

**BEFORE THE STATE CORPORATION COMMISSION
OF THE STATE OF KANSAS**

REBUTTAL TESTIMONY OF

CODY VANDEVELDE

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

**IN THE MATTER OF THE PETITION OF EVERGY KANSAS CENTRAL, INC.,
EVERGY KANSAS SOUTH, INC., AND EVERGY METRO, INC. FOR
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. 66-117.**

Docket No. 25-EKCE-207-PRE

April 4, 2025

1 **Q. Please state your name and business address.**

2 A. My name is Cody VandeVelde. My business address is 818 S. Kansas Avenue, Topeka,
3 Kansas.

4 **Q. Have you filed Direct Testimony in this case?**

5 A. Yes. I filed Direct Testimony in this docket on November 6, 2024, and filed Supplemental
6 Direct Testimony on February 14, 2025.

7 **Q. What is the purpose of your Rebuttal Testimony?**

8 A. The purpose of my Rebuttal Testimony is to respond to certain issues and positions raised
9 by various intervenors and parties in responsive testimony filed March 14, 2025, and Cross-
10 Answering Testimony filed March 21, 2025. Specifically, I will address issues related to
11 topics covered in my Direct and Supplemental Direct Testimony, namely the manner in
12 which Evergy’s Integrated Resource Plan (“IRP”) functions and its selection of generation
13 assets, specifically the assets referred to as the McNew and Viola combined cycle gas
14 turbine (“CCGT”) facilities and the Kansas Sky solar facility.

15 **Q. Please summarize the topics covered in you Rebuttal Testimony.**

16 A. My Rebuttal Testimony responds to numerous positions and assertions made by KIC
17 witnesses Michael P. Gorman and Colin T. Fitzhenry, to positions of National Resource
18 Defense Counsel (“NRDC”) witness Anna Sommer, to issues raised by Council for the New
19 Energy Economics (“NEE”) witness William “Nick” Jones, to Citizens Utility Ratepayer
20 Board (“CURB”) witness Lucy Metz, and to Climate + Energy Program (“CEP”) witness
21 Dorothy Barnett, all regarding EKC’s IRP process and preferred portfolio.

1 **RESPONSES TO KIC WITNESSES GORMAN AND FITZHENRY**

2 **Q. Please identify the arguments or issues included in KIC witnesses Gorman and**
3 **Fitzhenry’s testimony to which you intend to respond?**

4 A. I am addressing a number of issues from Gorman and Fitzhenry’s testimony and will
5 address them one-by-one. The first issue I intend to address is KIC witness Gorman’s
6 assertion that the preferred portfolio includes the forecasted additions of significant large
7 new customer loads and that new loads are uncertain and costs to serve them are material,
8 making the preferred portfolio not reliable.

9 **Q. How do you respond to this assertion?**

10 A. Witness Gorman’s assertion is incorrect. EKC’s 2024 IRP does include some components
11 for what could be considered new or additional large load demand. Specifically, the IRP
12 model includes demand projections for the addition of Panasonic as a large load customer.
13 However, contrary to Mr. Gorman’s assertion, Panasonic has already agreed to receive
14 service from Evergy, and thus additional load attributable to Panasonic is not “uncertain.”
15 The 2024 IRP also included an additional 150 MW of load addition as a modest projection
16 of additional load attributable to economic development. However, even when the only
17 additional large load demand components included in the 2024 IRP model were these two
18 inputs identified above, the IRP model still selected the preferred portfolio, including the
19 CCGT facilities under review in this docket. Therefore, the IRP model selected the CCGT
20 assets even without introduction of the substantial forecasted new large load additions and
21 continues to select these assets when additional large load additions are included in the
22 model. This shows the robustness of this plan and why it has continued to be EKC’s
23 preferred portfolio throughout.

1 As such, it is incorrect to suggest that the preferred portfolio is dependent on
2 substantial uncertain large load additions. Contrary to Mr. Gorman's assertion, the new
3 generation resources are not intended to serve any specific additional large-load customers.
4 Rather, the need for the units is driven by a variety of factors, including reliable and
5 confirmed projections of load growth, both from native load and from additional large load
6 customers, as well as other factors and risks taken into account by the IRP, including but
7 not limited to resource adequacy initiatives required by SPP, possible future carbon
8 constraints, and risks of EPA greenhouse gas rules.

