COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

ELECTRONIC APPLICATION OF KENTUCKY
UTILITIES COMPANY AND LOUISVILLE GAS
AND ELECTRIC COMPANY FOR
CERTIFICATES OF PUBLIC CONVENIENCE
AND NECESSITY AND SITE COMPATIBILITY
CERTIFICATES

Case No. 2025-00045

DIRECT TESTIMONY OF CHELSEA HOTALING ON BEHALF OF SIERRA CLUB

June 16, 2025

DIRECT TESTIMONY OF CHELSEA HOTALING ON BEHALF OF SIERRA CLUB BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

Case No. 2025-00045

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LIST OF EXHIBITS

CH-1: Resume of Chelsea Hotaling

1	I. INTRODUCTION & QUALIFICATIONS
2	Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A. My name is Chelsea Hotaling, and my business address is 91 Main Street, Canton, NY
4	13617.
5	Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT POSITION?
6	A. I am a Senior Consultant at Energy Futures Group ("EFG").
7	Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?
8	A. I am testifying on behalf of the Sierra Club.
9	Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND
10	PROFESSIONAL QUALIFICATIONS.
11	A. I have worked for nine years in electric utility regulation and related fields. I have reviewed
12	dozens of integrated resource plans ("IRPs") and related filings by utilities in Arizona,
13	Colorado, Georgia, Kansas, Kentucky, Iowa, Indiana, Michigan, Missouri, Montana,
14	Minnesota, New Mexico, Nova Scotia, Puerto Rico, Wisconsin, and South Carolina. I have
15	performed my own capacity expansion, production cost, and reliability modeling in
16	numerous cases using multiple models, including EnCompass, AURORA, PLEXOS, and the
17	Strategic Energy & Risk Valuation Model ("SERVM").
18	I received a Bachelor's Degree in Accounting and Economics from Elmira College in 2011. I
19	also received a Master of Business Administration Degree in 2012, a Master's Degree in
20	Environmental Policy in 2019, and a Master's Degree in Data Analytics in 2020, all from
21	Clarkson University. My resume is attached as Exhibit CH-1.

1	Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS OR ANY COMMISSION?
2	A. Yes, I filed expert witness testimony in Case No. 2024-00152, Case No. 2022-00371, and
3	Case No. 2022-00387. I have also filed testimony before regulatory commissions in
4	Colorado, Georgia, Iowa, Michigan, Montana, South Carolina, West Virginia, and
5	Wisconsin.
6	II. PURPOSE OF TESTIMONY
7	Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
8	A. The purpose of my testimony is to respond to Kentucky Utilities Company ("KU") and
9	Louisville gas and Electric Company's ("LG&E") (collectively, "KU-LG&E" or the
10	"Companies") request for approval of new supply side resources and to install Selective
11	Catalytic Reduction ("SCR") on Ghent 2. I also respond to the Companies' assumptions for
12	new large load customers that are included in the 2025 Certificate of Public Convenience and
13	Necessity ("CPCN") Load Forecast presented in this proceeding.
14	Q. PLEASE SUMMARIZE YOUR RECOMMENDATIONS FOR THE KENTUCKY
15	PUBLIC SERVICE COMMISSION.
16	A. My recommendations include:
17	• The Commission should deny approval of the new supply side resources requested in
18	this proceeding until the Companies can provide evidence that the customers needed
19	to justify the proposed resource additions have committed to taking service under
20	agreements that require a financial commitment to the Companies. If the Commission
21	does approve the resources requested by the Companies in this proceeding, the
22	Commission should also direct the Companies to evaluate their existing units for
23	retirement to determine the resources that would be most economic to retire in the

1		event that the new customer load does not materialize by 2031, and/or the
2		Commission should disallow recovery of costs for units that are not used and useful.
3		The CC and battery storage resources requested in this proceeding represent 1,660
4		MW of winter firm capacity and the Companies should be directed to evaluate up to
5		that level of existing resource firm capacity for retirement.
6	•	The Commission should deny approval of the SCR for Ghent 2 since the Good
7		Neighbor Plan does not currently apply in Kentucky, and SCR is not necessary to
8		comply with any other currently-applicable environmental compliance requirement.
9	•	If the Companies enter into reservation agreements to secure new generation
10		resources, and if the purpose of securing that new generation resource is to serve an
11		incremental load addition, the cost of that reservation agreement should be borne by
12		the new large load customer(s) and should not be passed on to existing ratepayers.
13	•	The Companies should be required to submit quarterly reports to the Commission to
14		provide updates on the status of new prospective customers. This information should
15		include:
16		1. Customer or Project name;
17		2. Project address;
18		3. Announced Project Load (MW);
19		4. Projected load ramp including load (MW) and timing;
20		5. Changes in project status since the last report to include:
21		a. Updates to announced load;
22		b. Updates to load ramp;

1	c. Project Stage (new project, existing project and undergoing the
2	transmission service request ("TSR") process, contract status –
3	EPC or service agreement)
4	6. Reason for project loss if known (selected alternative state/ project
5	cancelled/ project delayed indefinitely)
6	7. Additional information including: site control, construction progress,
7	permit status, whether or not data center developers have a tenant in place
8	for the site, and the number of projects the developer has experience with.
9	Q. PLEASE SUMMARIZE THE KEY FACTS SUPPORTING THE
10	RECOMMENDATION TO DENY THE COMPANIES' PETITION.
11	A. The key facts include:
12	1. No potential customer in the Company's load queue has made a material financial
13	commitment towards taking service from the Companies.
14 15	2. One of the biggest projects included in the Company's load forecast calculations is
16	seeking a new site after community pushback led it to abandon its original plans.
17 18	3. It does not appear that there has been any material change in the drivers of new load
19	since the production of the 2024 IRP and this filing, e.g., no signed service contracts.
20	Despite this, the Companies have increased their large load projections by 700 MW.
21 22	4. Before they start construction of transmission facilities necessary to interconnect a
23	new, large customer, the Companies require a financial commitment that will ensure
24	recovery of transmission costs in the event the customer does not take service. The

1	Companies have no similar threshold before spending billions of dollars on new
2	generation.
3 4	5. According to the Companies, "No internal documentation exists that the Companies
5	use to assign the stage of economic development projects."1 However, the assigned stage
6	influences the level of large load in the Companies' load forecast.
7 8	6. The data center furthest along in development within the Companies' service territory
9	is a tenant-based developer with no tenant yet announced.
10 11	7. The Companies have very few barriers to entry into their load queue and therefore
12	would have difficulty distinguishing speculative requests from those that are more
13	serious.
14	III. THE COMPANIES' REQUEST FOR NEW RESOURCES
15	Q. WHAT RESOURCES ARE BEING REQUESTED BY THE COMPANIES IN THIS
16	PROCEEDING?
17	A. The Companies are requesting approval for the following resources:
18	• Two 1x1 Combined Cycle ("CC" or "NGCC") resources at 645 MW each. The
19	Brown 12 CC is proposed to be located at the Brown site and in service by 2030. The
20	Mill Creek 6 CC is proposed to be located at the Mill Creek site and in service by
21	2031.
22	• A 400 MW four-hour battery energy storage system to be built at the Cane Run
23	Generating Station to be in service in 2028.

