BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS

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) 25-EKCE-207-PRE
Apply to the Recovery in Rates of the Cost to be)
Incurred for Certain Electric Generation Facilities)
under K.S.A. 66-1239)

CROSS-ANSWERING TESTIMONY

PREPARED BY

JUSTIN T GRADY

UTILITIES DIVISION

KANSAS CORPORATION COMMISSION

March 21, 2025

	I.	Introduction, Qualifications, Purpose and Overview of Testimony
	II.	Response to the testimony of Mr. Jones
	A.	NEE Criticisms of Evergy's Natural Gas Price Forecast
	B.	Henry Hub Criticism
	C.	Short Term Fluctuations Criticism
	D.	Evaluation of Evergy Delivered Natural Gas Prices
	E.	Treatment of Transportation Costs in Gas Comparisons
	F.	Natural Gas Price Forwards Vs. Evergy Forecasts
	III.	Response to the testimony of Mr. Gorman
	IV.	Conclusions
1	I.	Introduction, Qualifications, Purpose and Overview of Testimony
2	Q.	Please state your name and business address.
3	A.	My name is Justin T. Grady, and my business address is 1500 Southwest Arrowhead
4		Road, Topeka, Kansas, 66604.
5	Q.	Are you the same Justin T. Grady that filed Direct Testimony on March 14,
6		2025, in this Docket?
7	A.	Yes.
8	Q.	What is the purpose of your Cross-Answering Testimony?
9	A.	In the testimony that follows I will respond to the Direct Testimony of Nick Jones,
10		who filed Direct Testimony in this Docket on behalf of New Energy Economics
11		(NEE). I will address Mr. Jones' assertions that the natural gas price forecasts used
12		in Evergy's capacity expansion modeling in this Docket are biased to the downside,
13		thereby underestimating the fuel cost and risk associated with the decision to build
14		and own a 50% share of both the Viola and McNew Combined Cycle Gas Turbines
15		(CCGTs). I will then respond to the Direct Testimony of Michael P. Gorman, who

filed Direct Testimony on behalf of Kansas Industrial Consumers Group, Inc. The fact that I am not responding to other parties' Direct Testimony at this time should not be construed as agreement with other parties' positions, but rather a reflection of the limited time available to prepare cross-answering testimony for this Docket.

II. Response to the testimony of Mr. Jones

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7 Q. What specific testimony of Mr. Jones are you responding to?

I'm responding to Mr. Jones' assertions that Evergy has not adequately represented the probable cost of natural gas, and that the Company's natural gas forecast and fuel supply plan could expose ratepayers to unreasonable risk. These assertions are generally contained within the first 24 pages of Mr. Jones' Direct Testimony. The fact that I have not responded to the rest of Mr. Jones' Direct Testimony, should not be construed as my agreement with the entirety of that testimony, rather it reflects the limited time available to prepare cross-answering testimony for this Docket.

A. NEE Criticisms of Evergy's Natural Gas Price Forecast

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Q. Did Mr. Jones' Direct Testimony restate the criticisms of NEE from the 2024 Integrated Resource Plan (IRP) pertaining to Evergy's natural gas forecast?

Yes. Beginning on page five of his Direct Testimony, Mr. Jones restates the criticism that Evergy's mid-case natural gas forecast is out of line with Evergy's recent realized costs. Further, he states that the company's high-case scenario is better aligned with historical costs yet underweighted in the analysis. To support these conclusions, Mr. Jones relies on two primary arguments, restated here:

1 2 3 4 5 6 7 8		 The Company's use of the Henry Hub national price benchmark, which discounts the regional market dynamics that can often inflate the price of delivered fuel. Evergy forecasts prices on a monthly cadence, which discounts the potential for short-term fluctuations to raise costs during periods of peak demand.¹ Henry Hub Criticism
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11	Q.	Is Mr. Jones correct in his assertion that Evergy based its natural gas price
12		forecast off the Henry Hub national price benchmark?
13	A.	No. I addressed this criticism directly on pages 66-68 of my Direct Testimony in this
14		Docket. The response to Staff Data Request No. 40 in this Docket clearly
15		demonstrates that Evergy has adjusted the Henry Hub benchmark price by the
16		Panhandle Eastern basis differential for purposes of its natural gas price forecasts in
17		the 2024 IRP, and which was the basis of the capacity expansion modeling performed
18		in this Docket. Accordingly, the Commission should disregard any assertion to the
19		contrary in Mr. Jones' Direct Testimony.
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¹ See Nick Jones Direct Testimony at page 6.

