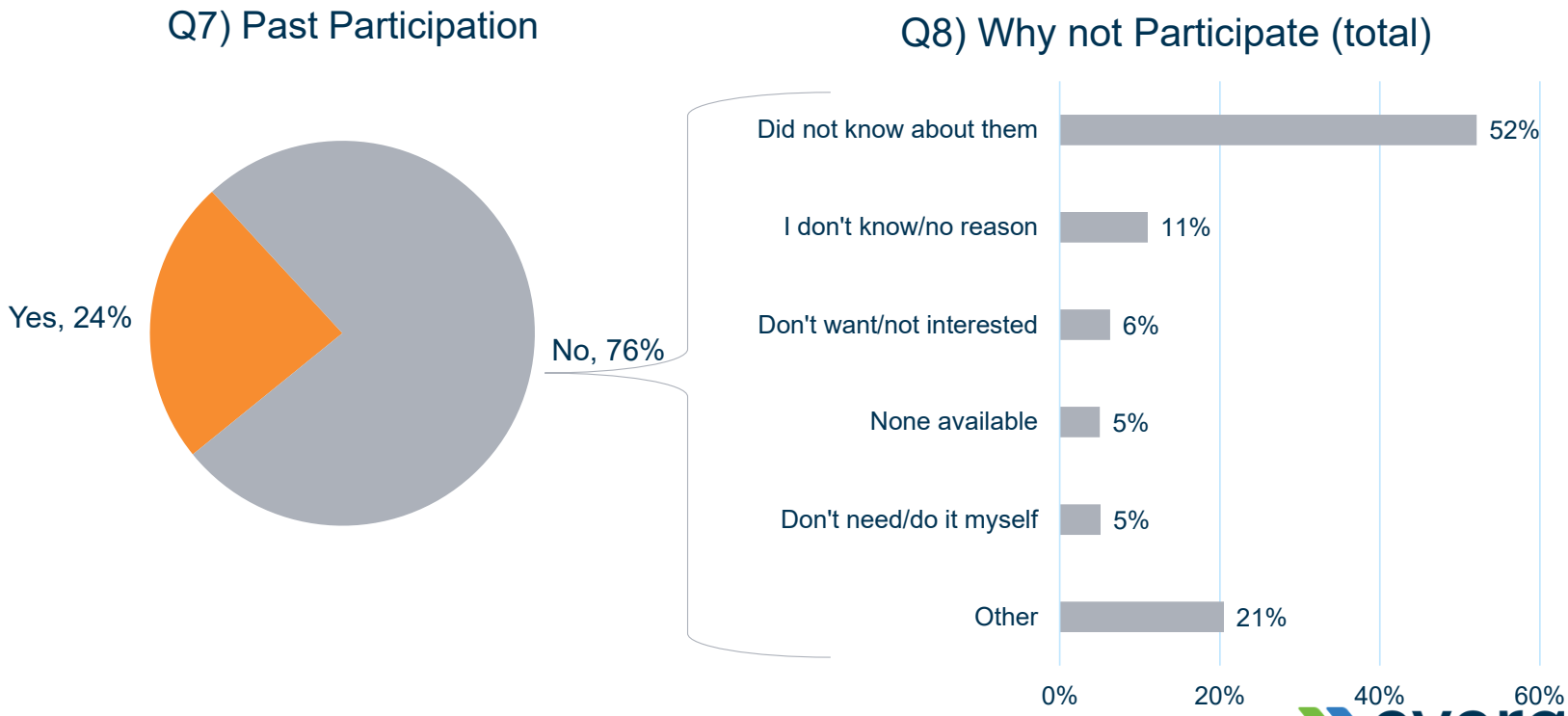
No past participation higher:
- Age
  - > 56 years = 84%
- Housing
  - Renters = 83%
- Income
  - $21k - $40k = 88%

Past participation (yes) higher:
- Age
  - 18 - 45 = 31%
- Income
  - > $126k = 49%

Q7) Have you ever participated in any programs for energy efficiency by Evergy (previously KCP&L and Westar)?

Past Program Participation Low; Lack of Knowledge

Three-quarters of Kansans have not participated, mainly because they do not know about any such programs



High Interest in PAYS Program

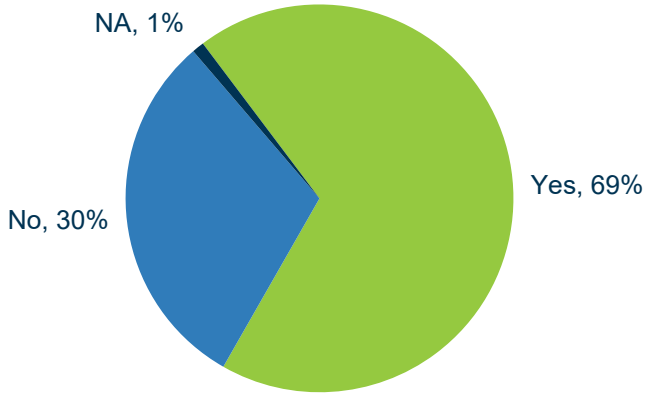
Based on description, two-thirds in participating, with higher interest among younger, lower income, and renters

Q20) Some utilities are offering on-bill financing for energy efficiency upgrades where the customer pays nothing upfront. Instead, the utility pays the installer and adds a fixed charge on the customer's monthly bill. The amount added is less than the estimated savings generated by the upgrade, allowing the customer to enjoy immediate and sustained savings (a lower monthly bill). The loan automatically transfers to future customers at that home if the customer moves.

If Evergy offered a program like this, would you be interested in participating?

Interest lower:
- Age
  - > 56 = 43%
- Income
  - $61k - $125k = 37%

Q20) PAYS Interest



Interest higher:
- Age
  - 18 - 45 = 81%
- Housing
  - Renters = 75%
  - Multi = 79%
- Income
  - < $41k = 76%
  - > $150k = 78%

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About Reducing the Use of Electricity