9 **Q. How do you respond to the assertion that substantial additional large load growth**
10 **that has been forecasted is "uncertain"?**

11 A. This assertion is also incorrect. As highlighted in the Direct Testimony of Staff witness
12 Justin Grady at page 34, Evergy's current projection anticipates load growth of 2-3%
13 annually from 2024 through 2029, which is primarily driven by native load and growth
14 from large customers that are in active construction today. In addition to those customers
15 already building their facilities, there is at least 10 GWs of additional potential load growth
16 currently in Evergy's large load customer pipeline. As Mr. Grady points out, and as EKC
17 has stated throughout this docket and its IRP docket, this level of growth is not only
18 forecasted by Evergy but is nearly uniformly anticipated and forecast throughout the industry,
19 including throughout SPP territory as shown in SPP's 2024 Integrated Transmission Plan.¹
20 The resources under review in this docket are part of a modernized, expanded, and diversified
21 generation fleet needed to help address not only this new load growth from all customer

¹ SPP's 2024 Integrated Transmission Plan (ITP) is the organization's biggest-ever single portfolio of transmission enhancements in terms of both size and value, designed to add more than 2,000 miles of new and upgraded transmission lines to the region's grid. The SPP Board of Directors approved the historic \$7.7 billion plan in October 2024. See: <https://www.spp.org/media/2229/2024-ity-assessment-report-v10.pdf>

1 groups within Evergy's territory, but also to properly address and respond to previously
2 stated risks and factors analyzed by the IRP model.

3 In addition, as the Commission is aware, it is important to note that Evergy has also
4 filed a separate Large Load Tariff docket, 25-EKME-315-TAR ("LLPS Docket"), designed
5 to establish the terms of service and additional tariffs governing large load customer
6 additions. That docket is discussed in more detail in the Rebuttal Testimony of Darrin Ives.

7 **Q: What other positions in Gorman and Fitzhenry's testimony do you intend to address**
8 **in your Rebuttal Testimony?**

9 A: The next issue that I will address are the assertions by KIC witnesses Gorman and Fitzhenry
10 regarding the assumptions related to coal retirements and the impact on the IRP results.
11 Initially, KIC witness Fitzhenry asserts that EKC selecting the addition of new resources
12 is more expensive than delaying Jeffrey 2 until 2039. First, the specific NPVRR
13 comparison that Mr. Fitzhenry references in his testimony is not relevant because it
14 was the result of a limited analysis that re-ran the NPVRR rankings tables from the 2024
15 IRP after only changing the new natural gas resource costs and attributes. A more
16 appropriate and comprehensive IRP evaluation that re-optimizes capacity expansion
17 would give a more accurate comparison of the NPVRR difference between portfolios
18 resulting from various planning assumptions. EKC's 2025 IRP will do just that and will
19 specifically re-consider the economics of delaying the Jeffrey 2 retirement.

20 Second, as explained in my Direct Testimony, EKC's 2024 IRP preferred
21 portfolio was the third lowest NPVRR alternative resource portfolio on an expected
22 value basis. The only two plans that had lower NPVRR estimates were plans that
23 included a delayed retirement of Jeffrey 2 (from 2032 to 2039). However, as also

1 explained in my opening Direct Testimony, cost was among the factors considered, but
2 was far from the only factor considered, in formulating the preferred portfolio. As I
3 explain, the preferred portfolio advances Evergy's long-term strategy for responsibly
4 transitioning generation away from aging coal units over time while maintaining a
5 diverse asset mix and sufficient flexibility to make appropriate planning adjustments.
6 The plan's flexibility allows us to focus on reliability and affordability while adapting
7 to environmental, technological, and market opportunities and challenges. This
8 includes incorporation of a risk analysis that analyzes four of twelve uncertain factors,
9 including natural gas prices, CO2 restrictions, construction costs, and load growth, and
10 an evaluation of each of the resource plans based on performance in future scenarios
11 with varied levels of the four main critical uncertain factors. The expected NPVRR
12 metric takes into account the critical uncertain risk factors and incorporates them into the
13 NPVRR analysis on a weighted-average risk basis. Therefore, although the IRP process
14 did not select the absolute lowest NPVRR portfolio, it selected the portfolio that
15 performed best under all the factors analyzed in the NPVRR analysis. This appropriately
16 includes the risk analyses based on the critical uncertain factors. In other words, the
17 preferred portfolio performed best when measured by both quantitative cost measures
18 and qualitative risk responsiveness and flexibility factors, which are extremely
19 important when selecting a preferred portfolio.