C. Short Term Fluctuations Criticism

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Q. Is Mr. Jones correct in his assertion that Evergy's monthly natural gas price
 forecasts discount the potential for short-term fluctuations to raise costs during

5 periods of peak demand?

- A. No. Staff agrees that Evergy's natural gas price forecast reflects a monthly cadence and that natural gas prices can exhibit significant short-term fluctuations outside of the range of monthly forecasts. But this does not mean that Evergy's monthly forecast "discounts" the potential for these fluctuations, or that Evergy's monthly forecast understates the historical realized cost of natural gas at Evergy facilities. To the contrary, as shown in detail below, Evergy's historical realized gas purchases demonstrate the reasonableness of its mid-case natural gas forecast.
 - D. <u>Evaluation of Evergy Delivered Natural Gas Prices</u>

- Q. What evidence does Mr. Jones provide in support of his assertions that Evergy's natural gas price forecast is biased to the downside?
 - A. Most of Mr. Jones' testimony in support of this assertion relies on comparisons to an outdated natural gas forecast from the 2021 IRP that is not used to support the reasonableness of the CCGTs in this Docket. However, Mr. Jones does refer to the 2024 IRP forecast when he states on page 8 of his Direct Testimony: "[y]et, as NEE noted in comments on the 2024 IRP, the updated [2024] mid-case forecast still sits below average prices and costs from recent years." He continues by stating: "[a]s

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1	NEE explained in its 2024 Triennial IRP comments, the Company's current high-
2	case forecast appears more reasonable when compared against recent history."

- Q. Does Staff agree that an evaluation of average prices and costs of natural gas from recent years leads to the conclusion that Evergy's mid-case natural gas forecast is biased to the downside, making Evergy's high-case natural gas forecast more reasonable?
- 7 A. No. As I demonstrate in the testimony that follows, using NEE's workpapers and the 8 response to Staff Data Request No. 40 in this Docket, if you compare Evergy's 9 historical realized natural gas costs to the natural gas forecasts contained in the 2024 10 IRP, the result is a confirmation of the reasonableness of Evergy's natural gas forecasts. You also come away with the conclusion that it would be unreasonable to 11 12 rely solely on Evergy high-case natural gas forecasts as NEE recommends in this 13 Docket. Lastly, I am reiterating the evidence from my Direct Testimony showing 14 that current forward market curves for locally priced natural gas are supportive of 15 Staff's determination of the reasonableness of Evergy's mid-case natural gas forecast. 16 Q.
 - On Page 15 of Mr. Jones' Direct Testimony, he testifies that the average delivered cost of natural gas to the Hawthorn combined cycle facility averaged \$3.84 per MMbtu during the period of June 2022 through July 2024. Does this indicate to Staff that Evergy's mid-case natural gas forecast is unreasonable?
 - A. No. In fact, this testimony demonstrates that even though delivered natural gas prices "spiked" to \$11.13/MMbtu in December of 2022, and \$10/MMbtu in January of 2024, when these observations are averaged in with the rest of the lower cost purchases over this time frame, the result is a reasonable \$3.84/MMbtu cost of natural

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gas. The average natural gas cost level remains reasonable because these price spikes didn't occur during months in which a significant volume of gas was being purchased as Mr. Jones alludes, they occurred during relatively low gas purchase volume months.²

On pages 18-20, Mr. Jones also attempts to support his claims by evaluating the delivered cost of natural gas at Evergy's other natural gas plants, although his testimony focuses on "spot" purchases and average winter delivered costs, instead of an all-in weighted average purchased gas cost. Using Mr. Jones' workpapers, Staff calculated the average delivered cost of natural gas to Evergy's fleet to be \$3.59/MMBtu from June 1, 2022, through August 1, 2024. Both of these average gas price amounts support the reasonableness of Evergy's mid-case natural gas cost forecast as discussed further below.

- Q. How do these recent realized gas prices compare to Evergy's mid-case natural gas price forecast from the 2024 IRP Docket, as used in the capacity expansion modeling provided in this Docket?
 - These recent realized gas prices demonstrate the reasonableness of Evergy's mid-case natural gas price forecasts, and they demonstrate how unreasonable it would be to only use the high-case natural gas price forecast to evaluate the fuel costs or revenue requirement impacts of the CCGTs. In response to Staff Data Request No. 40, Evergy provided its mid-case natural gas price forecast for every month from January 2024 through December 2047. For example, for the months of January 2024

² According to Mr. Jones' workpapers, the volume of natural gas purchased in December 2022 at the Hawthorn site was 230,370 MMbtu, and 449,565 MMbtu in January 2024. This compares to the average volume of 546,744 MMbtu from June 1, 2022, to August 1, 2024.