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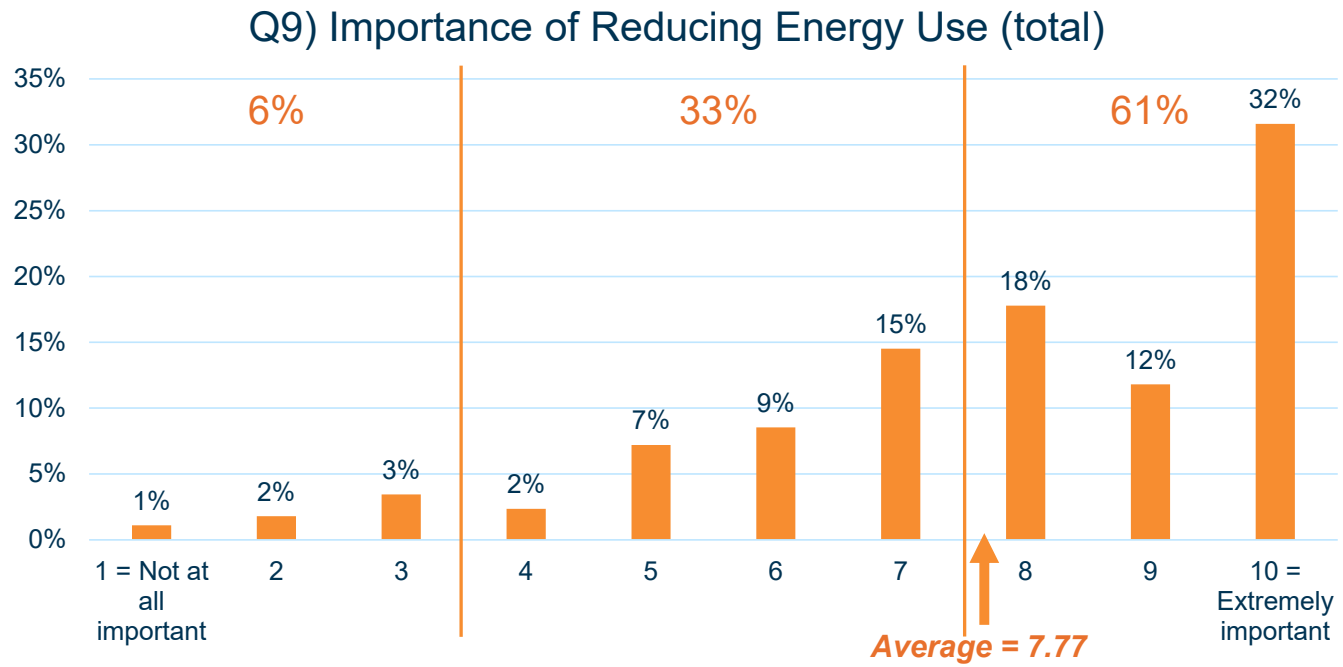
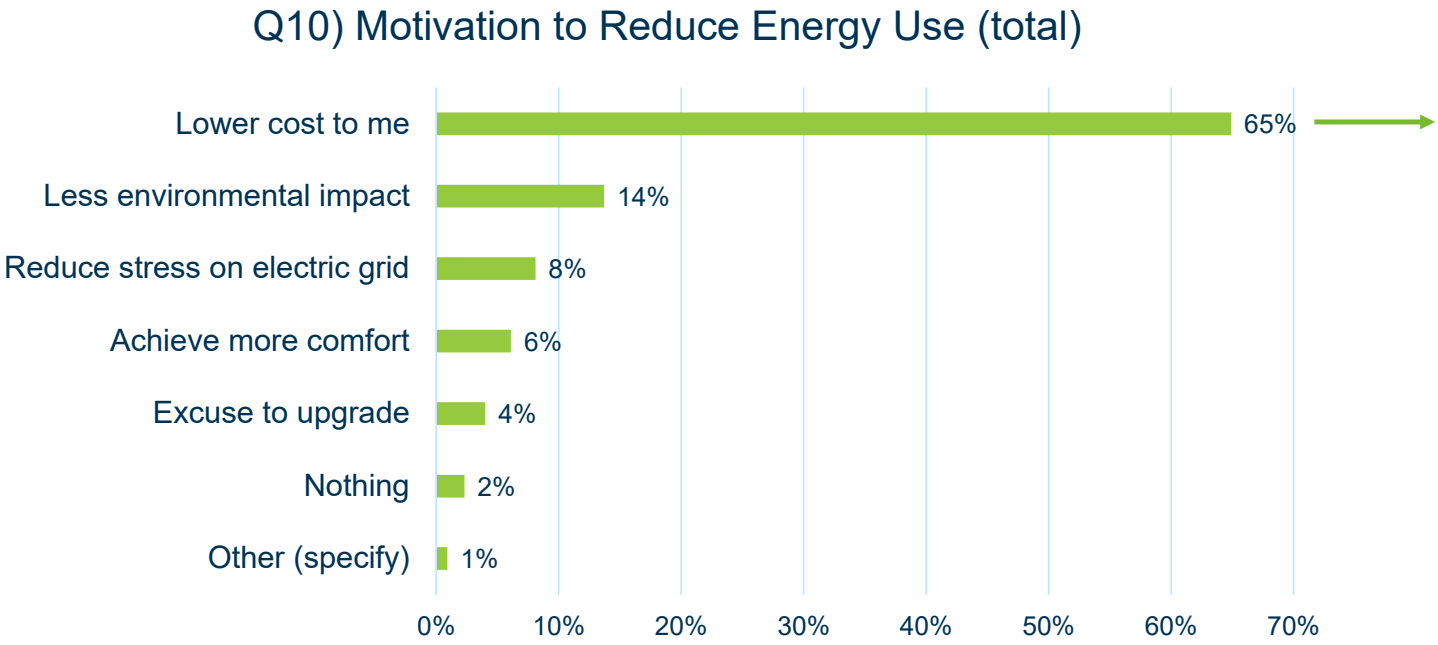
Well Over Half Agree: Very Important to Reduce Use

Across all demographic ranges, at least 52% agree that reducing energy use is very important



Key Motivation to Reduce Electricity Use is Lower Cost

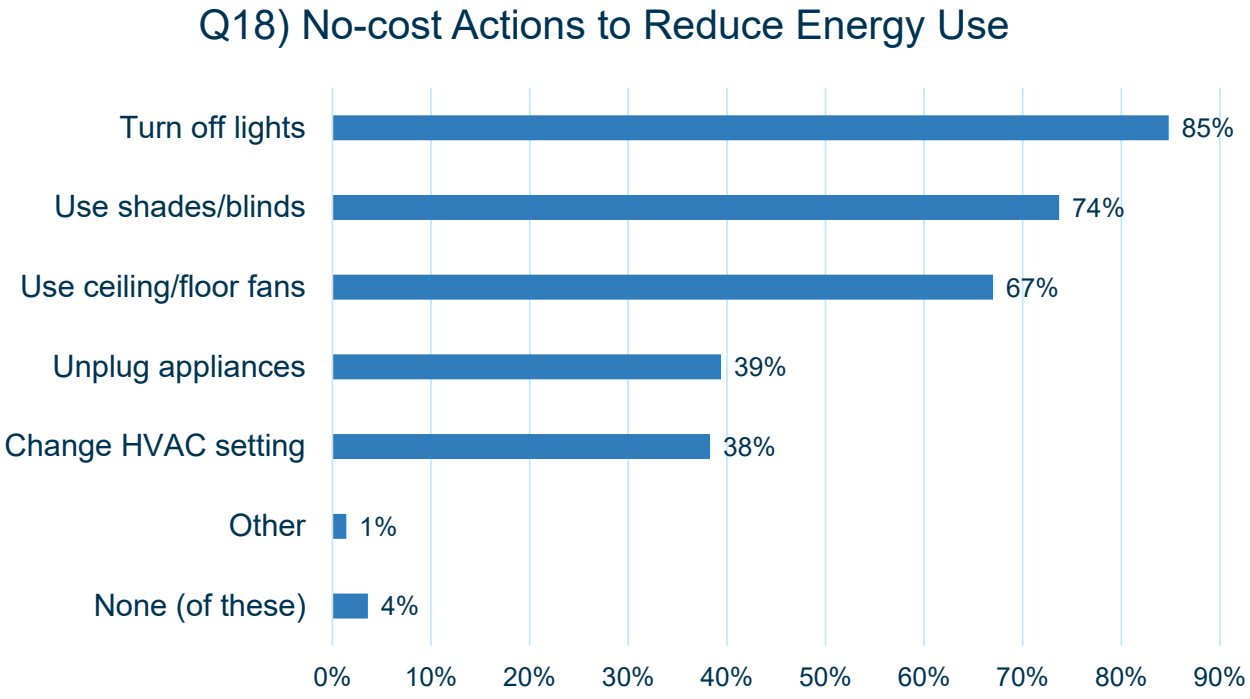
More so for age 46 - 65, renters, lower income



Cost more important:
- Age
  - 46 - 65 years = 71%
- Housing
  - Renters = 72%
- Income
  - $10k - $40k = 74%

Most Have Found "No-Cost" Ways to Reduce Use

At least two-thirds of customers turn off lights, use blinds, or use fans



Generally,

- Older customers are *more* likely to do all these things (except unplug appliances when not in use)
- Lower income, renters, and multi-family are *less* likely to change their HVAC settings when they leave

For details, please see the appendix

Smart Devices to Manage Energy Use

One-third of respondents (32%) said they use smart home devices to actively manage energy use