20 **Q. Are these factors and analyses discussed in Staff's Direct Testimony, and if so, what**
21 **are Staff's conclusions regarding the reasonableness of EKC preferred portfolio and**
22 **selection of the CCGT assets?**

1 A. These analyses are discussed in depth in Staff witness Justin Grady's testimony on pages
2 27-45. In his testimony, Mr. Grady analyzes the selection of the CCGT assets in light of
3 an array of relevant factors, not limited just to cost, but included anticipated coal
4 retirements, load growth in Evergy's territory and in SPP generally, the CCGTs in a carbon
5 constrained future, stranded asset risks, risk of EPA greenhouse gas rules, Resource
6 Adequacy initiatives of SPP, improved fuel diversification, and responsiveness to Kansas
7 energy policy makers, specifically including the Kansas legislature and Governor's office,
8 which passed the new revisions to K.S.A. 66-1239 with near unanimous support. Based on
9 these broad industry-wide factors, which are also discussed in my Direct Testimony, and
10 accurately discussed in Mr. Grady's testimony at pages 27-45, the selection of the CCGT
11 resources is reasonable under all factors, despite the fact that the preferred portfolio is not
12 the absolute lowest NPVRR cost portfolio.

13 **Q: Are there additional positions related to the retirement of coal resources in the KIC**
14 **witnesses' testimony to which you would like to respond?**

15 A: Yes. In addition to the above assertion by Fitzhenry, witness Gorman also asserts that
16 EKC's preferred portfolio assumes the retirement of coal-fired production resources earlier
17 in the IRP planning period, which inflates the revenue requirements and distorts the IRP
18 planning economic projection of the NPVRR for resource portfolios that includes plants
19 that are already retired. He also asserts that changing the Commission's approved expected
20 remaining life of the production facilities increases the cost of resource portfolios that
21 include the coal resources. He states that, as a result, the Company's planning result is
22 biased towards portfolios that rely on CCGTs.

1 **Q. How do you respond to these assertions by Mr. Gorman?**

2 A. Mr. Gorman is incorrect in his understanding of how these costs are modeled. The coal
3 retirement IRP scenarios do not function in the fashion that he describes and do not inflate
4 the NPVRR of portfolios that include the coal resources. The Evergy modeling evaluates
5 the going-forward cost of continuing to operate coal resources as compared to the cost to
6 develop and operate new resources. The model also treats existing book value as a sunk
7 cost which does not vary among resource plans with different retirement dates, and assumes
8 the remaining book value of coal resources will be recovered over the same time period no
9 matter the retirement date. Specifically, the NPVRR associated with existing remaining net
10 book value of coal assets is the same in scenarios where Jeffrey Unit 2 retires in 2030 and
11 in scenarios where it retires in 2039. In order to continue to operate the coal resources,
12 Evergy must continue to invest in them, therefore, it is extremely difficult to perfectly time
13 a retirement to when resources are “fully depreciated.” The IRP appropriately considers the
14 risks and cost savings associated with continuing to spend capital to replace equipment and
15 make necessary environmental upgrades to prolong the operation of the coal units or retiring
16 the resources and meeting energy and capacity needs through other investments. Therefore,
17 the NPVRR economic analysis does not distort resource portfolios that include the coal
18 resources running longer, nor does it bias the IRP model to favor CCGTs.