¹ KU/LG&E response to AG-KIUC 2-20(b).

1	• A selective catalytic reduction ("SCR") for Ghent 2 to be in service by 2028.
2	Q. WHAT IS THE TOTAL CAPITAL COST FOR THE RESOURCES REQUESTED IN
3	THIS PROCEEDING?
4	A. The total projected capital costs for the resources requested are approximately \$3.7 billion.
5	Table 1 shows the capital cost for each of the resources requested by the Companies. This
6	includes the capital cost of the resources only and not additional costs for ongoing capital
7	expenditures, variable costs, fixed operations and maintenance ("O&M"), and firm fuel
8	transportation costs.

9

Table 1. Proposed Resource Capital Cost²

Proposed Resource	Capital Cost
Brown 12	\$1,383,000,000
Mill Creek 6	\$1,415,000,000
Cane Run BESS	\$775,000,000
Ghent 2 SCR	\$152,000,000
Total	\$3,725,000,000

10

11 Q. WHAT HAS LED TO THE COMPANIES TO REQUEST APPROVAL FOR THESE

12 **RESOURCES?**

- 13 A. Witness Bevington testified that the Companies have over 8,000 MW of economic
- 14 development load potential, with 6,000 MW related to data centers and the remaining 2,000
- 15 MW for industrial customers.³ Figure 1 shows the comparison between the winter and
- 16 summer peak forecast with and without the economic development load.

²Joint Application at 12. For Brown and Mill Creek, costs include projected capital cost and related gas and electric transmission work.

³ Direct Testimony of Witness Bevington at 5.



1 2

5

Figure 1. Winter and Summer Peak Forecast (MW)⁴

Q. WHAT IS DRIVING THE PROJECTED NEW LOAD IN THE COMPANIES LOAD FORECAST?

6 data center customers in the Companies' load queue average 344 MW and are up to 600 MW

A. The majority of the projected new load growth is from data centers. Many of the prospective

7 in size.⁵ It is important to note that this is a substantial difference in customer makeup from

8 the Companies' current experience as the Companies currently have just four customers with

9 demand greater than 50 MW.⁶

10 Q. WHAT LEVEL OF NEW LOAD DID THE COMPANIES ASSUME IN THE 2025

11 CPCN LOAD FORECAST?

- 12 A. The 2025 CPCN Load Forecast is the High Scenario evaluated in the 2024 Integrated
- 13 Resource Plan ("IRP"). The 2025 CPCN Load Forecast includes an assumption of 1,750 MW

⁴ Exhibit SAW-1, Figure 2 at 11.

⁵ KU/LG&E response to Attorney General and Kentucky Industrial Utility Customers' ("AG-KIUC") 1-33(a) Attachment.

⁶ KU/LG&E response to Joint Intervenors 1-140(i).

1	of data center demand in addition to the 120 MW Phase 2 for the BlueOval SK Battery Park
2	("BOSK").7 The 2025 CPCN Load Forecast also includes 20 MW from an economic
3	development prospect and 19.4 MW from an existing customer's expansion. ⁸
4	Q. WHAT IS THE PROJECTED CAPACITY POSITION FOR THE COMPANIES?
5	A. Table 2 shows the winter capacity position for the Companies under the 2025 CPCN Load
6	Forecast. Under this forecast, the Companies will fall below the winter reserve margin
7	requirement of 29% starting in 2029.9 As Witness Wilson outlined in his testimony, the
8	Companies can accommodate 402 MW from the Camp Ground data center, the 20 MW
9	customer expansion, and BOSK Phase One, but if Phase Two of BOSK is added, then the
10	Companies will not be able to meet their target winter reserve margin without resource
11	additions. ¹⁰

⁷ KU/LG&E response to AG-KIUC 1-26(b).
⁸ Direct Testimony of Witness Jones at 21.
⁹ Exhibit SAW-1 at 34.
¹⁰ Direct Testimony of Witness Wilson at 4-5.

	2028	2029	2030	2031	2032
Peak Load	6,481	6,918	7,386	7,795	7,930
Dispatchable Resources					
Existing Resources	7,977	7,977	7,977	7,977	7,977
Retirement/Additions					
Coal	-597	-597	-597	-597	-597
SCCTs	-55	-55	-55	-55	-55
Mill Creek 5	660	660	660	660	660
Total	7,985	7,985	7,985	7,985	7,985
Reserve Margin	23%	15%	8%	2%	1%
Renewable/Limited-Duration					
Existing Resources	72	72	72	72	72
Existing CSR	111	111	111	111	111
Existing Dispatchable DSM	110	124	125	135	145
Retirements/Additions					
Solar	0	0	0	0	0
Battery Storage	125	125	125	125	125
Total	418	432	433	443	453
Total Supply	8,403	8,417	8,418	8,428	8,438
Total Reserve Margin	29.7%	21.7%	14.0%	8.1%	6.4%
Capacity Need (Excess)	-43	507	1,110	1,628	1,792

Table 2. Winter Capacity Position Under 2025 CPCN Forecast¹¹

2

1

3 Q. ARE THE RESOURCES REQUESTED IN THIS PROCEEDING BEING ADDED TO

4 MEET THE COMPANIES' PROJECTION FOR LOAD GROWTH?

5 A. Yes. Table 3 shows the Companies' projected capacity position if economic development

6 load is removed from the forecast.¹² Without this load, the Companies have excess capacity

7 and are above the winter reserve margin requirement of 29%.

¹¹ Exhibit SAW-1, Table 7 at 23.

¹² Winter peak values are taken from the Companies workpaper named "AWJ_JDL_Charts.xlsx". In response to AG-KIUC 3-1(a), the Companies confirmed that column C in worksheet "Peak_Chart_2" "excludes all economic development, including the projects identified in the Companies' application (Data Centers, BOSK, Auto, etc.)."

	2028	2029	2030	2031	2032
Peak Load	5,997	5,988	5,982	5,975	5,970
Dispatchable Resources					
Existing Resources	7,977	7,977	7,977	7,977	7,977
Retirement/Additions					
Coal	-597	-597	-597	-597	-597
SCCTs	-55	-55	-55	-55	-55
Mill Creek 5	660	660	660	660	660
Total	7,985	7,985	7,985	7,985	7,985
Reserve Margin	30%	30%	30%	30%	30%
Renewable/Limited-Duration					
Existing Resources	72	72	72	72	72
Existing CSR	111	111	111	111	111
Existing Dispatchable DSM	110	124	125	135	145
Retirements/Additions					
Solar	0	0	0	0	0
Battery Storage	125	125	125	125	125
Total	418	432	433	443	453
Total Supply	8,403	8,417	8,418	8,428	8,438
Total Reserve Margin	40.1%	40.6%	40.7%	41.1%	41.3%
Capacity Need (Excess)	-667	-693	-701	-720	-736

1 Table 3. Winter Capacity Position Under 2025 CPCN Forecast and No New Load

2

3 Q. HOW IS THE SCR PROPOSED AT GHENT 2 DRIVEN BY THE ADDITION OF

4 **NEW CUSTOMERS IF THIS IS NOT A NEW RESOURCE ADDITION?**

5 A. The Companies' position is that an SCR is needed at Ghent to comply with the 2015 National

6 Ambient Air Quality Standard for ozone ("2015 Ozone NAAQS") and to be able to operate

7 the unit to serve new customer loads.¹³

¹³ The Companies said, "A Ghent 2 SCR in 2028 will drive self-compliance to NOx reductions that support Kentucky's obligations to 2015 Ozone NAAQS attainment and provides assurance the unit will be available to support economic development load growth." 2024 IRP Volume III, 2024 IRP Resource Assessment at 8.