- through August 2024, Evergy's mid-case natural gas price forecast averaged \$3.16/MMbtu. Evergy's high-case natural gas price forecast for these months averaged \$4.51/MMbtu. This compares to the actual delivered natural gas price of \$2.48/MMbtu for these same months, as calculated from Mr. Jones' workpapers. Clearly the \$2.48/MMbtu is below the mid-case forecast of \$3.16/MMbtu and is much closer to the mid-case forecast than the high-case forecast.
- Q. What if we look back further, say from January 1, 2019, through August 1,
 2024? Do those delivered gas prices indicate the unreasonableness of Evergy's
 mid-case natural gas price forecast?
 - No. Looking back further, Evergy's actual delivered gas prices, even inclusive of Winter Storm Uri, are supportive of the reasonableness of using the mid-case natural gas price forecast and demonstrate how unreasonable it would be to use the high-case natural gas price forecast. The average delivered natural gas price to Evergy's fleet was \$3.85/MMbtu from January 2019 through August 2024. This includes the impact of Winter Storm Uri in February 2021. If we exclude Winter Storm Uri, the price drops to \$3.53/MMbtu. This compares to Evergy's mid-case natural gas price forecast of \$3.70/MMbtu for the first five years of the forecast (2024-2029), and \$4.25/MMbtu for the next five years (2030-2035). This evidence demonstrates that Evergy's actual delivered gas costs over the last five and a half years, were very close to the mid-case forecast values for the next five years, even when Winter Storm Uri gas purchases are included in the actual costs.

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1	Q.	Do these actual delivered natural gas prices indicate the unreasonableness of
2		relying solely on the high-case natural gas price forecast?

A. Yes. Evergy's high-case natural gas price forecast is significantly higher than these actual delivered natural gas prices. The high-case natural gas price forecast for 2024 to 2029 is \$6.20/MMbtu and \$7.10 per MMbtu from 2030-2035. Evergy's actual delivered natural gas prices only reached higher than \$6.20/MMbtu in 11 out of 68 months (16%) during this time. While the price spikes in these months certainly increased the weighted average delivered price, the result was still an average delivered price of \$3.85/MMbtu from the period of January 2019 through August 2024, which is significantly less than the high-case averages provided here.

E. <u>Treatment of Transportation Costs in Gas Comparisons</u>

Q. Are gas transportation costs included equally in both the delivered natural gas prices and the forecasted natural gas prices discussed above?

separate from the commodity cost of the plants.

No. As described in response to Staff Data Request No. 41 and 42, the delivered natural gas prices relied on by Mr. Jones include natural gas transportation charges, however the Evergy natural gas price forecasts do not include transportation charges. Evergy modeled natural gas transportation as a fixed monthly cost of the plants,

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1	Q.	On page 16 of Mr. Jones' Direct Testimony, he acknowledges this discrepancy,
2		but he describes it as "likely only accounting for a minority of the discrepancy."
3		Do you agree with this testimony?
4	A.	No. Mr. Jones explains that firm transport costs during this period were no more than
5		\$.22 MMbtu, however Mr. Jones misses the fact that these costs are not assessed
6		volumetrically based on actual flowing gas, they are assessed as a fixed cost per unit
7		of reserved capacity. This means that the discrepancy grows during small volume
8		months, like many of the winter months used in Mr. Jones' examples and shrinks
9		during higher volume months like summer months. Using simple math, in months in
10		which the fixed transportation costs stayed the same, but delivered volume was 50%
11		less than average, the discrepancy would grow to \$.44/MMbtu. At lower volumes of
12		delivery, the discrepancy would grow even more. As set forth in my Direct
13		Testimony, because the delivered gas prices as reported through EIA form 923
14		contain transportation costs, and the gas price forecasts used in this Docket do not,
15		the Commission should use caution when performing these direct comparisons. ³
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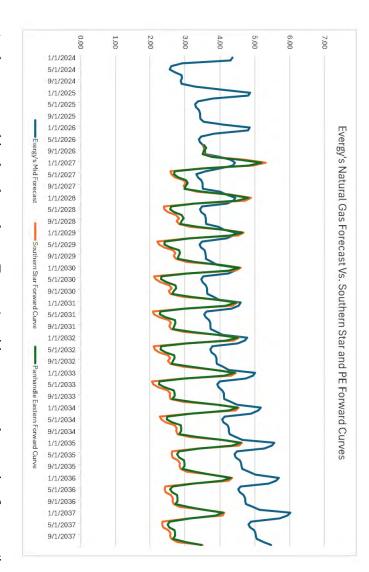
³ See my Direct Testimony at page 67.