19 **Q. Do you have any other criticisms with respect to Mr. Gorman’s analysis as it relates**
20 **to the cost and economic viability of retirement of coal facilities?**

21 A. Yes. As stated above, Mr. Gorman states that the preferred portfolio assumes the retirement
22 of coal-fired production resources earlier in the IRP planning period have not been proven to
23 be economic. It appears this assertion is based on a misapplication, and frankly a

1 misrepresentation, regarding the statutory language of K.S.A. 66-1239 as it relates to
2 predetermination of costs of construction of new gas fired generation facilities. On Page 7
3 of Mr. Gorman’s testimony, he includes cherry-picked quotations from various portions of
4 K.S.A. 66-1239, and includes the following language:

5 [T]he abandonment or retirement is not expected to harm the utility's customers
6 or decrease the utility's regional rate competitiveness by causing the utility to
7 experience higher costs than would be expected by continuing to operate such
8 electric generating unit in compliance with applicable law, unless, consistent with
9 the integrated resource planning framework utilized by the commission, the
10 commission determines that such higher costs are justified by other factors that
11 are specified by the commission.

12 Mr. Gorman seems to suggest that this language provides a specific precondition that Evergy
13 must meet in order to utilize the predetermination procedures related to construction of new
14 gas-fired facilities. This is a misrepresentation. The above-quoted language in subsection
15 (c)(4)(B) of K.S.A. 66-1239, which is expressly related to or applicable to “requests by a
16 public utility for a determination of ratemaking principles and treatment relating to the
17 abandonment or retirement of a nuclear powered or fossil fuel-fired electric generating unit
18” EKC is not making a request for predetermination of any abandonment costs in this
19 docket. The relevant subsections of the statute as it relates to EKC’s Petition are (c)(1), (2)
20 and (3), which do not include language related to abandonment costs. Mr. Gorman is
21 apparently seeking to inject issues related to abandonment costs of retired coal plants into
22 this docket to create a false prerequisite for obtaining predetermination of construction costs.
23 This prerequisite is not provided by the applicable statutory language is not relevant to EKC’s
24 application in this docket.

1 **Q: Witness Gorman also asserts that the cost of the CCGTs may be far more expensive**
2 **than estimated by EKC in the IRP analyses because EKC did not identify the cost of**
3 **firm gas delivery capacity or adequate amounts of backup fuel storage. How do you**
4 **respond to this assertion?**

5 A: Again, Mr. Gorman is incorrect as to what costs are included in the IRP modeling analysis.
6 As stated above, the IRP model is a full production cost model and incorporates estimated
7 gas costs, including costs associated with firm gas transport service, as an ongoing cost of
8 operation for the purpose of modeling the cost of the various portfolios analyzed in the IRP
9 process. EKC has included estimated costs of gas supply in the IRP process for the purposes
10 of modeling costs of various portfolios including CCGT facilities, that result in the
11 preferred portfolio. EKC did not include fuel costs in its definitive cost estimates for the
12 CCGT facilities in this application, and it is not seeking predetermination with respect to
13 those costs since it would be inappropriate to do so. It has focused its predetermination
14 request and its definitive cost estimates on capital costs to construct the facilities. However,
15 the fact that these costs are appropriately not included in the definitive cost estimates does
16 not mean they were not included in the IRP model analysis that selected the units to meet
17 customer needs.

18 **RESPONSE TO NRDC WITNESS SOMMER**

19 **Q. How do you respond to Ms. Sommers' assertion that the CCGT capital cost assumption**
20 **used in the initial IRP is materially low and out of line with other assumptions around**
21 **the country?**

22 A. As I stated in my Direct and Supplemental Testimony, when EKC received its initial owner's
23 engineer informed estimates for the CCGT facilities, it was clear that the costs had

1 substantially increased from the estimated costs included in the IRP analysis. In response,
2 EKC performed an updated IRP analysis incorporating new cost figures, both at the time of
3 the initial cost estimates and at the time of the definitive cost estimates. As I have stated
4 repeatedly, even with these new cost figures, the IRP model still selected a preferred portfolio
5 that included the CCGT facilities.