1	IV. NEW LARGE LOAD ASSUMPTIONS
2	Q. IS THE 2025 CPCN LOAD FORECAST BASED ON SPECIFIC CUSTOMERS THAT
3	HAVE MADE A COMMITMENT TO LOCATE WITHIN THE COMPANIES'
4	SERVICE TERRITORY?
5	A. No, the 2025 CPCN Load Forecast for 1,750 MW of data center load is not based on specific
6	prospective data center customers. The Companies stated the 1,750 MW is an estimate:
7 8 9 10	The 1,750 MW of data center load included in the 2025 CPCN Load Forecast does not consist of specific data center projects; rather, it is a reasonable estimate of how much of the more than 6,000 MW of potential data center load in the Companies' current queue will come to fruition in the near term. ¹⁴
11	Q. DOES THE 2025 CPCN LOAD FORECAST INCLUDE THE SECOND PHASE OF
13	BLUE OVAL ("BOSK")?
14	A. Yes. The contract that the Companies have with BOSK includes the Phase Two load of 120
15	MW. ¹⁵ While the Companies have a contract to include Phase Two, some of the language
16	presented by the Company makes it unclear how fast BOSK might ramp up to the full level
17	of load that includes Phase Two. Witness Jones said, "It is my understanding that all of the
18	electrical facilities necessary for BOSK to take service at the second building are in place,
19	meaning that BOSK could relatively quickly begin taking service for the building at up to
20	120 MW if it decides to proceed." ¹⁶ In a discovery response, the Companies also said, "The
21	building for phase two has already been constructed. The phase two load ultimately will
22	result from growth in consumer demand for EVs." ¹⁷ Based on the Companies responses,
23	there is uncertainty about whether BOSK will ramp up to the full level of load, and if it does,

¹⁴ KU/LG&E response to Staff 1-17.
¹⁵ Direct Testimony of Witness Jones at 20.
¹⁶ Direct Testimony of Witness Jones at 20 (emphasis added).
¹⁷ KU/LG&E response to Sierra Club 2-1(c).

2 **Q. THE COMPANIES HAVE REFERRED TO THE 1,750 MW DATA CENTER LOAD** 3 ASSUMPTION AS "REASONABLE".¹⁸ WHAT LED THE COMPANIES TO 4 **DETERMINE THAT 1,750 MW OF DATA CENTER LOAD IS REASONABLE?** 5 A. Company witnesses testified on several items to support the level of data center load included 6 in the Companies' 2025 CPCN Load Forecast. For example, Witness Jones cited national 7 load growth, Kentucky's efforts to attract data center customers, and the level of prospective customers in the Companies' load queue.¹⁹ 8 9 **O. WHAT SUPPORT HAVE THE COMPANIES PROVIDED FOR THE DERIVATION** 10 **OF THE 1,750 MW OF DATA CENTER LOAD?** 11 A. The Companies' support for the 1,750 MW assumption relies on two reported calculations. 12 The first calculation is an expected value approach that weights the project sizes by assigned 13 probabilities.²⁰ Table 4 shows the breakout of the Companies' load queue with the reported 14 probabilities assigned to each phase prior to the "Announced" phase. The Companies have

15 assigned higher probabilities to the phases that are closer to the "Announced" phase.

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at what time the ramp will happen.

¹⁸ KU/LG&E response to AG-KIUC 2-18(a) states "The Companies did not evaluate a larger range of data center load because they believe 1,750 MW is a reasonable estimate for economic development load growth."
¹⁹ Direct Testimony of Witness Jones at 18.

 $^{^{20}}$ KU/LG&E response to Staff 2-14(a).

Phase	Description	Load	Probability ²²
Inquiry	Early stage of evaluation	1,630	10%
Suspect	Project engaged in information exchange	1,785	20%
Prospect	Regular exchange of information and detailed evaluation of a site	2,200	50%
Imminent	Project has information necessary to make a decision	402	80%
Announced	Signed Contract	0	-

Table 4. Companies Phase Description with Probabilities²¹

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3	According to the Companies, when the probability weights are assigned, the 1,750 MW of
4	data center load falls above the low probability expected value of 1,040 MW and below the
5	mid-probability expected value of 1,905 MW. ²³ The second calculation reported by the
6	Companies assumed that the Camp Ground and Project Lincoln ²⁴ data centers come to
7	fruition at approximately 1,000 MW. Though, as noted above, neither has taken service from
8	the Companies and indeed Project Lincoln is now scouting a new location after abandoning
9	its prior location over community pushback. ²⁵ The Companies then determined the average
10	size of projects in the Suspect, Prospect, and Imminent phases to be 350 MW, and when
11	assigning two additional 350 MW data centers to the KU and LG&E service territories, this
12	resulted in approximately 1,750 MW of data center load. ²⁶ The Companies' justification for
13	this second calculation is that "Adding two such data centers was and is reasonable given the
14	queue of more than 5,000 MW of data center potential after removing the Camp Ground and

²¹ KU/LG&E response to Staff 1-18.
²² KU/LG&E response to Sierra Club 2-9.
²³ KU/LG&E response to Staff 2-14(a).
²⁴ Also known as Project Meridian.

²⁵ https://www.courier-journal.com/story/news/local/2025/06/02/new-location-proposed-for-6-billion-data-center-inoldham-county/83997706007/

²⁶ KU/LG&E response to Staff 2-14(a).

1 Project Lincoln data centers."²⁷ 2 **Q. IS THE ASSUMPTION FOR 1,750 MW OF DATA CENTER LOAD GROWTH** 3 DIFFERENT FROM WHAT WAS MODELED AS THE BASE CASE, OR MID 4 LOAD FORECAST, IN THE 2024 IRP? 5 A. Yes, it is different. The 2024 IRP Mid load forecast assumed 1,050 MW of data center load 6 by 2032.²⁸ The 1,750 MW assumption is from the 2024 IRP High load forecast. 7 **Q. DO YOU KNOW WHY THE COMPANIES USED THE HIGH CASE FROM THE** 8 2024 IRP FOR THE DATA CENTER LOAD INCLUDED IN THE 2025 CPCN LOAD 9 **FORECAST?** 10 A. Company witnesses have pointed to the overall level of the load queue, efforts in Kentucky 11 to advance data center development, and announcements from prospective customers.²⁹ 12 However, it is not clear what has materially changed since the 2024 IRP as it relates to the 13 customers in the Companies' load queue. In terms of contracts, the number of prospective 14 customers that have signed service contracts remains the same as it was during the IRP, i.e., 15 zero. Q. HOW DO YOU RESPOND TO THE COMPANIES POSITION THAT THE 1,750 16 17 **MW PROJECTION OF DATA CENTER LOAD INCLUDED IN THE 2025 CPCN** 18 LOAD FORECAST IS REASONABLE? 19 A. I have concerns with the Companies' position around the 1,750 MW of data center load

20 included in the 2025 CPCN forecast. My concerns are highlighted below, and I will discuss

21 each one in more detail in my testimony:

²⁷ KU/LG&E response to Staff 2-14(a).

