

**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 ) Docket No. 22-EKME-254-TAR  
Approval of its Demand-Side Management )  
Portfolio Pursuant to the Energy Efficiency )  
Investment Act (KEEIA), K.S.A. 66-1283. )

**CROSS-ANSWERING TESTIMONY OF  
ALICE NAPOLEON**

**ON BEHALF OF  
THE CITIZENS' UTILITY RATEPAYER BOARD**

June 24, 2022

1 **1. PURPOSE**

2 **Q. What is the purpose of your cross-answering testimony?**

3 A. The purpose of this cross-answering testimony is to address statements by Mr. Paul Raab,  
4 testifying on behalf of Kansas Gas Service, regarding the likely impacts of Evergy's  
5 proposed programs on fuel switching and on overall fossil fuel consumption. I also review  
6 and discuss the Kansas Corporation Commission (KCC) Staff's recommendations  
7 regarding the Throughput Disincentive (TD), as addressed in the testimony of Mr. Douglas  
8 Hall, and regarding the budget for the Hard-to-Reach Homes program, as discussed in the  
9 testimony of Dr. Lana Ellis.

10 **2. IMPACTS ON FUEL SWITCHING**

11 **Q. Please describe Mr. Raab's position.**

12 A. Mr. Raab states that the Kansas Energy Efficiency Investment Act (KEEIA) does not  
13 "consider a fully 'holistic' approach to energy efficiency that considers all available energy  
14 sources."<sup>1</sup> He asserts that Evergy's proposed programs, specifically the Business Comfort  
15 and New Construction components of the Whole Business Efficiency program, and the  
16 Enhanced New Construction component of the Commercial Hard-to-Reach Business  
17 Program, will distort the fuel selection process and thereby promote fuel switching.<sup>2</sup> He  
18 argues that this could lead to "increased usage of electricity, natural gas, and total energy  
19 consumed," which is "clearly in conflict with the State's goal and policy as stated in the

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<sup>1</sup> Direct Testimony of Paul H. Raab on behalf of Kansas Gas Service, Docket No. 22-EKME-254-TAR, p. 5. ("Raab Direct Testimony").

<sup>2</sup> Id., at p. 9.

1 KEEIA and the Commission’s energy efficiency objectives.”<sup>3</sup> Furthermore, he expresses  
2 concern that the business programs do not incorporate a “like for like” component similar  
3 to the residential programs.<sup>4</sup>

4 Mr. Raab is concerned that the current methodology to quantify energy savings may not  
5 properly quantify the actual changes in energy use.<sup>5</sup> Furthermore, Mr. Raab is concerned  
6 that Evergy may restrict access to the program tracking database that documents project  
7 and program data.<sup>6</sup>

8 **Q. What does Mr. Raab recommend?**

9 A. First, he recommends that the Commission incorporate a “like for like” component for  
10 business Demand-Side Management (DSM) programs.<sup>7</sup>

11 Second, he recommends that “the Commission deny Evergy’s request to approve the New  
12 Construction component of the Whole Business Efficiency Program and the Enhanced  
13 New Construction component of the HTR Business Program, or in the alternative exclude  
14 heating, ventilation, and air conditioning equipment from these programs.”<sup>8</sup>

15 Third, he recommends that “the Commission require greater transparency with respect to  
16 how Evergy’s incentives have been spent and their impact. This requires that all parties  
17 (including the Gas Utilities) have full access to Evergy’s energy efficiency database that

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<sup>3</sup> Raab Direct Testimony at p. 24-25.

<sup>4</sup> Id., at p. 8-9.

<sup>5</sup> Id., at p. 16.

<sup>6</sup> Id., at p. 23.

<sup>7</sup> Id., at p. 25.

<sup>8</sup> Id., at p. 25.