6 **Q. Do you agree with Ms. Sommer's assertion that Evergy will hold a buffer of capacity**
7 **above currently mandated SPP reserve margin in anticipation of changes to the**
8 **SPP reserve margin requirements?**

9 A. Yes. EKC's IRP does hold a buffer of capacity above currently mandated SPP reserve
10 margins because, as stated above, those margins and the performance of our assets are subject
11 to change. In the 2024 IRP, EKC generally planned for a 2% reserve margin buffer above
12 future SPP indicative reserve margin requirements. This equates to just an approximately 100
13 MW buffer on a more than 5,000 MW load. In addition, the risk that some operational issue
14 would cause the accreditation of EKC's facilities to fall below SPP minimum requirements
15 is a substantial risk that warrants the use of a buffer. In other words, this strategy should be
16 viewed as a prudent operational measure to protect SPP accreditation of EKC's assets, and
17 to hedge against normal operational issues that would otherwise cause EKC's facilities to fall
18 below the SPP minimum reserve margins.

19 **RESPONSES TO NEE WITNESS JONES**

20 **Q. How do you respond to NEE witness Jones' criticism of EKC's IRP process and his**
21 **assertion that a higher natural gas forecast should be utilized in Evergy's modeling**
22 **process?**

1 A. This assertion is incorrect. Evergy's estimates for fuel costs in the 2024 IRP do not
2 underestimate actual fuel costs or bias the model in favor of CCGT facilities. First, Mr. Jones'
3 assertion is based on an assumption that EKC simply utilized the Henry Hub national price
4 benchmark to forecast gas prices. In reality, Evergy adjusted this benchmark price by the
5 Panhandle Eastern basis differential for the purposes of its forecast in its most recent IRP.

6 Evergy used recognized vendor forecasts to form its mid natural gas price forecast
7 and used EIA modeling results to create high and low forecast sensitivities that are based
8 on long-term fundamental supply and demand drivers expected to influence natural gas
9 prices. The IRP process considers expected resource economics over a 20-year time
10 horizon and the use of three different natural gas price scenarios enables Evergy to consider
11 the robustness of its portfolio to future conditions. Use of a risk-weighted NPVRR
12 incorporates the assumption that sometimes prices will be high and sometimes they will be
13 low in the future. In addition, and with that understanding, EKC's forecasted natural gas
14 costs contained in the 2024 IRP compare well with Evergy's historical natural gas costs,
15 and that comparison further confirms the reasonableness of EKC's forecast in its 2024 IRP.
16 Consistent with the opinions stated in the Direct Testimony of Justin Grady at pages 66-
17 67, a true "apples to apples" comparison on the same components of cost between Evergy's
18 historical gas commodity costs and the elements included in the most recent IRP analysis,
19 the natural gas costs included in the 2024 IRP are reasonable. Contrary to Mr. Jones'
20 testimony, when fairly analyzed and compared with actual costs comprised of the same
21 components and charges, the natural gas forecasts used in the IRP analysis are reasonable,
22 and they do not establish or create a bias in favor of CCGT assets.

1 **Q. Does Evergy's model underestimate the potential for short-term fluctuations in**
2 **natural gas costs?**

3 A. No, it does not. Again, as stated in the Cross-Answering Testimony of Staff witness Justin
4 Grady, when compared with Evergy's historical realized natural gas costs, the forecasts in
5 the 2024 IRP are generally confirmed. Purchases during periods of short-term price spikes
6 are represented in Evergy's historical data, and although they occur, they appear to be
7 anomalous and do not cause wide variations in historical cost data. Evergy is mindful that
8 its cost figures should be consistent with and reflect real-world costs, and in this instance
9 the fact that the IRP natural gas costs are consistent with and confirmed by Evergy's
10 historical natural gas costs is supportive of figures utilized to forecast natural gas costs for
11 the purposes of the 2024 IRP.

12 **Q. Would you like to respond to Mr. Jones' assertion that EKC should have considered**
13 **fuel costs for the new plants in the IRP analysis?**

14 A. As stated above in response to KIC witness Gorman's assertion, EKC did consider fuel
15 costs for the new plants in the IRP analysis, even though it did not include these costs in
16 the definitive cost estimates and is appropriately not seeking predetermination of those
17 costs in this docket. It did, however, consider fuel costs in modelling NPVRR of the various
18 considered portfolios and in selecting the preferred portfolio as part of the IRP analysis as
19 part of its production cost model.