²⁸ Direct Testimony of Witness Jones at 8.

²⁹ Direct Testimony of Witness Bevington at 2-10. Direct Testimony of Witness Jones at 14 – 16.

1	1. The Companies do not have a signed electric service agreement ("ESA") with
2	any customers in the load queue. The Companies do have one signed engineering,
3	procurement and special equipment and construction ("EPC") agreement with the
4	Camp Ground project, but that is currently being negotiated since the original
5	EPC agreement did not have a financial security provision. ³⁰
6	2. A limited number of prospective customers have completed or are in process of
7	a Transmission Service Request ("TSR").
8	3. The Companies do not appear to have sufficient information to evaluate the full
9	extent of risks associated with the largest projects in their load queue.
10	When these concerns are taken in totality, the Companies do not have financial commitments
11	from prospective customers to utilize the 1,750 MW of projected data center load to support
12	the need for the resources requested in this proceeding.
13	Q. ARE YOU SAYING THAT THE COMPANIES WILL NEVER HAVE A DATA
14	CENTER LOCATE IN THEIR TERRITORY?
15	A. My position is that relying on 1,750 MW of data center load growth to support committing
16	customers to approximately \$3.7 billion in new generation is not reasonable when the
17	Companies do not have financial commitments from prospective customers. I am not taking a
18	position on whether or not data center load will ever materialize within the Companies'
19	service territories. My concern with the 1,750 MW assumption relates to the investment of
20	billions of dollars in new generation resources that have no guarantee of cost recovery from
21	these new customers and which would significantly raise costs for existing ratepayers if the
22	load that will contribute to the costs of these resources does not materialize or does not reach

³⁰ KU/LG&E response to Sierra Club 3-18(b).

2 **Q. THE COMPANIES HAVE REPORTED THERE ARE 6,000 MWs OF DATA** 3 CENTER LOAD IN THEIR LOAD QUEUE.³¹ ARE ANY OF THESE PROJECTS IN 4 THE "ANNOUNCED" PHASE, OR HAVE A SIGNED ELECTRIC SERVICE 5 **AGREEMENT WITH THE COMPANIES?** 6 A. The Companies do not have any signed Electric Service Agreements ("ESA") with any of the prospective data center customers in the load queue.³² At the time of this filing, the only 7 8 agreement the Companies have signed is an agreement for engineering, procurement and 9 special equipment and construction ("EPC") to interconnect the proposed 402 MW Camp Ground data center.³³ 10 11 **Q. DO THE COMPANIES REQUIRE A FINANCIAL COMMITMENT UNDER AN** 12 **EPC AGREEMENT?** 13 A. A signed EPC agreement with a prospective customer would indicate a greater level of 14 commitment to taking service from the Companies as this agreement precedes the construction of the transmission facilities identified in the Facilities Study and should 15 16 guarantee reimbursement of those costs if the customer does not ultimately take service. 17 Under the EPC process there is some level of financial security required of the prospective 18 customer as it relates to transmission costs: 19 The Companies require the developer to execute an Engineering, 20 Procurement and Construction Agreement prior to the Company incurring 21 any costs on upgrades or modifications to the transmission system to 22 accommodate the load. While no money is collected, the agreement requires the developer to provide security, in a form acceptable to the 23

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the Companies' full load projections.

³¹ Direct Testimony of Witness Bevington at 5.

³² KU/LG&E response to Staff 1-18 and KU/LG&E response to AG-KIIUC 1-35(c).

³³ KU/LG&E response to JI 1-7(a). Please also see KU/LG&E response to Sierra Club 1-12(c)(i) in Case No. 2024-00326.

1 2 3 4 5	Company ³⁴ , that will protect the Company in the event the load does not come to fruition. Specifically, the developer will be liable for all costs incurred by the Company until electric service is taken under an executed contract for the provision of electric service. ³⁵
6	Q. DID THE CAMP GROUND EPC INCLUDE A SECURITY PROVISION?
7	A. The Camp Ground EPC agreement provided by the Companies did not include a security
8	provision. ³⁶ The Companies indicated that their EPC agreements have changed over time and
9	although the November 8, 2024 EPC agreement with Camp Ground does not have a security
10	provision, "the Companies are currently negotiating a new amended agreement that does
11	contain creditworthiness and security provisions appropriate to the increased potential
12	financial commitment." ³⁷
13	Q. DO THE COMPANIES HAVE A FINANCIAL COMMITMENT FOR THE CAMP
14	GROUND PROJECT?
15	A. Since the original EPC agreement did not have a security provision, the Companies do not
16	have a financial commitment for the Camp Ground project at this time. The Companies
17	indicated they are in negotiations for an amended agreement that will include security
18	provisions. However, it is not clear what aspects of the agreement are under negotiation ³⁸ and
19	whether the Camp Ground project will move forward with an amended EPC agreement.
20	Q. THE COMPANIES REQUIRE AN AGREEMENT ENSURING RECOVERY OF A
21	CUSTOMER'S INTERCONNECTION COST BEFORE STARTING

 ³⁴ In response to Sierra Club 3-18(a), the Companies clarified that acceptable forms of security include "cash deposits, guarantees, and letters of credit."
 ³⁵ KU/LG&E response to Southern Renewable Energy Association ("SREA") 2-3(c).

³⁶ KU/LG&E provided the EPC agreement in response to Sierra Club 1-12(c)(i) in Case No. 2024-00326.

³⁷ KU/LG&E response to Sierra Club 3-18(b).

³⁸ In response to Staff 2-14, KU/LG&E reported that an additional TSR for 123 MW has been submitted for the Camp Ground project.



13 Q. WHY DOES IT MATTER IF PROSPECTIVE CUSTOMERS HAVE MADE A

14

COMMITMENT TO THE COMPANIES?