1 documents, at a minimum, the recipient of all ratepayer funded incentives, the amount of  
2 the incentive paid, and the purpose for which the incentive was paid.”<sup>9</sup>

3 **Q. What support does Mr. Raab present for these recommendations?**

4 A. Mr. Raab states that “Distortions of the fuel selection decision caused by the Evergy  
5 incentives can result in increased usage of electricity, natural gas, and total energy  
6 consumed.”<sup>10</sup> He bases this conclusion on two supposedly “indisputable facts:”<sup>11</sup>  
7 specifically “increased consumption of electricity necessarily implies increased usage of  
8 the fossil fuel needed to produce that electricity” and “more fossil fuel energy is required  
9 to provide a Btu of electrical energy at the point of usage (a home, for example) than to  
10 provide a Btu of the fossil fuel energy at the same point of usage.”

11 **Q. Will the incentives proposed in the programs selected by Mr. Raab lead to increased  
12 usage of electricity, natural gas, and total energy consumption?**

13 A. I find that Mr. Raab’s statements are not only *disputable*; they are also *unlikely*.

14 As Mr. Raab describes, fuel is used more efficiently on site than when burned at the  
15 generator. Mr. Raab calls to attention the Energy Star Portfolio Manager figure which  
16 presents a source-site ratio for electricity (Grid Purchase) of 2.80. He also points out more  
17 geographically specific data from the Source Energy and Emissions Analysis Tool  
18 (“SEEAT”), which suggests a ratio of 3.81.<sup>12</sup>

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<sup>9</sup> Raab Direct Testimony at p. 26.

<sup>10</sup> Id., at pg. 4.

<sup>11</sup> Id., at p. 18-19.

<sup>12</sup> Id., at p. 19-20.

1 It is critical to note that the source-site ratio that Mr. Raab cites does not consider the  
2 efficiency of end-use equipment. For example, heat pumps used for space heating are  
3 generally very efficient. In the *Air Source Heat Pump Buying Guide*, the Northeast Energy  
4 Efficiency Partnership (NEEP) explains that heat pumps can heat homes at efficiencies of  
5 “400 percent in cool weather,” and that on average, in cold climates, heat pumps maintain  
6 an average efficiency in the 200–250 percent range.”<sup>13</sup> Similarly, a study from the U.S.  
7 Department of Energy noted that, at temperatures above 20 degrees, cold-weather heat  
8 pumps can consistently operate at efficiencies of 300 percent or better (assuming a  
9 Coefficient of Performance, or COP, of 3.0).<sup>14,15</sup> Conversely, fossil fuel space heating can  
10 never reach 100 percent efficiency, as some heat will always escape.

11 In Topeka, the average daily low temperature in January is 20 °F.<sup>16</sup> Assuming Mr. Raab’s  
12 cited source-site ratio for electricity of 2.8 and a relatively normal COP of 3.0 for a cold  
13 weather heat pump, the overall efficiency of heating with the heat pump would be 107  
14 percent.<sup>17</sup> On the gas side, using Mr. Raab’s cited source-site ratio for natural gas of 1.05  
15 and an efficiency of 97 percent consistent with a high efficiency furnace, the overall

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<sup>13</sup> Northeast Energy Efficiency Partnership. *Air Source Heat Pump Buying Guide*. Available at:  
[https://neep.org/sites/default/files/resources/ASHP\\_buyingguide\\_5.pdf](https://neep.org/sites/default/files/resources/ASHP_buyingguide_5.pdf).

<sup>14</sup> Per Energy Star, the “COP is a measure of efficiency in the heating mode that represents the ratio of total heating capacity (Btu) to electrical input (also in Btu).” More information is available at:  
[https://www.energystar.gov/ia/partners/product\\_specs/eligibility/lchvac\\_elig.pdf](https://www.energystar.gov/ia/partners/product_specs/eligibility/lchvac_elig.pdf).

<sup>15</sup> United States Department of Energy. *High Efficiency Cold Climate Heat Pump 2016 Building Technologies Office Peer Review*. Available at: [https://www.energy.gov/sites/prod/files/2016/04/f30/32212\\_Shen\\_040616-1135.pdf](https://www.energy.gov/sites/prod/files/2016/04/f30/32212_Shen_040616-1135.pdf).