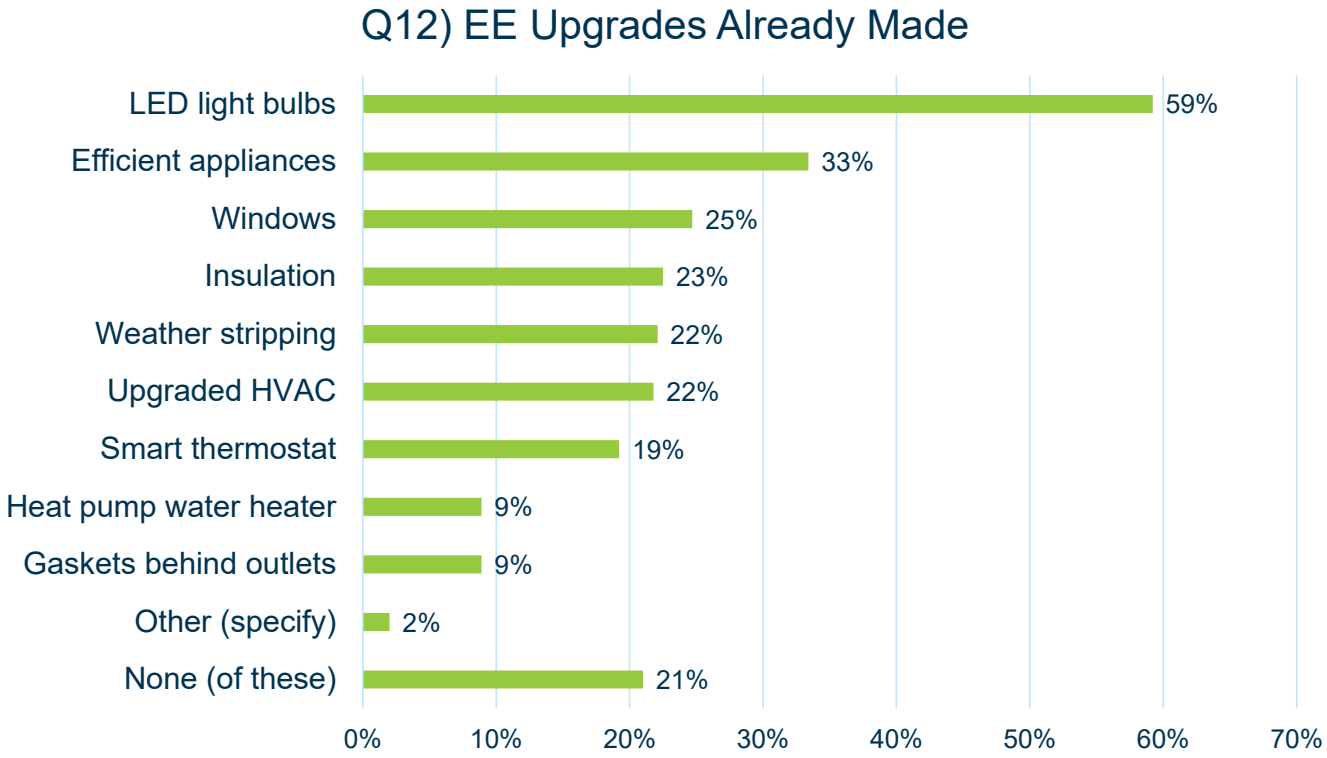
Q11) Smart Device Energy Management

Those *less* likely using devices:
- Age
  - > age 45 = 78%
- Housing
  - Renters = 78%
- Income
  - < $41k = 79%

Those *more* likely using devices:
- Age
  - 18 - 45 years = 43%
- Housing
  - Owners = 37%
- Income
  - > $126k = 62%

Energy Efficiency Upgrades Completed

More than half have already switched to LED bulbs, all else 1/3 or fewer



Those more likely to have done these things include

- Older customers
- Owners
- Single family
- Higher income

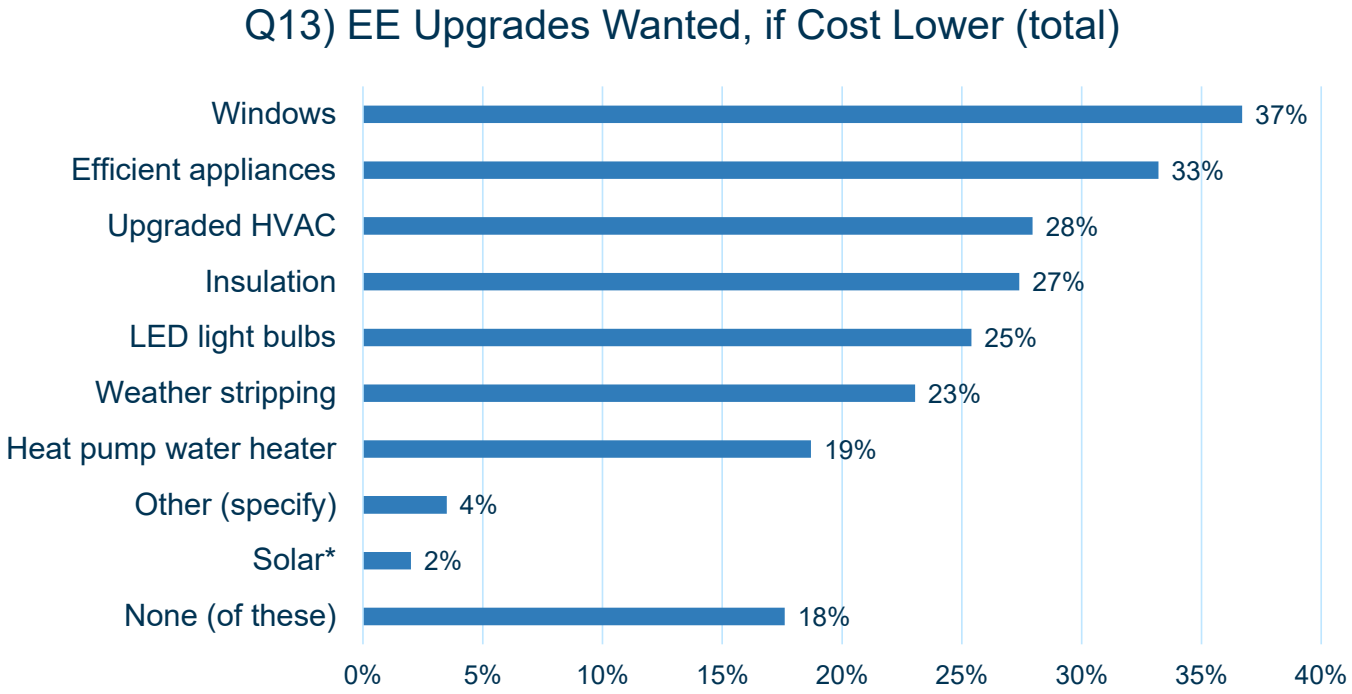
Those less likely to have done these things include