15 A. The level of load growth assumed by the Companies determines the amount of new resource 16 capacity the Companies need to procure to meet the demand of those new customers. In this 17 proceeding, the Companies are requesting resources that amount to \$3.7 billion dollars of 18 capital investment. Assuming more growth than what might materialize risks the Companies 19 overbuilding capacity and passing these costs onto the existing customer base. 20 Additionally, a financial commitment is an indication of seriousness on the part of the 21 customer. Mr. Bevington testified to this point in the hearing in Case No. 2024-00326, 22 saying that "the EPC agreement [when] you ask them to post collateral or you put up some financial mechanism or you tell them that they're going to be on the hook for what we're 23

getting ready to do, you know seeing their reactions to those kinds of things is indicative of
 whether they're serious or not."³⁹

3 Q. ARE OTHER UTILITIES DEVELOPING LOAD FORECASTS USING

4 ASSUMPTIONS AROUND COMMITMENTS FROM PROSPECTIVE

5 **CUSTOMERS?**

6 A. Yes. While not an exhaustive list of utilities across North America, Table 5 shows several 7 utilities within the PJM footprint that require different levels of commitments from 8 prospective customers in order for those customers to be included in the load forecast. One 9 important note for these examples is that PPL, which like KU/LG&E, is also part of the PPL 10 Corporation. Based on the information that PPL provided to PJM about how it incorporates 11 data center load projections into the load forecast, there is a higher threshold than KU/LG&E 12 is using for its forecasting. PPL reported that only data centers with a Signed Agreement are 13 included in the load forecast. PPL's Signed Agreement appears to be similar to the EPC 14 agreement that KU/LG&E enters into with new customers prior to the construction of 15 transmission facilities. Therefore, it is not clear why KU/LG&E has a lower threshold for 16 data center projections included in the load forecast than other subsidiaries of PPL 17 Corporation.

³⁹ <u>https://www.youtube.com/live/cU0_E6gp_r8?si=dQCeJPPre62G3XwH&t=18958</u>.

Electric Utility	Requirement for Inclusion in Forecast
American Electric Power ("AEP") ⁴⁰	 Near-term additions based on contracts in place at the time the forecast is submitted Project must have a signed Letter of Agreement ("LOA")⁴¹ and an Electric Service Agreement ("ESA") in progress
Dominion Energy Virginia ⁴²	 Signed firm contracts are used to validate forecast Firm contracts include a Construction Letter of Authorization⁴³ and an Electric Service Agreement
Exelon (BGE, ComEd, PECO) ⁴⁴	• Customers with signed engineering agreements with financial deposits
PPL ⁴⁵	Only include data center projects with a Signed Agreement ⁴⁶

Table 5. Electric Utilities in PJM with Commitment Requirements

2

1

⁴⁰ AEP Load Adjustment Request Detail provided to PJM. Retrieved from <u>https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/aep-documentation.pdf</u>

⁴¹ In the documentation provided to PJM, AEP states "Both an LOA and ESA are legally binding contracts that include financial commitments from the customer. However, an ESA generally takes the form of a take-or-pay contract in which a customer is required to purchase a minimum amount of energy over several years. An LOA only covers the customer interconnect, including any engineering or infrastructure costs associated with connecting the customer to the system." Retrieved from https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/aep-documentation.pdf

⁴² Dominion Energy Virginia Load Adjustment Request Detail provided to PJM. Retrieved from https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/dominion-documentation.pdf

⁴³ In the documentation provided to PJM, Dominion Energy Virginia states that a Construction Letter of Authorization is "a contract that authorizes the Company to construct transmission and distribution facilities to serve a customer request. This contract obligates the customer to: 1) reimburse the Company for any investments made if the project is canceled and 2) execute an Electric Service Agreement within a fixed period of time after the facilities are in place." Retrieved from https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/dominion-documentation.pdf.

⁴⁴ Exelon Load Adjustment Request Detail Provided to PJM. Retrieved from <u>https://www.pjm.com/-</u>/media/DotCom/planning/res-adeq/load-forecast/exelon-documentation.pdf.

⁴⁵ PPL Load Adjustment Request Detail Provided to PJM. Retrieved from <u>https://www.pjm.com/-</u>/media/DotCom/planning/res-adeq/load-forecast/ppl-documentation.pdf.

⁴⁶ In the documentation provided to PJM, Exelon said under a Signed Agreement, "*PPL proceeds with detailed engineering analysis, offering developers precise estimates for cost, timeline, and preliminary engineering requirements.*" Retrieved from <u>https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/ppl-documentation.pdf.</u>

1	While each utility has some differences in the threshold requirements, the comm	on
2	denominator between them is that some level of a signed agreement and financia	ıl
3	commitment has been made by the prospective customer before those customers	are included
4	in the load forecast. This is in contrast to the approach that the Companies have	taken, where
5	the 2025 CPCN Load Forecast is based on a portion of projects in the Companie	s' load
6	queue, with no requirement for those prospective customers to have demonstrate	d that they
7	have made a financial commitment to the Companies.	
8	Q. WHAT IS A TRANSMISSION SERVICE REQUEST ("TSR") AND WHY	IS THE
9	TSR IMPORTANT?	
10	A. The TSR is an important step because it develops the costs for network upgrades	and
11	interconnection costs for prospective customers. The TSR is submitted by the Co	ompanies to
12	the Independent Transmission Organization ("ITO"), known as TranServ. The T	SR process
13	includes a system impact phase where TranServ evaluates the impact of the requ	ested load on
14	the transmission system, in addition to performing a facilities study which deter	nines the
15	upgrades or modifications necessary to accommodate the load request. ⁴⁷ In order	r to pursue a
16	TSR, the prospective customer does have to cover the cost of the studies, which	the
17	Companies have estimated to be approximately \$50,000.48 While there is a cost	to perform
18	the TSR studies, these are relatively minor financial commitments for customers	who may
19	spend billions of dollars constructing their projects.	
20	Q. HOW MANY OF THE PROJECTS IN THE COMPANIES' LOAD QUEU	E HAVE
21	STARTED THE TRANSMISSION SERVICE REQUEST ("TSR") PROCE	ESS?

⁴⁷ Direct Testimony of Witness Bevington at 13.
⁴⁸ Direct Testimony of Witness Bevington at 13.

1	A. Table 6 shows the number of projects per the Companies' defined phases that have begun the
2	TSR process. The Companies reported 6,017 MW of data center load in the Companies' load
3	queue, and out of those projects, five TSRs have been submitted for 1,252 MW, or
4	approximately 21% of the pipeline. ⁴⁹ The Companies have said that there is no specific phase
5	at which it becomes appropriate for a customer to ask that a TSR be submitted. ⁵⁰ It is
6	important to note that 750 MW of the 2,200 MW TSR in the Prospect phase represents one
7	customer (Meridian) that was considering 100 MW at one site and 650 MW at another site. ⁵¹
8	Since this filing, Project Meridian is no longer pursuing the 650 MW site due to community
9	pushback and is reverting to the 100 MW site, although that TSR has lapsed. ⁵² If that 750
10	MW is removed, then the Companies have TSRs that amount to 502 MW.

11

Table 6. MW of Load with a TSR per Phase of the Interconnection Process⁵³

Phase	Description	Load (MW)	TSR	TSR (MW) ⁵⁴
Inquiry	Early stage of evaluation	1,630	None	-
Suspect	Project engaged in information exchange	1,785	None	-
Prospect	Regular exchange of information and detailed evaluation of a site	2,200	3 projects ⁵⁵	850
Imminent	Project has information necessary to make a decision	402	2 requests for one project ⁵⁶	402
Announced	Signed Contract	0	-	-

12

Q. DO THE COMPANIES HAVE DATA ON THE LEVEL OF TRANSMISSION 13

INVESTMENT NEEDED TO INTERCONNECT PROSPECTIVE CUSTOMERS IN 14

⁴⁹ KU/LG&E response to Staff 1-18(a).