20 **Q: Finally, as to Mr. Jones' assertion that EKC should reduce its ownership in the McNew**
21 **plant and instead deploy battery storage, how do you respond?**

22 A: The inclusion of the assets under review in this docket are directly in line with EKC's most
23 recent IRP and its selection of CCGT additions to the generation fleet. EKC's IRP process

1 considers battery storage as one of many possible solutions to growing demand and
2 increased resource adequacy requirements. Although battery storage was not selected as
3 part of the preferred portfolio by the 2024 IRP analysis, EKC continues to consider
4 alternative solutions, including but not limited to battery storage, in its future IRP analyses
5 and models going forward.

6 **RESPONSES TO CURB WITNESS METZ**

7 **Q: Please state and identify the assertions made by CURB witness Metz that you would**
8 **like to address.**

9 A: I would like to respond to Ms. Metz's assertion that problems with EKC's IRP modeling
10 prevented EKC from identifying lowest cost and lowest risk additions to its portfolio,
11 specifically (1) that EKC did not model compliance with Clean Air Act Sec. 111, which
12 means it omitted limitations and risks posed by current and future environmental regulations;
13 (2) that EKC's firm capacity rating and book life assumptions for new resources bias the
14 model toward adding CCGT capacity over renewables; (3) that EKC did not model exposure
15 to fuel cost volatility, which is a substantial risk for CCGTs; (4) that EKC did not adequately
16 analyze and test the market for alternatives to CCGTs; (5) that solar and battery additions are
17 lower cost and could be procured incrementally to allow flexibility and adaptability; and (6)
18 that Evergy should issue an all-source RFP with options for PPA to determine whether
19 responses indicate alternative

20 **Q. How do you respond to Ms. Metz's assertion that EKC did not model compliance with**
21 **Clean Air Act Section 111?**

22 A. Clean Air Act Section 111 rules were published after EKC's completion of its 2024 IRP.
23 Therefore, Evergy could not reasonably have considered these final rules in the IRP

1 process. The EKC 2024 IRP has analysis of compliance options based on the originally
2 proposed rules. Evergy also analyzed future carbon restrictions as a risk to the future
3 performance of the resource plan and used three levels of carbon restrictions in its modeling
4 and calculation of risk-adjusted net present value revenue requirements in the 2024 IRP.
5 Ms. Metz has not identified any specific aspect of the Section 111 final rules that have not
6 been adequately accounted for in the IRP process, EKC's IRP, particularly at the time it
7 was modeled, was and remains sufficient to account for the risks of mandated carbon
8 restrictions, similar to those found in Federal regulations, including those adopted under
9 Clean Air Act Section 111.

10 **Q. What is your response to the assertion that EKC's firm capacity rating and book life**
11 **assumptions for new resources bias the model toward adding CCGT capacity over**
12 **renewables?**

13 A. EKC did not make the assumptions concerning accredited capacity and book lives of
14 various technologies in a vacuum or as Ms. Metz implies to bias the model; instead, these
15 assumptions are based on current reality. For purposes of modeling that resulted in
16 selection of EKC's IRP preferred portfolios, book life assumptions or depreciation rates
17 are based on current authorized rates established by the Commission, and the capacity
18 accreditation for various technologies is based on SPP's current criteria. Using assumptions
19 that do not apply to EKC would produce inaccurate model results and potentially lead to
20 decisions that are not in the best interest of EKC's customers.

21 **Q. Do you agree with Ms. Metz that EKC did not model exposure to fuel cost volatility?**

22 A. No, I disagree with this assertion. As discussed above with respect to NEE witness Jones'
23 testimony, EKC conducted detailed analysis of natural gas costs, and incorporated this data

1 in its IRP analysis and forecasting to make the resource selection in the preferred portfolio.
2 This analysis includes elements of and recognition of volatility of natural gas prices and
3 costs. For example, the possible volatility of natural gas prices is a risk accounted for and
4 analyzed in the IRP process and was specifically factored into the analysis of all of the
5 alternative portfolios in selecting the preferred portfolio including the CCGT resources.