- Younger customers
- Renters
- Multi-family
- Lower income

For details, please see the appendix

Energy Efficiency Upgrades Sought

New windows, efficient appliances top the list



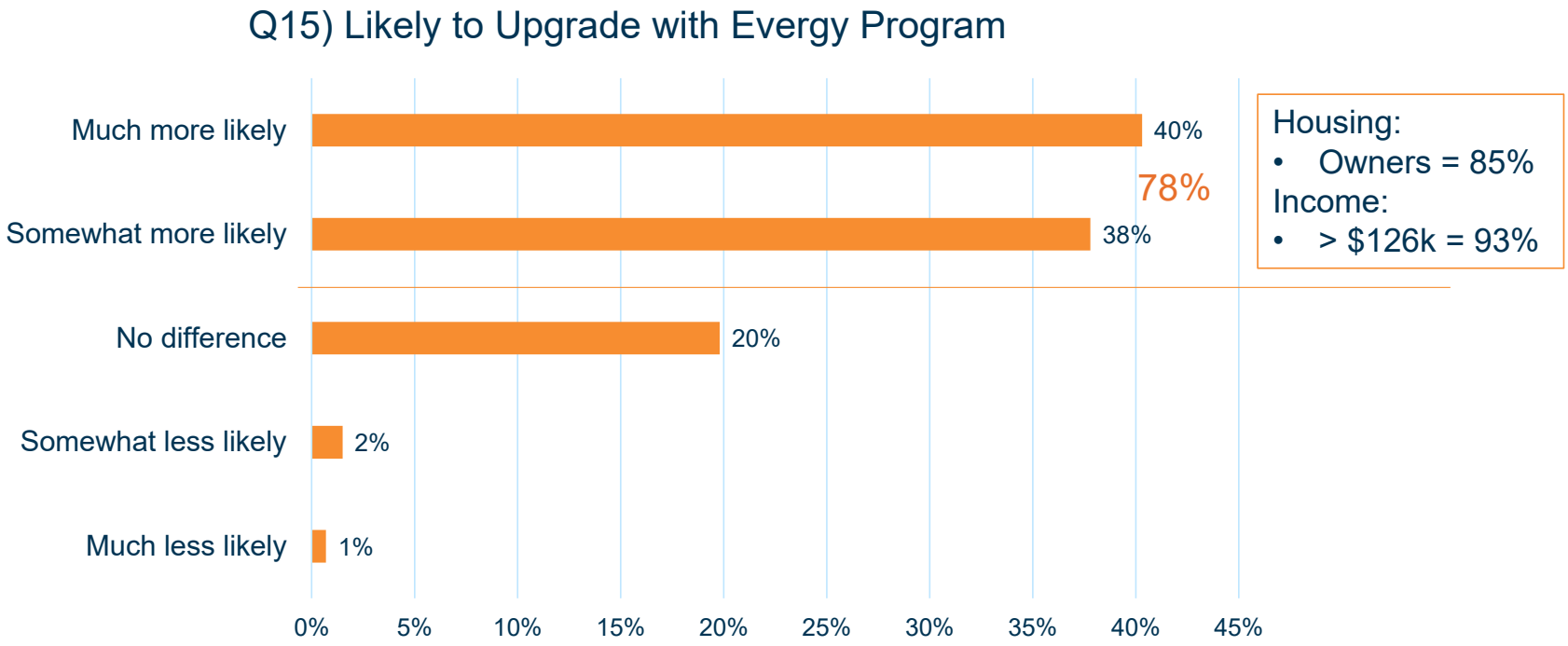
Generally, little demographic impact on upgrades sought, except:

- High income customers want new appliances
- Renters, multi-family want LEDs and weather-stripping
- Middle-ages (26 - 55) want more expensive upgrades

For details, please see the appendix

Strong Likelihood to Upgrade With Evergy Program

Three-quarters of customers are much more or somewhat more likely to upgrade, if Evergy program assisted in cost



Other Details about Energy Efficiency Programs

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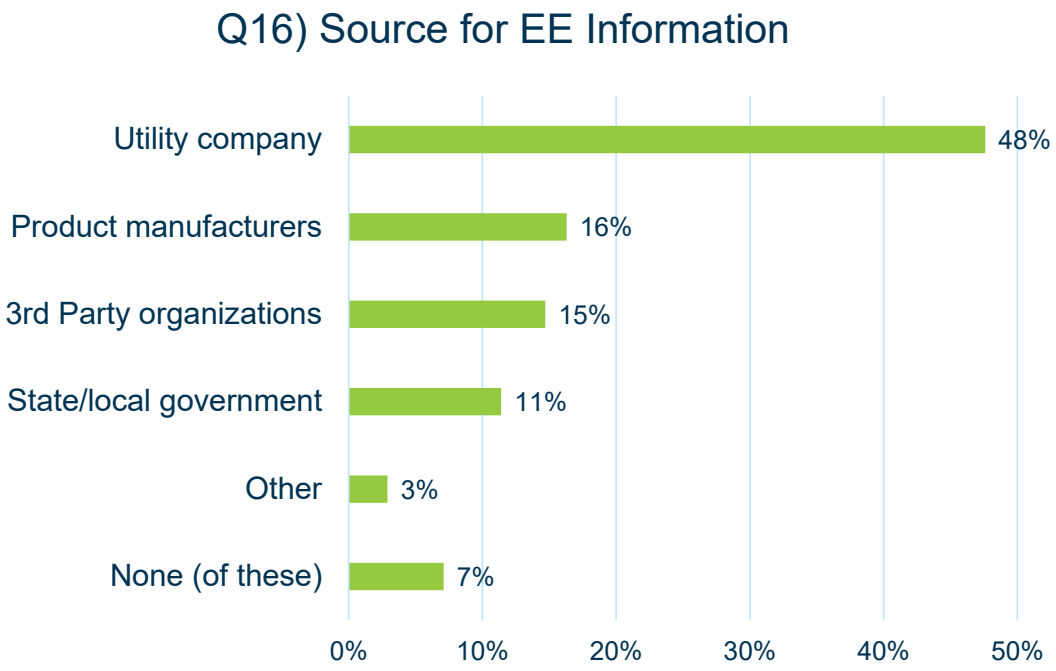
Utility Company as Information Source

About half would turn to Utility for energy efficiency information

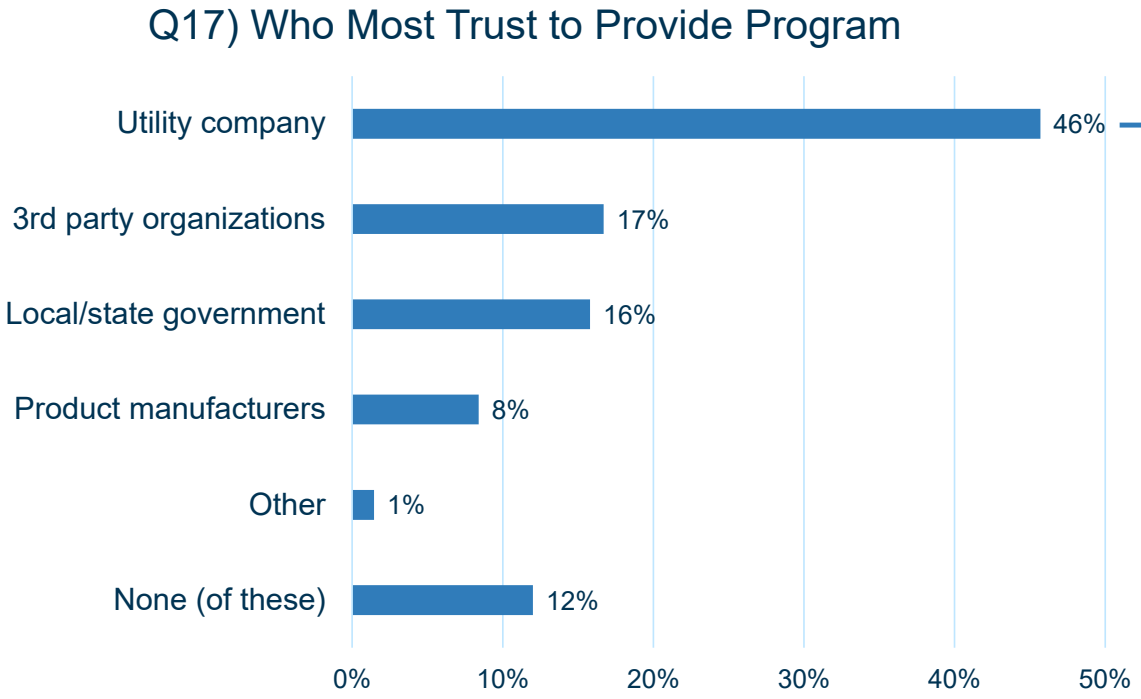


Those *more* likely to turn to utility:
- Housing
  - Renters = 52%
- Income
  - < $41k = 55%