⁵⁰ LG&E/KU technical conference held on June 10, 2025.

⁵¹ KU/LG&E response to SREA 2-3(a).

 ⁵² KU/LG&E response to Sierra Club 3-11.
 ⁵³ KU/LG&E response to Staff 1-18.

⁵⁴ KU/LG&E response to AG-KIUC 35(a)(b)(f).

⁵⁵ In response to Staff 1-18 the Companies indicated there are six projects in this stage and three TSRs have been submitted for two customers.

⁵⁶ In response to Staff 1-18, the Companies indicated there are TSRs for the project in the Imminent phase.

1 **THE LOAD QUEUE?**

A. Yes. Based on information provided by the Companies, five Facilities Studies have been
completed for prospective customers. Table 7 shows the network upgrades and network
interconnection costs for each of the studies along with the timeline needed to develop the
interconnection facilities and network upgrades. The total interconnection facilities cost is
\$217,606,955.

7

Table 7. Information from Facilities Study⁵⁷

			Interconnection	Network	Network
TSR		Interconnection	Facilities	Upgrades	Upgrades
Study	MW	Facilities Cost	Timeline	Cost	Timeline
2024-001	335	\$29,113,536	36 months	\$1,151,329	30 months
2024-011	67	\$0	NA	\$330,765	37 months
2024-012	100	\$21,923,756	30 months	\$790,800	36 months
2024-013	650	\$47,801,757	70 months	\$399,239	24 months
2024-014	100	\$118,767,906	64 months	\$0	NA

8

9 Q. HAVE THE COMPANIES PROVIDED INFORMATION RELATED TO

10 TRANSMISSION COSTS FOR CUSTOMERS THAT HAVE NOT COMPLETED

11 **THE TSR PROCESS?**

12 A. Yes, in discovery the Companies provided an internal document that provides transmission

13 cost estimates for prospective customers.⁵⁸ The Companies' estimates are based on the level

- 14 of requested load and site location for the prospective customers. Upon reviewing this
- 15 document, there are two important takeaways. First, some of the interconnection costs for
- 16 prospective customers will be influenced by the location of other prospective customers. For
- 17 example, was evaluated with two other customers (

⁵⁷ KU/LG&E response to AG-KIUC 3-4(a).

⁵⁸ KU/LG&E response to Sierra Club 1-41(b) Attachment.

1), with estimated transmission costs of \$, while the cost with
2	and without was estimated at \$.59 This was also the case for
3	another project, and whether or not a specific prospective customer was
4	included (identified as). Regardless of the other customer, the transmission cost
5	estimate was \$, but without the other customer, the transmission cost estimate wa
6	⁶⁰ Second, the review of the estimates provided by the Companies also showed
7	increasing transmission costs at certain sites when higher levels of load were evaluated. For
8	example, one prospective project was evaluated at three different tiers of load levels (
9	MW, MW, and MW), and the corresponding transmission cost estimates were
10	\$, \$, and \$. ⁶¹ Another prospective customer was evaluated
11	at MW and MW, and the transmission cost estimate increased from \$ to
12	\$. 62
13	Q. HOW ARE THESE TRANSMISSION COSTS ALLOCATED?
14	A. My understanding is that the transmission costs will be recovered, but it is not clear if the
15	new customer bears the responsibility for the interconnection facilities and network upgrades
16	are recovered from all customers. It will be helpful for the Companies to clarify in their
17	rebuttal testimony how the transmission costs would be allocated. The Companies'
18	transmission allocation policy says that "Network Facilities" are charged to rates while "End
19	User Facilities" are assigned to the new customer. Those terms are not used in the System
20	Impact Study and Facilities study, instead those studies include the terms "Network
21	Interconnection Facilities" and "Network Upgrades". None of the discovery responses by the

⁵⁹ KU/LG&E response to Sierra Club 1-41(b) Attachment.
⁶⁰ KU/LG&E response to Sierra Club 1-41(b) Attachment.
⁶¹ KU/LG&E response to Sierra Club 1-41(b) Attachment.
⁶² KU/LG&E response to Sierra Club 1-41(b) Attachment.

Companies clarify how these terms relate to each other so ambiguity about the recovery of
 these costs remains. Any cost not allocated directly to a large customer are likely to be
 recovered in rates from all customers.

4 Q. WHAT INFORMATION HAVE THE COMPANIES GATHERED ON THE

5

PROSPECTIVE CUSTOMERS IN THEIR LOAD OUEUE?

6 A. The Companies appear to be basing the evaluation of prospective customers on ongoing 7 conversations the Companies have with those customers and collecting a handful of data 8 points on the prospective customers. The Companies said they "project the likelihood that a 9 project will locate in the service territories based on conversations, meetings, research on 10 their history (if the actual company is known), and most often work alongside the state and 11 local communities as a project continues to evaluate the client as interactions intensify."⁶³ On 12 the other hand, the Companies also stated that "No internal documentation exists that the Companies use to assign the stage of economic development projects."⁶⁴ Even if the 13 14 Companies are tracking some information⁶⁵ related to the prospective projects in the load queue, there seems to be a significant gap in the information the Companies should be 15 16 tracking to help assess the risks of the prospective customers and the information the 17 Companies do have. For instance, the Companies reported they have not assessed the creditworthiness of new load customers;⁶⁶ do not know how many customers have applied 18 for construction, water use, or air quality permits;⁶⁷ and do not know if projects are 19

⁶³ KU/LG&E response to AG-KIUC 1-36(b).

⁶⁴ KU/LG&E response to AG-KIUC 2-20(b).

⁶⁵ KU/LG&E response to AG-KIUC 1-36(b) indicates the Companies do ask questions about site control and zoning.

⁶⁶ KU/LG&E response to AG-KIUC 2-29(b).

⁶⁷ KU/LG&E response to Joint Intervenors 2-7 (c).