6 **Q. How do you respond to Ms. Metz's statement that EKC did not adequately analyze**
7 **and test the market for alternatives to CCGTs?**

8 A. Similar to her testimony regarding the modeling of fuel cost volatility, Ms. Metz is incorrect
9 in her statement. As stated in my opening testimony describing the IRP process, the
10 analysis and process involves numerous different asset portfolios, which included different
11 mixes of generation resources and alternatives to CCGT, including renewable resources.
12 These analyses included evaluating these resource portfolio alternatives for the various
13 factors discussed in my initial Direct Testimony, including costs, and various risk and
14 performance factors. Contrary to Ms. Metz's assertion, EKC's IRP process includes a
15 reasonable and full analysis of possible alternatives to CCGT resources.

16 **Q. How do you respond to Ms. Metz's assertion that solar and battery additions are lower**
17 **cost and could be procured incrementally to allow flexibility and adaptability?**

18 A. As stated above, the IRP analysis incorporated modeling of a variety of different possible
19 portfolios, including solar and battery additions. Contrary to Ms. Metz's assertions, EKC's
20 2024 IRP considered a plan (Plan AAAG) allowing only renewables and storage to meet
21 incremental capacity and energy needs and the plan performed considerably worse from a
22 reliability perspective and had an expected NPVRR cost that was over \$5 billion dollars
23 higher than EKC's preferred portfolio.

1 **Q. Finally, how do you respond to Ms. Metz’s assertion that Evergy should issue an all-**
2 **source RFP with options for PPA to determine whether responses indicate alternative?**

3 A. As addressed in Direct Testimony of EKC witnesses Jason Humphrey, John Carlson, and
4 Kyle Olson, and in responses to data requests in this docket, Evergy utilized competitive
5 processes at every step, including running an All-Source RFP in 2023, which included
6 PPAs, to receive broad competitive input and bids for construction of the resources under
7 review in this docket. That competitive process was described in Evergy’s response to
8 CURB’s Data Request 18.c., which states:

9 Evergy has run a competitive process at every step of this project. The selection
10 of advanced class machines was made on the anticipation of the lowest cost per
11 kilowatt resource with the highest efficiency and the most flexibility for
12 customers. The owner’s engineer was selected through a competitive RFP, the gas
13 turbine provider was selected from a competitive RFP to all major gas turbine
14 suppliers, the generator-step-up transformers were selected through a competitive
15 RFP and the EPC is being selected through a competitive RFP. Every phase of the
16 project has been advanced through a competitive process and is striving for the
17 best balance of cost, reliability, execution, long-term flexibility, and ability to
18 meet market mission. The supply and demand forces affecting the market for firm-
19 dispatchable power have caused prices to increase but, as evidenced by the recent
20 pricing from Basin Electric and similar pricing from other referenced utilities,
21 Evergy’s prices are in line with or slightly better than the broader market today.

22 Due to these market-forces including supply and demand balance for energy and
23 capacity projects, general and construction materials specific inflation, tariffs, and
24 a competitive construction market broadly – not just in utility construction – there
25 are strong risks for prices to continue to increase in the short to medium term. This
26 anticipation is for both renewable and for conventional resources.

27 This competitive acquisition process was also discussed in the Direct Testimony of Staff
28 witness Justin Grady, in which he found EKC sought competitive input from a wide
29 audience of participants.
30

RESPONSE TO CROSS-ANSWERING TESTIMONY OF CEP WITNESS DOROTHY BARNETT

Q. How do you respond to CEP witness Dorothy Barnett's assertion that Evergy should have constructed just one of the two CCGT facilities?

A. Ms. Barnett asserts that "[s]imply math shows that a single 710 CCGT can accommodate the IRP's projected thermal adds of 650 MW for 2029 and 2030" in making this assertion. It is true that essentially one whole CCGT facility (50% of the McNew and 50% of the Viola) are being allocated to EKC. However, as noted in the Supplemental Testimony submitted by EKC in this docket, the second half of the McNew and Viola plants are allocated to other Evergy utilities, namely Evergy Missouri West ("EMW"). The costs associated with those 50% interests in the CCGT facilities will be recovered through rates charged to EMW customers, not EKC customers, and the need for addition of those assets to EMW's generation fleet will be addressed in proceedings before the Missouri Public Service Commission. Additionally, as has been discussed by Company witnesses Kyle Olson and Jason Humphrey, constructing two CCGT facilities now, as opposed to building or acquiring them incrementally, also provides some savings through economies of scale as well. For these reasons, among others, the construction of both CCGT facilities is reasonable.