<sup>16</sup> US Climate Data. “Climate Topeka – Kansas.” Available at:  
<https://www.usclimatedata.com/climate/topeka/kansas/united-states/usks0571>.

<sup>17</sup> The formula to calculate overall efficiency is:  
$$\frac{1}{\text{Source-Site ratio}} \times \text{Equipment Efficiency} = \text{Overall Efficiency}.$$

For example, overall efficiency for a heat pump is:

$$\frac{1}{2.8} \times 3.0 \text{ (COP)} = 1.07 \text{ or } 107 \text{ percent.}$$

1 efficiency of heating with the gas furnace would be around 92 percent. In this example,  
2 less energy would be used to heat with the heat pump on an average January day in Topeka  
3 than would be needed to heat with a natural gas furnace.

4 The SEEAT model cited by Mr. Raab suggests a higher source-site ratio of 3.81. This  
5 figure assumes that 73.9 percent of electric generation from non-baseload plants comes  
6 from coal fired generation. Under these circumstances, the overall source-to-use energy  
7 efficiency of the heat pump would only be 79 percent, compared to a final total energy  
8 efficiency of 89 percent for the gas furnace. However, this is an unlikely scenario. Indeed,  
9 as Mr. Raab points out, “the fuel used to generate electricity “on the margin” is natural  
10 gas.”<sup>18</sup> Thus, if we were to change the inputs of the SEEAT model, such that natural gas  
11 makes up anything greater than about 65 percent of electric generation, then we would find  
12 that the heat pump performed equally, if not more efficiently, than a highly efficient gas  
13 furnace. As more renewable and clean energy resources move to the margin, the source-  
14 site ratio will continue to improve. Furthermore, it is important to note that most gas  
15 furnaces installed will not achieve the assumed 97 percent efficiency, and that heat pumps  
16 can achieve efficiencies above 300 percent.

17 Heat pumps also tend to be more efficient than other space cooling equipment during the  
18 summer. NEEP reports that cold climate heat pumps are twice as efficient as window air  
19 conditioning (AC) units and about 25 percent more efficient than a new central AC  
20 system.<sup>19</sup>

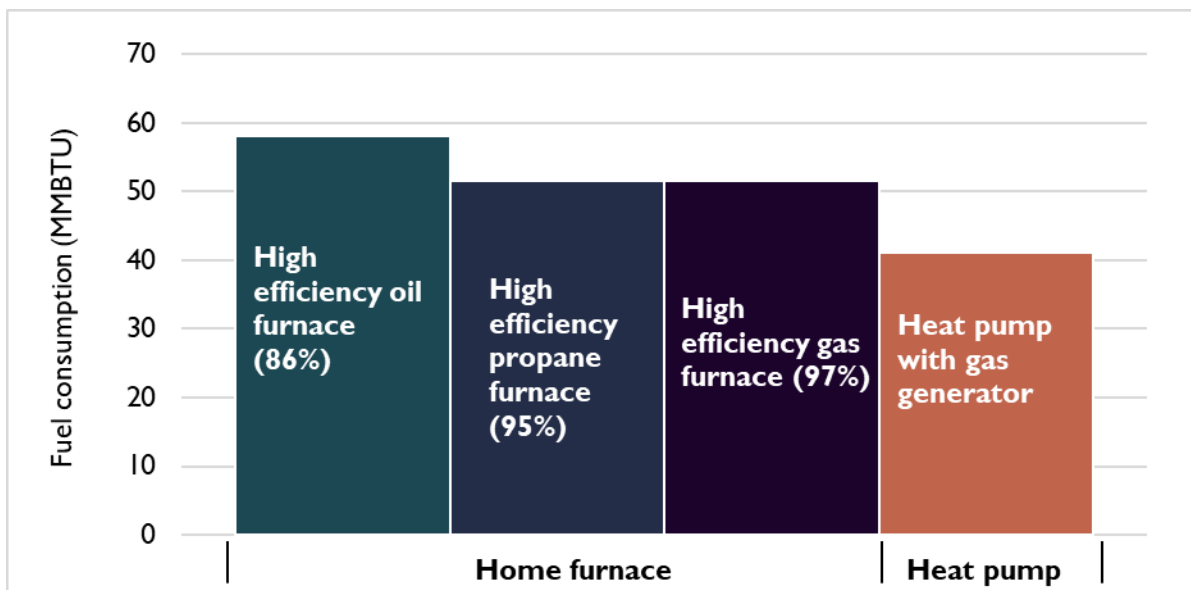
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<sup>18</sup> Direct Testimony of Paul H. Raab on behalf of Kansas Gas Service, Docket No. 22-EKME-254-TAR, p. 21.