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Testimony?

1 2		F. Natural Gas Price Forwards Vs. Evergy Forecasts
3	Q.	In your Direct Testimony at page 69, you provided evidence from the natural
4		gas markets that points to the long-term stability of natural gas prices through
5		2037. Please elaborate here as to why you believe that evidence contradicts Mr.
6		Jones' recommendation to use Evergy's high-case natural gas price forecast
7		instead of Evergy's mid-case natural gas price forecast.
8	A.	In my Direct Testimony, I testified that the current forward markets for natural gas
9		are not indicative of an unstable and growing natural gas price. This is contrary to
10		the testimony of Mr. Jones at pages 9-10, in which he states that increased demand
11		for natural gas is likely to inflate natural gas fuel prices overtime. In the testimony
12		that follows, I will compare the monthly data from the S&P Global Market
13		Intelligence forward market price curves introduced in my Direct Testimony, to
14		Evergy's mid-case and high-case natural gas price forecasts.
15	Q.	Have you compared Evergy's mid-case natural gas forecast to the forward
16		market curves for Southern Star and Panhandle Eastern from your Direct

forward curves for Southern Star and Panhandle Eastern as of March 12, 2025.



on Evergy's mid-case natural gas forecast in this Docket. this supports the reasonableness, and likely conservative nature, of Staff's reliance frame average \$3.11 for Southern Star and \$3.19 for Panhandle Eastern. I contend forecast averages \$4.26/MMbtu, whereas the Southern Star forwards for this time months represented in the forward curves), Evergy's mid-case natural gas price gas (in green and yellow). From July 1, 2026, through year end 2037 (the same blue) lines up quite well with current natural gas price forward curves for local natural As demonstrated in the chart above, Evergy's mid-case natural gas price forecast (in

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Ö forward market price curves you provided in Direct Testimony? this Docket. How does Evergy's high-case natural gas forecast compare to the cost forecast to evaluate the fuel costs and overall efficiency of the CCGTs in Mr. Jones recommends that the Commission use Evergy's high-case natural gas

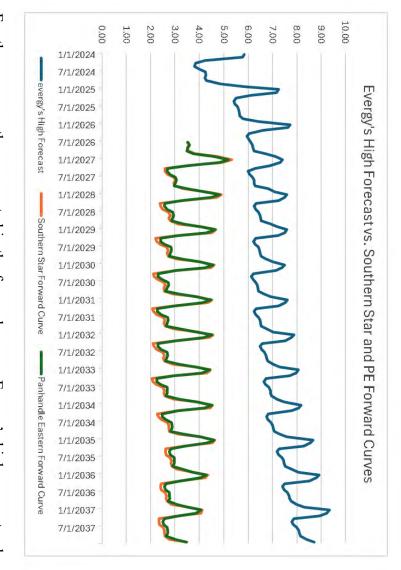
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Þ compared to current forward market curves for locally priced gas The chart below shows how extreme Evergy's high-case natural gas price forecast is

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For This on, and instead the Commission should utilize Evergy's mid-case natural gas costs to price time the same months represented in is a clear indication that the high-case natural gas costs are too high to frame average forecast averages \$7.15/MMbtu, whereas the Southern Star forwards for \$3.11 for Southern Star and \$3.19 for Panhandle the forward curves, Evergy's high-case be relied natural