Q. How do you respond to the assertion by Ms. Barnett that Evergy did not consider the environmental costs of the McNew and Viola CCGT facilities?

A. This assertion is incorrect. EKC thoroughly analyzes the environmental impacts and costs of all generation resources and portfolios in the course of its IRP. EKC evaluates various risks and factors related to environmental impacts as well as current and future environmental policy when it creates its IRP model. The model evaluates the performance

1 of all resources and portfolios against a number of varied factors, among which are certain
2 efficiency and environmental metrics. As Ms. Barnett admits, in response to CEP DR 1-1,
3 EKC expressly stated that the IRP model included modeling of CO₂, SO₂ and NO_x
4 emissions. Ms. Barnett is simply incorrect in her assertion that EKC did not consider
5 environmental costs of the CCGTs in this docket.

6 **Q. Ms. Barnett also states that large load customers generally prefer power sourced from**
7 **renewable, clean energy, and that the CCGTs is not in line with large load customers'**
8 **generation preference. How do you respond to this assertion?**

9 A. As has been stated numerous times in this docket, the generation resources under review
10 are not specifically directed toward serving any specific large load customers, nor generally
11 toward large load customers as a whole. Although increased load is one supporting purpose
12 of the addition of these new generation assets, there are many other supporting purposes
13 and reasons, all of which have been discussed above in my testimony. In addition, as
14 discussed above, the forecasted load growth in EKC's territory is not merely driven by new
15 large load additions; rather, there is substantial expected load growth among native existing
16 customers as well. Therefore, the perceived generation preference of large load customers
17 is not pertinent in this docket.

18 However, as discussed in the Rebuttal Testimony of company witness Darrin Ives, in
19 the LLPS Docket, Evergy has proposed a number of efficiency and clean energy generation
20 tariff riders, including a Demand Response & Local Generation Rider, Clean Energy Choice
21 Rider, Renewable Energy Program Rider, Alternative Energy Credit Rider, and a Green
22 Solutions Connections Rider. Therefore, if these are approved by the Commission in the
23 LLPS Docket, there will be a number of options for large load customers to enhance their

1 renewable, clean energy generation portfolio and to participate in efficiency initiatives
2 through these various programs. Finally, it is important to note that in addition to the CCGT
3 resources, EKC is seeking approval for the Kansas Sky solar facility, which will in fact add
4 an important renewable generation asset to EKC's generation fleet.

5 **CONCLUSION**

6 **Q. Please provide a summary of your testimony.**

7 A. While several intervenors and parties have raised questions related to the IRP and preferred
8 portfolio, those questions largely represent unfounded, unsubstantiated claims, which I have
9 substantively addressed in this Rebuttal Testimony. Importantly, these assertions made by
10 other parties in this docket are also substantively refuted by the substantial analysis and
11 testimony performed by KCC Staff. Through EKC's Petition and testimony in this case, EKC
12 has supported the need for the CCGTs and solar facility requested in this predetermination.
13 KCC Staff supports EKC's request with the exception of a few specific requests for
14 modifications, and no party has raised a substantial or substantiated concern which would
15 overcome the showing made by EKC in this docket. I therefore respectfully request that the
16 Commission affirm the appropriateness and sufficiency of EKC's analysis and support in
17 providing its approval of EKC's predetermination application.

18 **Q. Does this conclude your testimony?**

19 A. Yes.

STATE OF KANSAS)
) ss:
COUNTY OF SHAWNEE)

VERIFICATION

Cody VandeVelde, being duly sworn upon his oath deposes and states that he is the Sr Director Strategy and LT Planning, for Evergy, Inc., that he has read and is familiar with the foregoing Testimony, and attests that the statements contained therein are true and correct to the best of his knowledge, information and belief.



Cody VandeVelde

Subscribed and sworn to before me this 4th day of April 2025.



Notary Public

My Appointment Expires May 30, 2026



CERTIFICATE OF SERVICE

I do hereby certify that a true and correct copy of the foregoing document has been emailed, this 4th day of April 2025, to all parties of record as listed below:

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