<sup>19</sup> Id.

1 Figure 1 presents projected MMBtu input for a customer with an annual natural gas load  
2 of 50 MMBtu and for a heat pump with a COP of 3.0. According to a Department of Energy  
3 Analysis, cold climate air source heat pumps are likely to maintain a coefficient of  
4 performance of 3.0 or higher when the temperature is above 20 degrees.<sup>20</sup> With an average  
5 daily low temperature in January of 20 degrees in Topeka, a COP of 3.0 is a reasonable  
6 assumption.<sup>21</sup> I assume that all load is served by natural gas generators.<sup>22</sup>

7 **Figure 1. MMBtu input by Space Heating Type**



8  
9 As shown in Figure 1, using conservative assumptions, a heat pump for space heating will  
10 lead to roughly 20 percent lower energy consumption than a high efficiency natural gas  
11 furnace. As more clean and renewable energy is added to the grid, this gap will continue  
12 to increase. If wind, or any other renewable or clean energy is on the margin, then the

<sup>20</sup> U.S. Department of Energy. *High Efficiency Cold Climate Heat Pump 2016 Building Technologies Office Peer Review*. Available at: [https://www.energy.gov/sites/prod/files/2016/04/f30/32212\\_Shen\\_040616-1135.pdf](https://www.energy.gov/sites/prod/files/2016/04/f30/32212_Shen_040616-1135.pdf).

<sup>21</sup> U.S. Climate Data. "Climate Topeka – Kansas." Available at: <https://www.usclimatedata.com/climate/topeka/kansas/united-states/usks0571>

<sup>22</sup> U.S. Energy Information Administration. 2018. <https://www.eia.gov/tools/faqs/faq.php?id=73&t=11>.

1 increased usage of electricity would not imply the increased usage of fossil fuels. As  
2 renewables continue to penetrate the grid, the margin will more frequently be made up of  
3 electricity from non-fossil sources.

4 In summary, I find that cold weather heat pumps are very likely to use less energy than a  
5 highly efficient gas furnace. Suggesting otherwise is misleading to the Commission and  
6 should not be considered during the development of an order related to KEEIA, particularly  
7 as coal continues to be phased out of the electric system.

8 **Q. Are there other aspects of Mr. Raab's analysis that concern you?**

9 A. Yes. As stated in my direct testimony, new construction is an important part of the  
10 buildings sector to address with efficiency measures. Given the long lifetimes of buildings  
11 and of certain equipment, such as HVAC, building efficiency should be addressed when it  
12 is built. Promoting efficiency in new construction will be especially important if a state or  
13 federal policy that addresses Kansas buildings' emissions is put into place at any time over  
14 the next several decades.

15 I would also highlight that incentivizing electric equipment in new construction does not  
16 displace fossil customers. New construction is meant to target customers bringing new  
17 electric load on to the system, rather than phasing out existing equipment decisions and  
18 energy sources. Therefore, the gas company cannot claim these customers' load.