Those *less* likely to turn to utility:
- Age
  - 18 - 25 = 39%
- Income
  - $101k - $150k = 35%

Utility Company is Most Trusted to Run EE Programs

About half would trust Utility to provide/administer energy efficiency programs



Those *more* likely to trust the utility:
- Housing
  - Renters = 52%

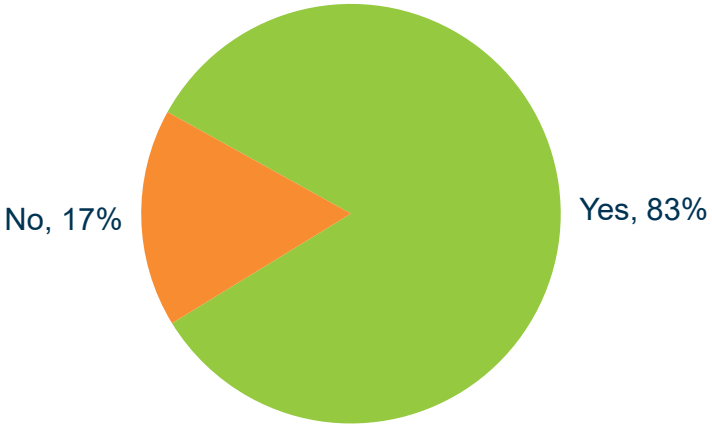
Those *less* likely to trust the utility:
- Age
  - 18 - 25 years = 34%

High Support for Extra Benefits/Offers for Low Income

At least three-quarters support, regardless of age, income, or ownership

Q19) Extras for Low Income

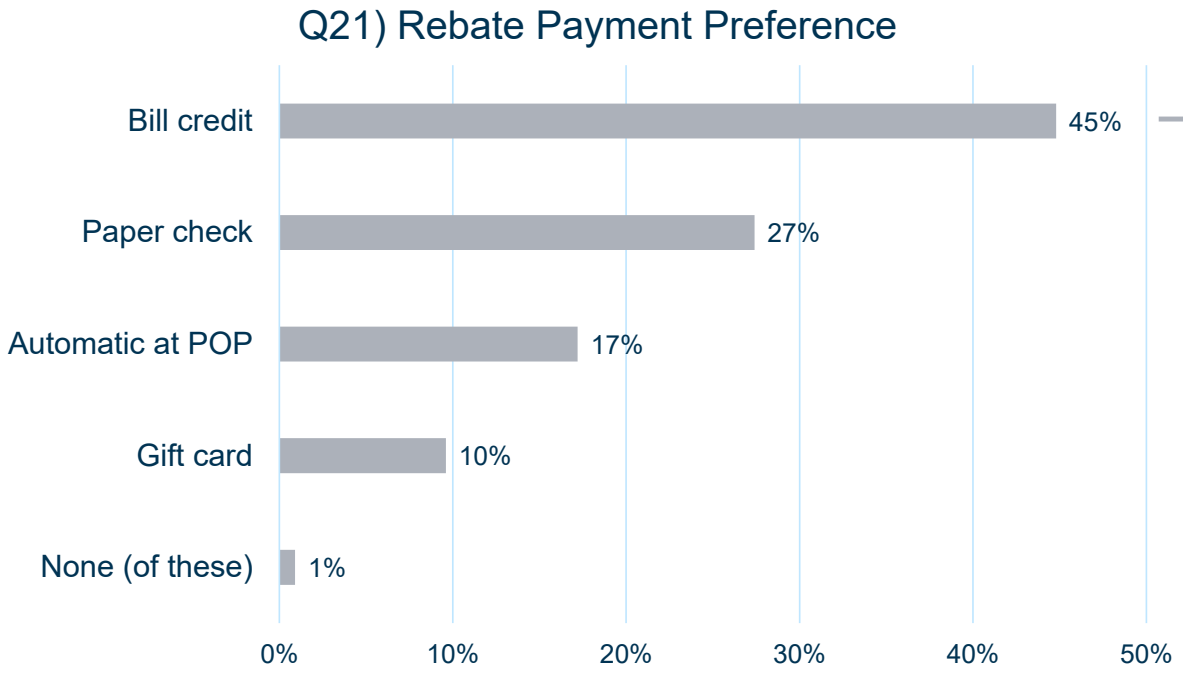
Those *less* likely to support
- Age
  - > 55 years = 24%



Those *more* likely to support:
- Age
  - 18 - 35 years = 91%
- Income
  - < $21k = 90%

Preference for Rebate Payment Format

Nearly half would prefer a bill credit (45%), followed by a paper check (28%)



Preference for bill credit *higher* for:
- Age
  - 46 - 65 years = 52%
- Housing
  - Renters = 52%

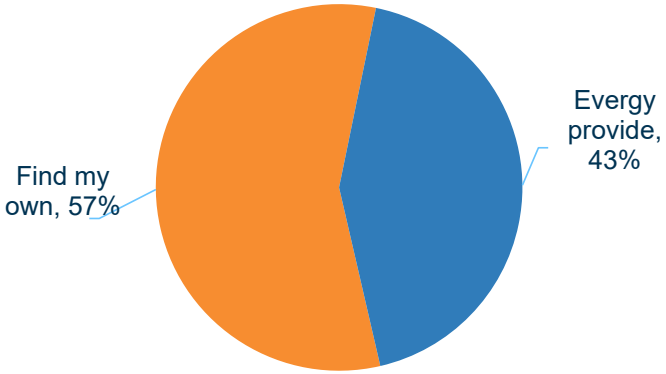
Preference for bill credit *lower* for:
- Age
  - 18 - 25 years = 32%
- Income:
  - > $126k = 36%

Customers Split on Contractor Preference

Renters are least likely to prefer finding their own contractor

Q22) Contractor Selection

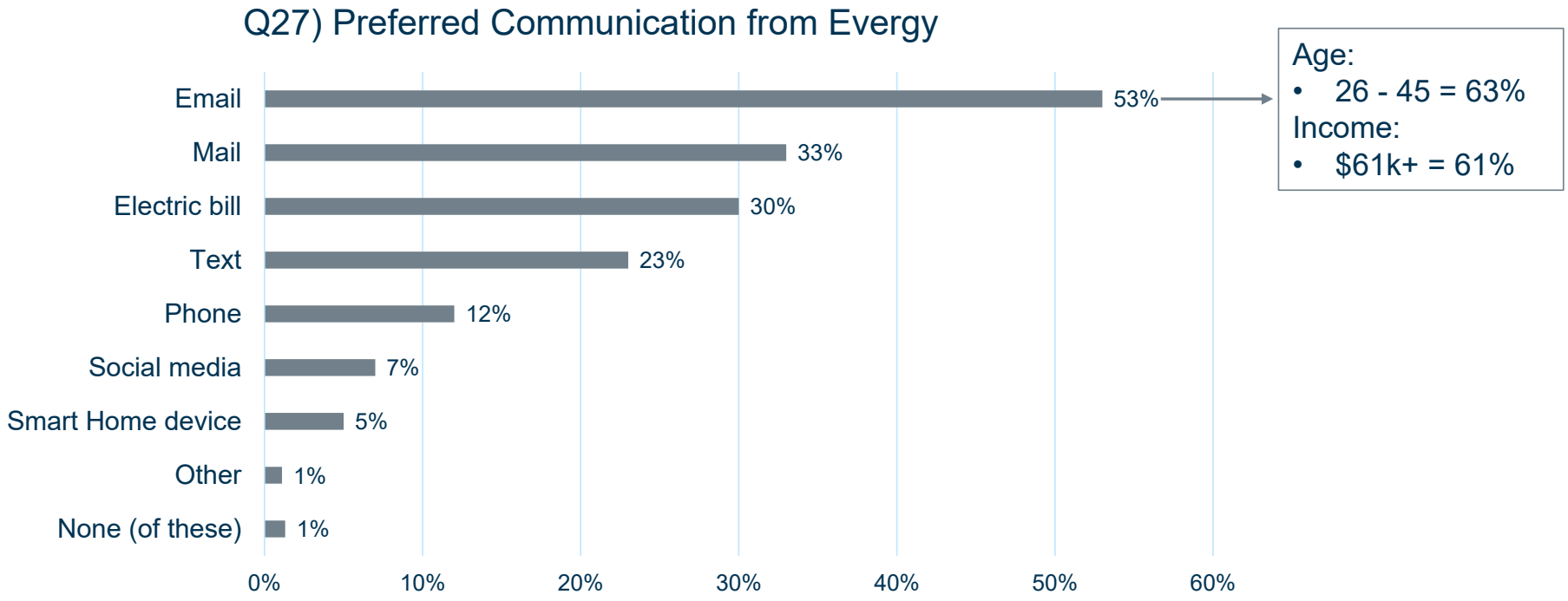
Preference for *finding own* higher for:
- Age
  - > 56 years = 74%
- Housing
  - Owners = 60%
- Income
  - $61k - $125k = 63%