- 1 considering multiple jurisdictions.⁶⁸
- 2 **Q. WHY IS IT IMPORTANT FOR THE COMPANIES TO GATHER MORE**

3 **INFORMATION ON PROSPECTIVE CUSTOMERS?**

- 4 A. It is crucial that the Companies gather as much information as possible to be able to
- 5 appropriately assess the risks of each prospective customer in the load queue. For instance,
- 6 the Northern Virginia Electric Cooperative ("NOVEC") has a process for identifying risks
- 7 related to data centers in its load queue:

8 NOVEC staff thoroughly vet each individual project in NOVEC's data center 9 development queue to identify any projects that are at a high risk of failure. High 10 risk factors can include outstanding zoning issues, lack of firm site plan from the 11 customer, technical issues related to electric service, among others. Any project that 12 is deemed as a high-risk project by NOVEC staff is excluded from NOVEC's load forecast and can only be added to the load forecast after all outstanding issues have 13 14 been resolved. NOVEC staff also ensure that customers have not submitted 15 duplicate requests for the same project at multiple locations and that multiple customers have not submitted requests to develop projects on the same tract of land, 16 17 eliminating the risk of double counting.⁶⁹

18

Q. ARE PROJECTS IN THE COMPANIES' LOAD QUEUE IMMUNE TO RISKS 19

20 **RELATED TO WHETHER OR NOT THE PROJECT WILL MATERIALIZE?**

- 21 A. No. And one of the prospective projects, referred to as Project Lincoln or Project Meridian,
- 22 wanted to locate at a site that was not zoned for a data center. Kentucky LLC or WHP, the
- developer of the project, filed plans for a hyperscale data center on land zoned for 23
- 24 agricultural and conservation use.⁷⁰ In addition to concerns around zoning, this project also
- 25 faced pushback from residents that have expressed concern about the data center being

⁶⁸ KU/LG&E response to Joint Intervenors 2-7(d).

⁶⁹ NOVEC Load Adjustment Request Detail Provided to PJM. Retrieved from https://www.pjm.com/-

[/]media/DotCom/planning/res-adeq/load-forecast/novec-documentation.pdf ⁷⁰ Retrieved from <u>https://www.wdrb.com/in-depth/oldham-county-looks-to-pause-data-center-deals-amid-pushback-</u> over-6b-project/article d51c7f32-ff65-4e5e-a982-ddd9eae91e47.html

1		located in a rural location. ⁷¹ There also could be some risks around developer experience for
2		this project. In an interview given by a WHP representative, it is not clear whether this
3		developer has actually successfully constructed a datacenter either in Kentucky or elsewhere.
4		In the interview, the WHP representative reported involvement in a proposed data center in
5		Illinois and another project "in a very well-established data center market" in the northeast,
6		and when asked for more information and the response was that the "group is under 'layers
7		of NDAs'". ⁷²
8	Q.	HAVE THERE BEEN ANY RECENT UPDATES FOR PROJECT
9		MERIDIAN/PROJECT LINCOLN?
10	A.	Yes. In response to a discovery question, the Companies indicated that because of the
11		pushback from concerned citizens, Project Meridian is no longer moving forward with plans
12		to locate at the site identified in the TSR request for 650 MW and will be pursuing the first
13		site identified where a TSR was performed for 100 MW. ⁷³ It is not clear if the TSR for 100
14		MW will be resubmitted or if a TSR for a higher load request will be made for that site. ⁷⁴
15		Based on information provided by the Companies, the TSR study process typically takes six
16		to seven months to complete. ⁷⁵ It is unclear at this time what the potential transmission cost
17		impacts might be at the first site for a load request increasing from 100 MW to 650 MW.

⁷² Retrieved from <u>https://www.wdrb.com/in-depth/data-center-developer-chose-very-suitable-oldham-county-site-after-talks-with-lg-e/article_faafa110-3ef7-44c4-8dd7-9d2736df3fa2.html</u>

⁷³ KU/LG&E response to Sierra Club 3-11. Also see <u>https://www.courier-journal.com/story/news/local/2025/06/02/new-location-proposed-for-6-billion-data-center-in-oldham-county/83997706007/</u>

⁷¹ Retrieved from <u>https://www.wdrb.com/in-depth/oldham-county-looks-to-pause-data-center-deals-amid-pushback-over-6b-project/article_d51c7f32-ff65-4e5e-a982-ddd9eae91e47.html</u>

⁷⁴ KU/LG&E response to Sierra Club 3-11 indicates the Project Meridian 1 TSR for 100 MW has "lapsed and dropped out of the queue."

⁷⁵ KU/LG&E response to AG-KIUC 2-38(a).

1	Q.	YOU HAVE MENTIONED THAT THE COMPANIES SHOULD GATHER
2		INFORMATION ON DIFFERENT RISK ITEMS FROM THEIR PROSPECTIVE
3		CUSTOMERS. IF THE COMPANIES HAVE INFORMATION ON WHETHER OR
4		NOT THE PROSPECTIVE CUSTOMER HAS SITE CONTROL, IS THAT
5		SUFFICIENT TO GAUGE THE LEVEL OF RISK FOR THE CUSTOMER?
6	A.	No, only having information on site control is not sufficient. While it is an important data
7		point for the Companies to be aware of, it is not the only risk factor for the prospective
8		customers. For instance, in discovery, the Companies reported that one of the five projects in
9		the "Prospect" stage had let the land control option expire, but reported that customer "has
10		expressed interest in continuing evaluation pending the outcome of other projects in the
11		economic development queue." ⁷⁶ Knowing whether a customer has site control must be
12		supplemented by information about the nature of that control and whether the customer has
13		permission to use the site from the relevant permitting authorities.
14	Q.	ARE THERE OTHER RISK ITEMS RELATED TO THE PROSPECTIVE DATA
15		CENTER CUSTOMERS IN THE COMPANIES' LOAD QUEUE?
16	A.	Yes, in particular as it relates to the type of data center customers in the queue. Prospective
17		data center customers might include the likes of major companies like Microsoft, Meta,
18		Amazon, and Google, or they might be data center developers. Data center developers look
19		to develop a site and then find a tenant that the site can be leased to. The data center
20		developers pose an additional risk because they need to find tenants to lease space, otherwise
21		the facility will remain unutilized or underutilized. For example, the Companies reported that

⁷⁶ KU/LG&E response to Joint Intervenors 2-7(a).

1	a tenant for the Camp Ground data center (also refe	rred to as "Poe" or "PowerHouse" ⁷⁷) had
2	not been determined as of the date of the Companie	s' response to the first set of discovery
3	questions, but that the "Companies currently anticip	ate a tenant will be announced during the
4	pendency of this proceeding. ⁷⁸ In another response,	the Companies said "To the best of the
5	Companies' knowledge, there are no announced ten	ants or users for the projects that have
6	been announced at this point."79 Having information	n on whether or not data center developers
7	do have a tenant is important information for the Co	ompanies to track and utilize to evaluate
8	the risk for that prospective customer.	
9	Q. WHEN CUSTOMERS HAVE NOT MADE A C	OMMITMENT TO THE
10	COMPANIES AND THEY ARE IN THE LOAD	QUEUE, IS THERE A RISK THAT
11	THOSE CUSTOMERS ARE ALSO IN ANOTH	ER ELECTRIC UTILITY'S LOAD
12	QUEUE, AND POTENTIALLY, ANOTHER UT	TILITY'S LOAD FORECAST?
13	A. Yes. When customers have not made a commitment	to take service, the risk exists that those
14	customers are also pursuing alternative locations in	other utility service jurisdictions. The
15	Companies acknowledged that is it common for pro	jects to "evaluate multiple communities
16	and states as they work to find the most suitable loc	ation for operations."80 When there are
17	low barriers for entry into a utility's load queue, i.e.	no costs or time limits for how long the
18	customer can be in the queue, that tips the balance t	owards a likelihood that the prospective
19	customer will enter multiple queues. When there is	no or relatively little cost for customers to
20	be in numerous load queues, the likelihood of those	customers entering numerous queues at
21	the same time is high since they bear relatively little	e risk and potentially significant benefit in

⁷⁷ KU/LG&E response to Staff 2-15.
⁷⁸ KU/LG&E response to AG-KIUC 1-44 and KU/LG&E response to LMG-LFUCG-1-32.
⁷⁹ KU/LG&E response to Staff 1-28(a).
⁸⁰ KU/LG&E response to Joint Intervenors 1-5(f).