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1		evaluate the reasonableness of Evergy's decision to build and own 50% of each of
2		the CCGTs in this proceeding.
3 4	III.	Response to the testimony of Mr. Gorman
5	Q.	What testimony of Mr. Gorman are you responding to?
6	A.	I'm responding to Mr. Gorman's assertions that Evergy's 2024 IRP changed the life
7		of Evergy's coal facilities causing an increase in the cost of resource portfolios
8		containing coal resources. According to Mr. Gorman, this results in a resource plan
9		that is biased towards CCGT resources. The fact that I have not responded to the rest
10		of Mr. Gorman's Direct Testimony should not be construed as my agreement with
11		the entirety of that testimony, rather it reflects the limited time available to prepare
12		cross-answering testimony for this Docket.
13	Q.	Please point the Commission to the specific testimony references you wish to
14		refute.
15	A.	On page 14, Mr. Gorman states:
16 17 18 19		Shortening the Commission approved remaining life of the coal production resources increases the NPVRR cost for resource portfolios that include the coal resources. This assumption is not reasonable nor economical.
2021		On page 15, Mr. Gorman states:
22 23 24 25		Changing the Commission's approved expected remaining life of the production facilities increases the cost of resource portfolios that include the coal resources. This assumption biases the Company's planning result toward portfolios that rely on CCGTs.
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Lastly, on page 16 Mr. Gorman states the following:

Early retirement of the coal resources will result in retiring the facility before it is fully depreciated which can have negative impact on the Company's ability to maintain a competitive cost of service to support affordable rates. Specifically, retiring a generating unit before its expected useful life is completed results in abandoned plant cost at retirement because the facility is not yet fully depreciated. Abandoned plant costs will increase the utility's revenue requirement because the utility will need to recover the abandoned plant cost while also start recovering the revenue requirement of the replacement production resource. This early retirement assumption inflates the revenue requirements and distorts the IRP planning economic projection of the NPVRR for the resource portfolio that includes plants that are retired early.

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Q. What is your response to Mr. Gorman's testimony on pages 14 through 16 as restated above?

Mr. Gorman's description of the IRP process in these three testimony references is not entirely accurate. As a member of Commission Staff, I have participated in the review of the Evergy's last three IRP filings, and I can confirm that Mr. Gorman's description of the impact of an early retirement decision is not modeled in the fashion that Mr. Gorman describes.

Evergy's IRP filings do evaluate discrete portfolios of potential early coal retirements, including the costs associated with replacement resources. When this happens, there is no impact on the NPVRR for that discrete portfolio associated with the recovery of the remaining net book value of the asset over a shorter time frame as Mr. Gorman describes. Instead, the IRP modeling assumes the same NPVRR associated with the recovery of the existing net book value of the asset, in a retirement scenario versus a non-retirement scenario. Essentially, Evergy models these

retirement scenarios assuming that the remaining book value of the asset will continue to be recovered in the same fashion and over the same time period as if the unit had not retired. Therefore, Mr. Gorman's description of the IRP modeling is incorrect in that it does not reduce the anticipated life of the coal facilities in each resource portfolio which contains the coal units and thereby increase the resulting NPVRR, which would bias the resource plan selection towards CCGTs.

IV. Conclusions

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Q. What conclusions do you wish the Commission to draw from your Cross-Answering Testimony?

The Commission should conclude, as Staff has, that Evergy's mid-case natural gas forecast is a reasonable estimate of the cost of natural gas to serve the CCGTs. This forecast is conservative when compared to Evergy's historical delivered costs of natural gas, even considering the extreme price shocks of Winter Storm Uri, and it is conservative when compared to the current forward market curves for locally priced natural gas. Accordingly, the Commission should not be convinced by Mr. Jones' testimony where he recommends that the Commission should rely on Evergy's high-case natural gas forecasts to evaluate the CCGTs, or in the places that he criticizes the reasonableness of Evergy's mid-case natural gas forecasts.

The Commission should not be persuaded by Mr. Gorman's Direct Testimony where he asserts that Evergy's IRP modeling is biased towards the early retirement of coal fired generators, and towards the selection of resource plans that contain CCGTs.

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- 2 Q. Does this conclude your testimony?
- 3 A. Yes, thank you.

STATE OF KANSAS)
) ss
COUNTY OF SHAWNEE	j

VERIFICATION

Justin T. Grady, being duly sworn upon his oath deposes and states that he is Deputy Director of the Utilities Division of the Kansas Corporation Commission of the State of Kansas, that he has read and is familiar with the foregoing *Cross Answering Testimony*, and attests that the statements contained therein are true and correct to the best of his knowledge, information and belief.

Justin 7. Grady

Deputy Director of the Utilities Division State Corporation Commission of the

State of Kansas

Subscribed and sworn to before me this 20

day of March, 2025.

Notary/Public

My Appointment Expires:

NOTARY PUBLIC - State of Kansas ANN M. MURPHY

25-EKCE-207-PRE

I, the undersigned, certify that a true and correct copy of the above and foregoing Cross Answering Testimony was served via electronic service this 21st day of March, 2025, to the following:

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