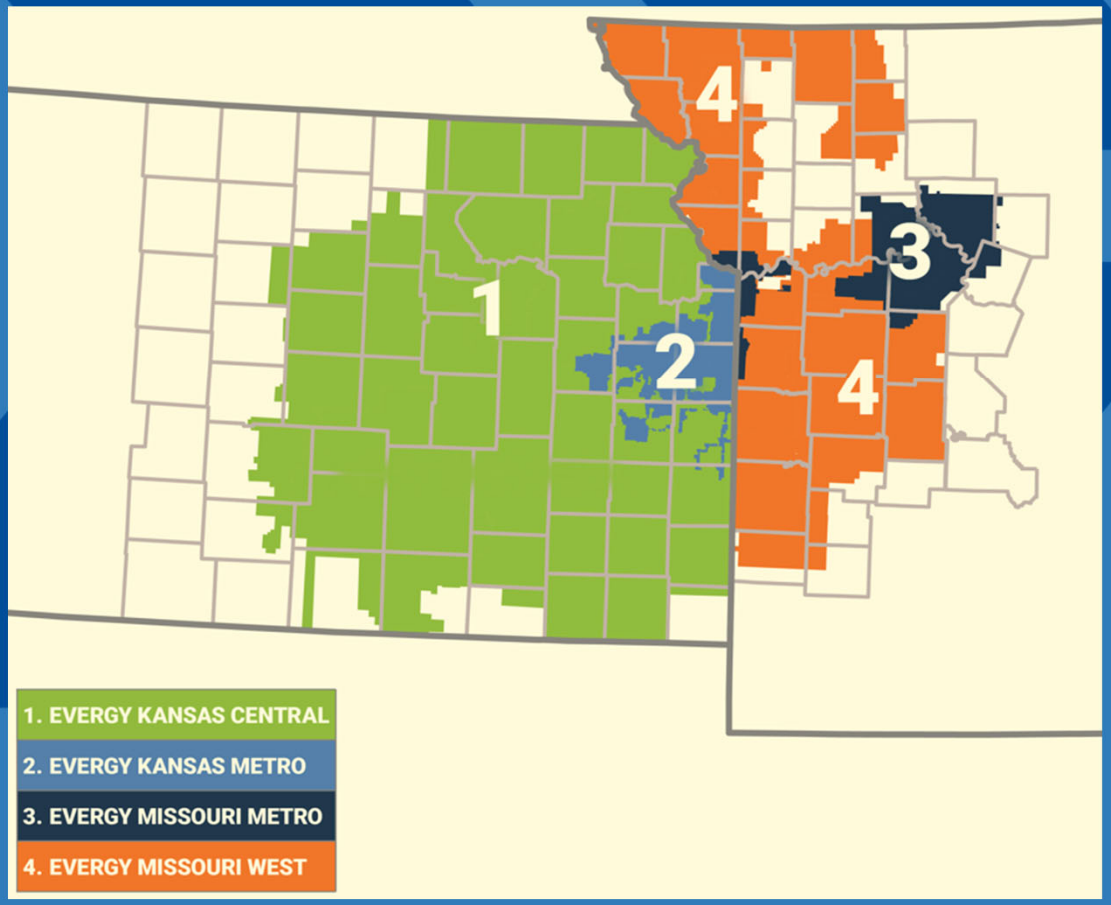


Preference for *Evergy* higher for:
- Age
  - 18 - 45 years = 59%
- Housing
  - Renters = 49%
  - Multi = 55%
- Income
  - < $21k = 49%

Communication Preference

Email is most selected across all age, housing, and income brackets





Questions?

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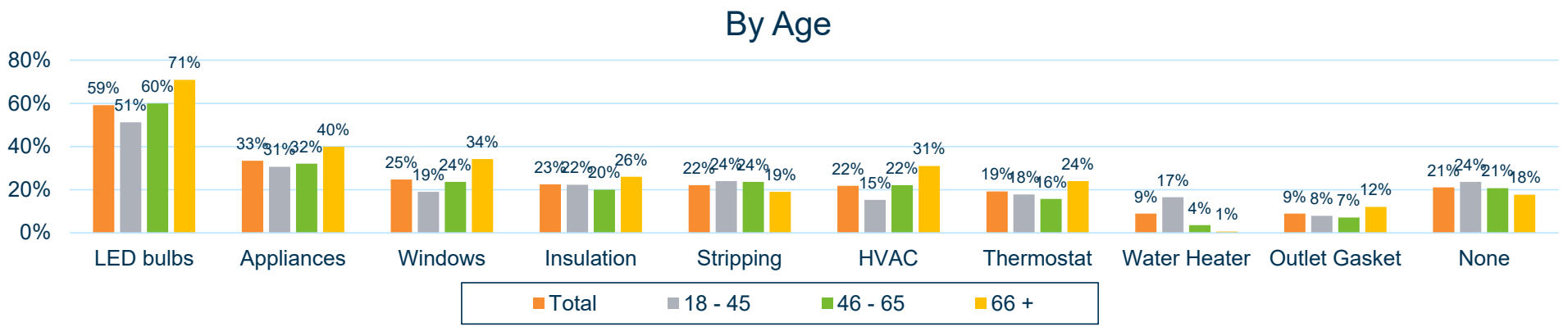
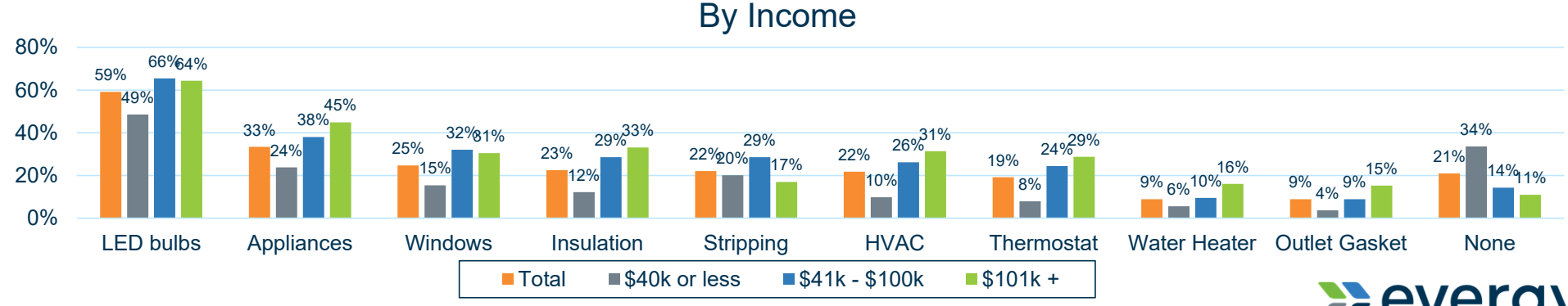
Appendix