### 19 **3. THROUGHPUT DISINCENTIVE**

20 **Q. Please describe Staff's position on Evergy's proposal to address lost revenue.**

21 A. In his testimony, Mr. Hall raises concerns that Evergy's TD proposal could potentially  
22 result in over-recovery relative to the benefits of the DSM programs, and that Evergy's



1 proposed net marginal revenue rates are based on the assumption that all of Evergy's costs  
2 are fixed costs even though some of the costs are variable and will decrease with the  
3 reduction in sales as a result of DSM.<sup>23</sup>

4 **Q. What does Staff propose in this regard?**

5 A. Mr. Hall recommends two changes to Evergy's proposed TD mechanism in order to  
6 minimize the cost of DSM on non-participating ratepayers. First, he recommends that lost  
7 revenue recovery be capped at the level of Evergy's last-approved revenue requirement.  
8 Second, he recommends removing variable costs, as estimated by Staff, from net marginal  
9 revenue rates.<sup>24</sup>

10 **Q. What are your thoughts on Mr. Hall's proposal?**

11 A. I greatly appreciate Mr. Hall's discussion and analysis of Evergy's proposed TD. His  
12 proposed modifications represent an improvement over the Company's proposal. If the  
13 Commission decides to retain some form of a TD, I agree with Mr. Hall's two  
14 recommendations.

15 Still, I remain concerned about several intrinsic characteristics of lost revenue adjustment  
16 mechanisms (LRAMs), even with the modifications proposed by Mr. Hall.

17 First, an LRAM is likely to require periodic, large amounts of time and other resources to  
18 verify the energy savings resulting from DSM programs. For example, an LRAM can give  
19 rise to disputes about the utility's precise level of influence on savings, such as free  
20 ridership, codes and standards, and other factors that are difficult, costly, and impractical

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<sup>23</sup> Direct Testimony of Douglas Hall on behalf of the Utilities Division of the Kansas Corporation Commission,  
Docket No. 22-EKME-254-TAR, p. 2.

<sup>24</sup> Id., at p. 2.

1 to estimate with the high level of accuracy needed for reimbursing Evergy. Aside from  
2 determination of the LRAM, such a high level of accuracy is not needed for standard cost-  
3 effectiveness or evaluation, measurement, and verification purposes. This precision is not  
4 needed at all for implementation of a decoupling mechanism.

5 Second, an LRAM would be more difficult to adapt to future new demand-side  
6 technologies that impact the utility's sales, such as distributed generation or electric  
7 vehicles, than a decoupling mechanism. A decoupling mechanism can be agnostic to these  
8 other influences; an LRAM would become more complicated, as interactions between the  
9 DSM and the new technologies would need to be sorted out so that reductions in sales can  
10 be properly attributed to DSM savings.

11 Third, as customers adopt new end-use products that are likely to *increase* electricity  
12 consumption, such as heat pumps or electric vehicles, decoupling will require the Company  
13 to refund to customers the increased revenues associated with those increased sales. In this  
14 way, decoupling is not only more comprehensive and simpler than a TD, it is also more  
15 balanced.

16 **Q. What is your recommendation?**

17 A. My recommendation is that a decoupling mechanism be developed in a separate  
18 proceeding. To allow time for the development of the decoupling mechanism while DSM  
19 is rolled out, an LRAM as proposed by Mr. Hall could be instituted for a limited period of  
20 time (e.g., one year).

1 **4. RECOVERY OF PROGRAM EXPENSES FOR HARD-TO-REACH HOMES**

2 **Q. Did Staff submit testimony on the Hard-to-Reach Homes program?**

3 A. Yes. Lana J. Ellis, PhD submitted testimony regarding the overall size and cost-  
4 effectiveness of the Hard-to-Reach Homes Program.

5 Dr. Ellis states that low-income programs are not required to pass cost-effectiveness tests  
6 if they are in the public interest and supported by a reasonable budget, as compared with  
7 the overall DSM program budget.<sup>25</sup> She finds that the Hard-to-Reach Homes program is  
8 not cost-effective based on Staff's calculation of the RIM test.<sup>26</sup> Further, she finds that  
9 Evergy's proposed budget for the Hard-to-Reach Homes program exceeds 5 percent of  
10 total budget, the level that the Commission has historically defined as reasonable.<sup>27</sup> She  
11 indicates that approval of the program should depend on whether it is found to be in the  
12 public interest and supported by a reasonable budget. Dr. Ellis notes that Evergy was  
13 allowed to exceed the 5 percent cap if it could show evidence of effectiveness in the  
14 previous energy efficiency docket.<sup>28</sup>