Income, Renting Impact Ability to Make Upgrades

Fewer low-income, rental, or multi-family customers have made energy efficiency upgrades

Q12) EE Upgrades Already Made (demos)





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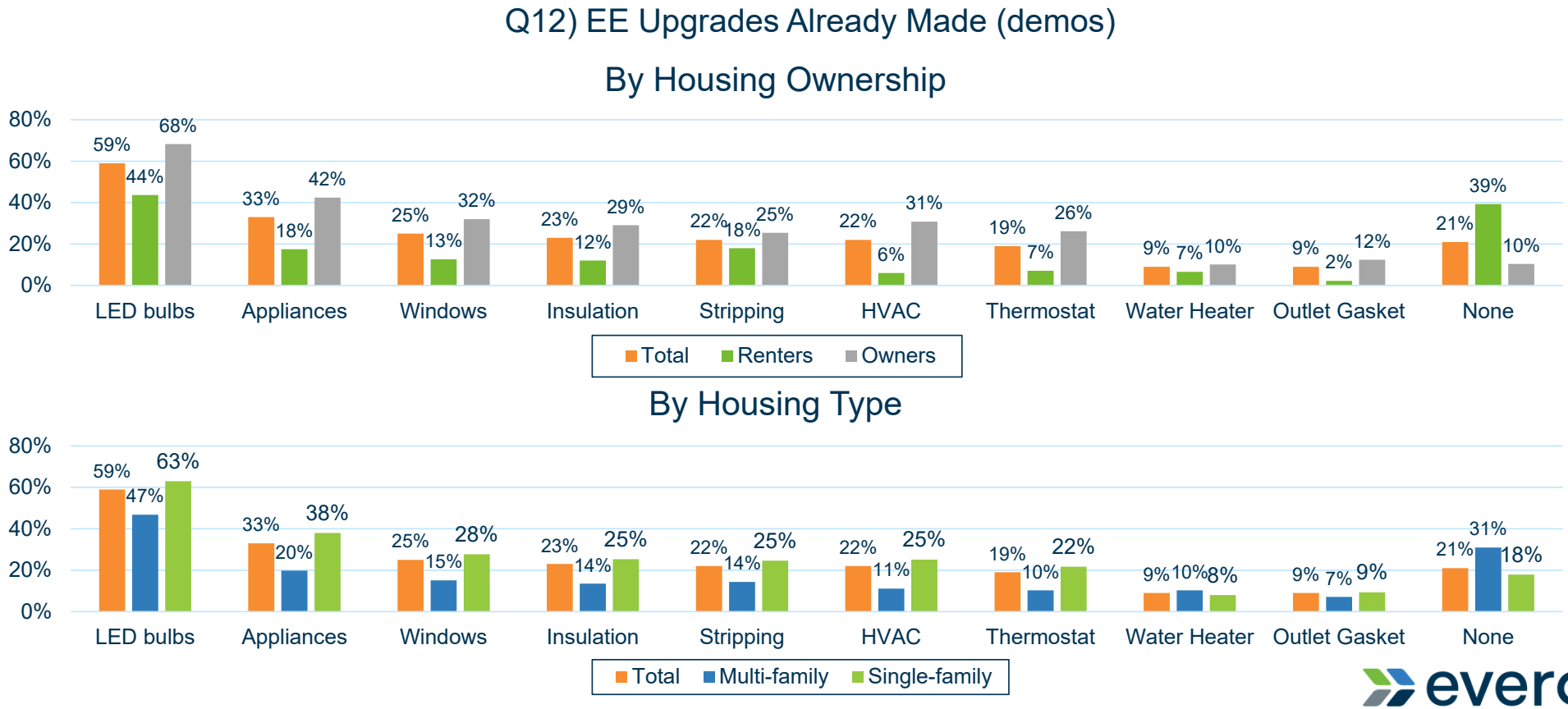
Income, Renting Impact Ability to Make Upgrades

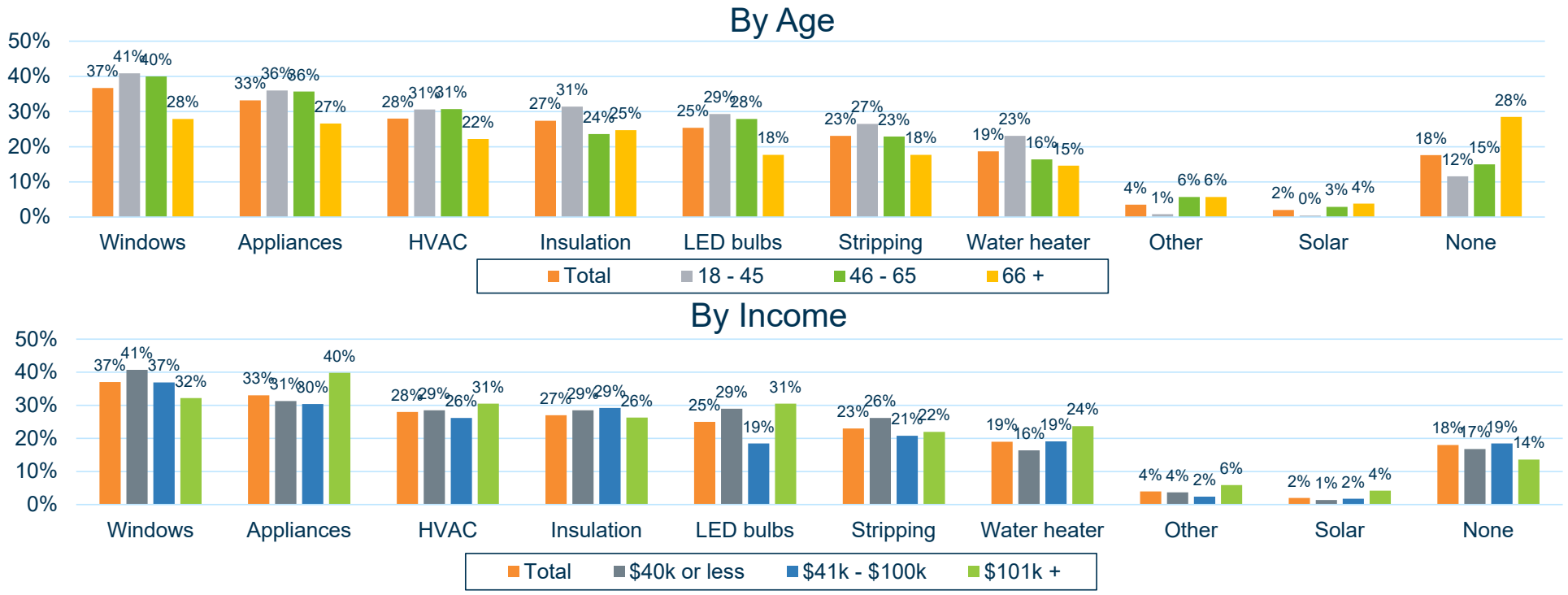
Fewer low-income, rental, or multi-family customers have made energy efficiency upgrades



Demographics: Minimal Impact on Upgrades Sought

Except high income customers want new appliances, while renters and multi-family want LEDs and weather stripping

Q13) EE Upgrades Wanted, if Cost Lower (demos)



Demographics: Minimal Impact on Upgrades Sought

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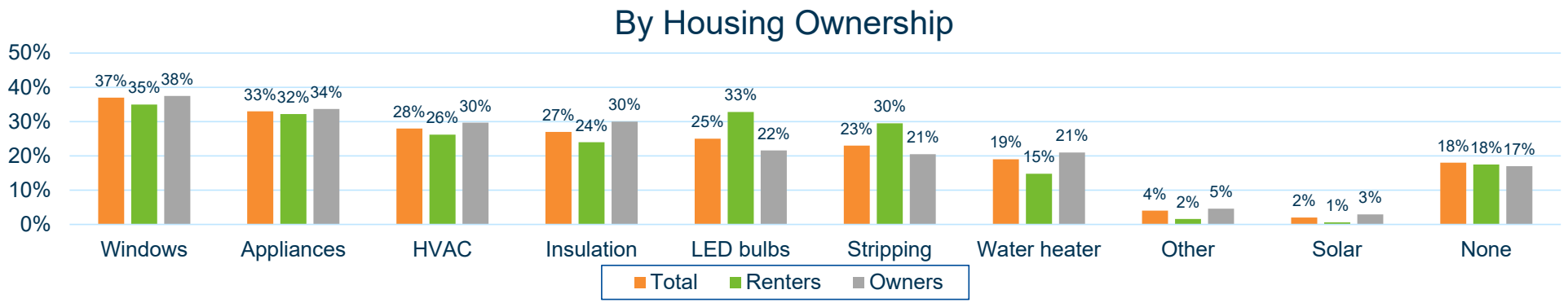
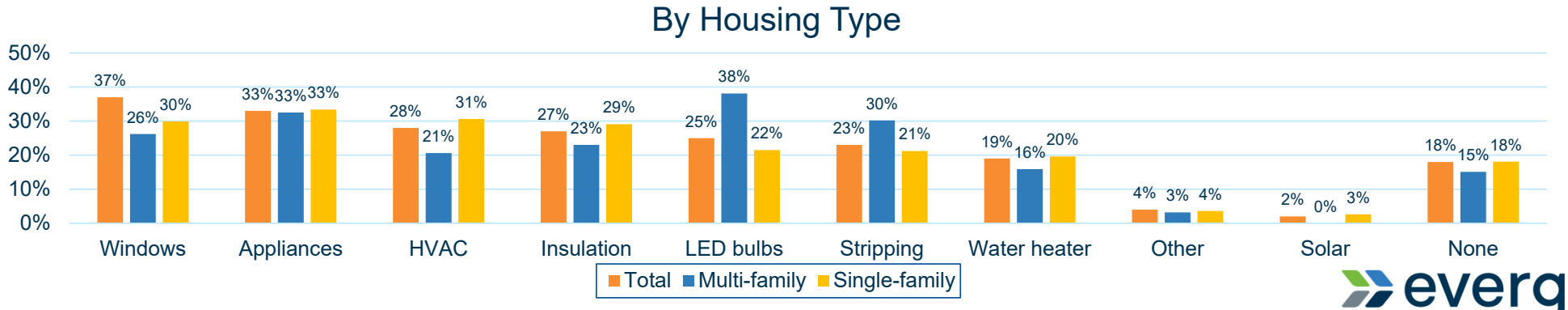
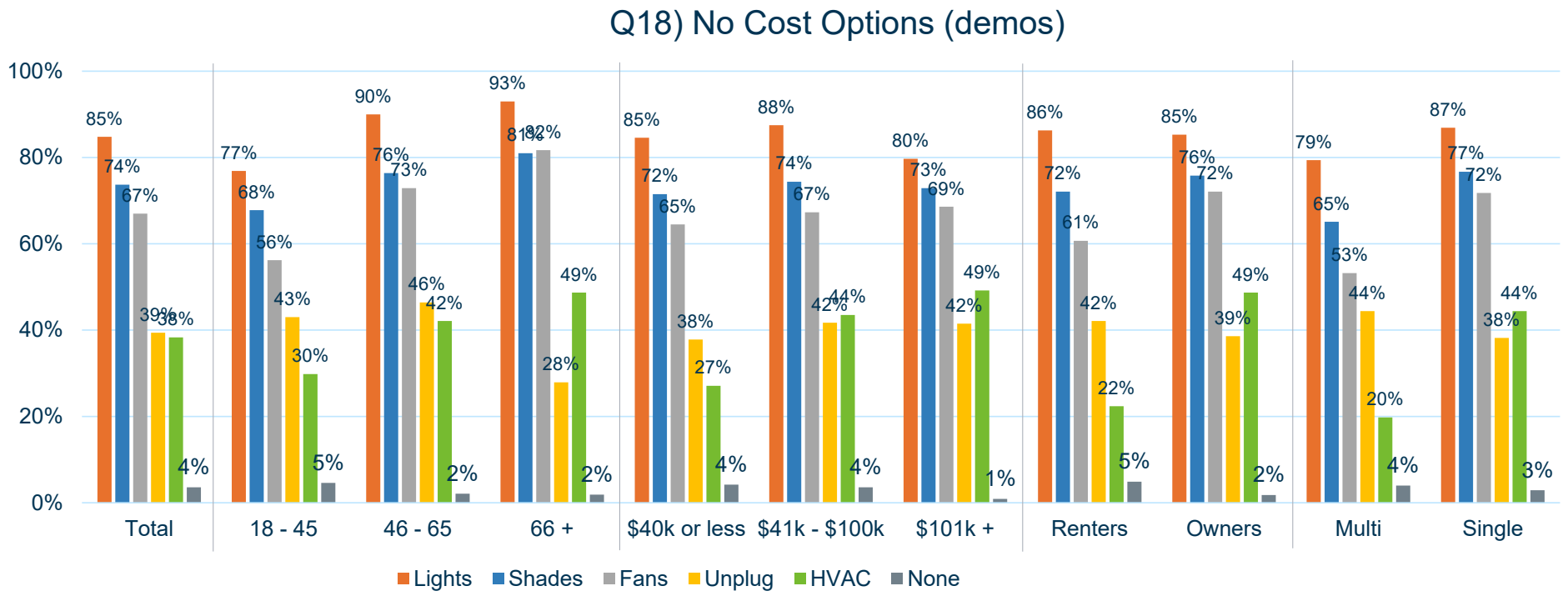
Q13) EE Upgrades Wanted, if Cost Lower (demos)





“No-Cost” Options Generally Consistent, Except for Age

Age 46 - 65 and 66+ more likely to do all of these, except unplug; also, lowest income, renters, and multi-family less likely to change HVAC settings



Demographic Comparison

Comparison of Survey data to Acxiom data (for Evergy customers)

Roughly aligned income brackets	Survey data	Acxiom data
Up to $20k	19%	12%
$20k - $40k	23%	21%
$40k - $100k	57%	46%
$100k - $125k	9%	8%
More than $125k	15%	21%

Housing ownership	Survey data	Acxiom data
Rent	35%	31%
Own	65%	69%

Housing type	Survey data	Acxiom data
Single-family	77%	NA
Multi-family	23%	NA

Age brackets	Survey data	Acxiom data
18 – 25	8%	4%
26 – 35	17%	12%
36 – 45	19%	16%
46 – 55	13%	17%
56 – 65	13%	21%
66 +	29%	29%

Appendix H. Witness Details

Section	Evergy Employee Sponsor
Section 1 Exec Summary	Kim Winslow
Section 2 Customer Insights	Kim Winslow
Section 3 Program Design	Section 3 – Tim Nelson Section 3.1.1 Avoided Cost – Kayla Messamore SPP fees – John Carlson Section 3.1.2 Portfolio Development – Tim Nelson
Section 4 – Res Portfolio	Brian File
Section 5 – Business Portfolio	Brian File
Section 6 -Incubator	Natalie Gray
Section 7- Program EM&V	Tim Nelson
Section 8 – Financial Recovery	Mark Foltz
Section 9 – Implementation	Natalie Gray
Appendix A – Detailed Program Descriptions	Brian File
Appendix B – Program Tariffs	Brian File
Appendix C – Technical Resource Manual	Tim Nelson
Appendix D – EM&V template	Tim Nelson
Appendix E – Financial Recovery / EO matrix	Mark Foltz Brian File – EO Matrix
Appendix F – EER tariff sheets	Mark Foltz
Appendix G – Customer Research	Kim Winslow