15 Dr. Ellis also notes that Evergy has not provided adequate justification for Evergy's  
16 proposed increase in the size of the proposed weatherization component relative to  
17 historical spending for the Weatherization Assistance Program.<sup>29</sup>

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<sup>25</sup> Direct Testimony of Lana J. Ellis, PhD on behalf of the Utilities Division of the Kansas Corporation Commission, Docket No. 22-EKME-254-TAR, p. 6.

<sup>26</sup> Id., at p. 7-9.

<sup>27</sup> Id., at p. 6 and 12.

<sup>28</sup> Id., at p. 6.

<sup>29</sup> Id., at p. 14-15.

1 **Q. What does Staff recommend?**

2 A. Dr. Ellis recommends that the Commission approve the Hard-to-Reach Homes programs  
3 and recovery of program expenses up to 5 percent of total program budget. She also  
4 recommends that Evergy be required to demonstrate effectiveness for recovery of any  
5 expenditures above 5 percent.<sup>30</sup>

6 **Q. What do you think about Dr. Ellis's recommendations?**

7 A. I appreciate Dr. Ellis's analysis, which points to a potential issue with whether Evergy will  
8 be able to ramp up the program as rapidly as it projected, given the historical weatherization  
9 spending trends.

10 I do have some concern with the 5 percent cap, as it is defined relative to a budget that may  
11 shift during this proceeding consistent with the parties' various recommendations to reduce  
12 or eliminate programs and/or components of programs. Further, a rigid cap could stifle the  
13 development of the program.

14 **Q. What do you recommend?**

15 A. I recommend that Evergy provide justification for whether it will be able to ramp up the  
16 Hard-to-Reach Homes program, in light of the historical spending on weatherization. If  
17 Evergy is not able to demonstrate that its proposed ramp-up of the Hard-to-Reach Homes  
18 program is reasonably attainable, the Company should revise the budget consistent with an  
19 achievable ramp rate.

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<sup>30</sup> Id., at p. 2.

1           If Evergy is able to show that its proposed ramp-up is attainable, e.g. based on the speed at  
2           which similar programs have been developed in other service areas, I recommend that the  
3           Hard-to-Reach Homes program be approved as proposed. Rather than capping the budget  
4           for this program, however, I suggest focusing on providing Evergy with guidance on how  
5           to demonstrate program effectiveness using the types of data that Mr. Colton recommends  
6           collecting and reporting in his testimony on behalf of the Sierra Club/Appleseed.<sup>31</sup>  
7           Specifically, in addition to measuring annual and lifetime program savings per home, the  
8           following data should be collected and tracked for program participants relative to a control  
9           group:

- 10           1. The dollars of bills for current service by month
- 11           2. The dollars of actual receipts by month
- 12           3. The number of accounts receiving a bill by month
- 13           4. The number of accounts making a payment by month
- 14           5. The number of disconnect notices issued by month
- 15           6. The number of accounts in arrears
- 16           7. The dollars of arrears by month
- 17           8. The average arrears of accounts with arrears by month
- 18           9. The number of accounts with a \$0 balance by month

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<sup>31</sup> Direct Testimony of Roger Colton on behalf of Sierra Club and Kansas Appleseed Center for Law and Justice, Inc., Docket No. 22-EKME-254-TAR, p. 103-106.

1           10. The number of final bills by month

2           11. Pre-and post-treatment energy burdens<sup>32</sup>

3           These data can be used to establish and measure the effectiveness of the Hard-to-Reach  
4           Homes program at addressing critical problems for low-income customers.

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

6   **A.    Yes.**

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<sup>32</sup> Id.



## CERTIFICATE OF SERVICE

22-EKME-254-TAR

I, the undersigned, hereby certify that a true and correct copy of the above and foregoing document was served by electronic service on this 24<sup>th</sup> day of June, 2022, to the following:

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