1	1	holding that queue position. On the transmission side, the \$50,000 cost of a TSR study is a
2	1	relatively minor financial commitment for customers who may spend billions of dollars
3	C	constructing their project.
4	r	The cost risk is solely on the utility and the weight the utility gives to the prospective
5	C	customers in the queue and whether or not they are counted in the utility's load forecast.
6	Q.]	HOW MIGHT THE COMPANIES IMPROVE THEIR PROCESS FOR TRACKING
7]	PROSPECTIVE CUSTOMERS?
8	A. 7	There are several steps the Companies can take to make improvements. First, the Companies
9	S	should collect additional information on prospective customers to help identify and assess
10	1	risks for those customers. Second, the Companies should implement processes to raise the
11	ł	barrier for entry into the load interconnection queue. ⁸¹ I will discuss each of these
12	1	recommendations in more detail below.
13	Q.]	HOW MIGHT THE COMPANIES IMPROVE HOW RISKS ARE ASSESSED FOR
14]	PROSPECTIVE CUSTOMERS?
15	A. I	In addition to the information I have recommended the Companies to collect, I think there are
16	S	some useful parallels to the evaluation of responses to an all-source request for proposals
17	(("RFP"). Not all responding projects nor all loads will materialize and there are many non-
18	C	cost factors that can impact the likelihood of project success. For example, when utilities
19	i	issue an RFP, it is not uncommon for the responding bids to be evaluated based on certain
20	C	criteria, not just project cost, but also development status or deliverability of a project. This
21	i	information is commonly used to determine which bids should rise to the top or advance to a

⁸¹ References to a load interconnection queue mean all of the prospective customers that the Companies are tracking and not just those customers that are undergoing and have completed the TSR process.

1	"short list", for further consideration. Table 8 shows some of the evaluation criteria used by
2	AES Indiana for its 2024 RFP. Projects were evaluated based on development status and
3	developer experience, with established criteria set points, such as achievement of site control
4	or completion of a System Impact Study for the development status, and whether or not the
5	developer has established other assets in locations within a certain proximity or achieved
6	required permits for the project. All of these criteria could be applied to new, large loads as
7	well in the Kentucky context.

⁸

Development Status	Developer Experience
Executed a Pro-Forma MISO Facility	Developer has established in-service asset(s)
Service Agreement ("FSA")	in the same county as proposed capacity asset(s)
Achieved site control under MISO queue requirements	Developer has established in-service asset(s) in a comparable county or permitting jurisdiction to that of the proposed capacity asset(s)
Completed a MISO System Impact Study	Developer has not established assets in the same county as proposed capacity asset, but county has favorable permitting ordinance(s) in place
Completed a MISO Facilities Study	Developer and proposed capacity asset have not achieved all required permits and do not meet any of the three items above
Completed all environmental studies/permits	
Awarded an EPC Contract	

Table 8. AES RFP	[,] Evaluation ⁸²
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9

⁸² Retrieved from <u>https://aesindianarfp.com/Portals/0/Documents/RFPDocuments/AES_Indiana_2024_RFP_Evaluation_Criteria.pdf</u>

1	Q. IF THE COMPANIES HAVE AN OBLIGATION TO SERVE NEW CUSTOMERS,
2	WHY ARE YOU DRAWING A PARALLEL BETWEEN THE INFORMATION
3	GATHERED AND USED IN EVALUATING BIDS FOR A GENERATION RFP AND
4	THE INFORMATION THE COMPANIES GATHER FOR PROSPECTIVE NEW
5	LARGE LOAD CUSTOMERS?

6 A. I am making this comparison to highlight the differences in how risk for proposed generation 7 projects is evaluated as compared to the risks with prospective new load customers. 8 Forecasting the level of new large load customer growth when significant financial 9 commitments from those customers have not been made presents a significant risk of 10 overbuilding capacity and burdening existing ratepayers with the costs of that capacity. With 11 rising costs for CCs and CTs, the error of planning for a customer that is 650 MW and 12 assumed to be served by a CC, represents approximately \$1.4 billion dollars of capital 13 investment, without considering the ongoing fuel and maintenance expenses over the lifetime 14 of that unit.⁸³ Significant investments are needed to meet prospective new load growth, especially as it relates to data centers. Given the level of capital needed to serve these 15 16 customers, there should be a high level of scrutiny for the requests submitted to the 17 Companies in order to protect the existing ratepayers. My point is that there is a discrepancy 18 between the rigor and caution applied to supply side resources compared to requests from 19 large loads. 20 Q. WHAT DOES IT MEAN IF THERE IS A LOW BARRIER TO ENTRY FOR A LOAD

21 **INTERCONNECTION QUEUE**⁸⁴?

⁸³ Witness Bellar discusses the cost increases from the Mill Creek 5 CC to the proposed Brown 12 and Mill Creek 6 CC at page 10 of his testimony.

⁸⁴ References to a load interconnection queue mean all of the prospective customers that the Companies are tracking and not just those customers that are undergoing and have completed the TSR process.

1	A. A low barrier to entry refers to a load interconnection queue that has limited, or no
2	requirements for a prospective customer to be included in the queue. In the instance of a lo
3	barrier to entry, it is possible that a prospective customer could contact the utility to express
4	interest in locating in the service territory, and that would be the only requirement for that
5	prospective customer to be included in the load queue.
6	Q. WHAT IS THE IMPACT OF HAVING A LOW BARRIER TO ENTRY FOR A
7	LOAD INTERCONNECTION QUEUE?
8	A. Figure 2 provides an example of two different load interconnection queues: one that has a
9	low barrier to entry and one that has a high barrier to entry. For the low barrier to entry,
10	Figure 2 reflects a larger volume of speculative projects (represented by the red circles),
11	whereas the high barrier to entry represents a lower number of speculative projects and a
12	larger number of credible customers in the queue. Under a low barrier to entry, there is an
13	increase in the likelihood of more speculative requests, i.e., customers being in many
14	different utility load interconnection queues, since there are no costs the customer faces for
15	being in those different queues.



2 Figure 2. Barrier to Entry Example⁸⁵ 3 Q. ARE THERE IMPROVEMENTS THE COMPANIES CAN MAKE TO THEIR LOAD 4 INTERCONNECTION QUEUE?

1

5 A. Yes, improvements in the load interconnection queue go hand in hand with improvements in 6 the data the Companies track for prospective customers. Table 9 provides examples of 7 recommendations from a recent paper published by Elevate Energy Consulting and GridLab, 8 which includes several factors the Companies could implement. These improvements cover 9 four different categories. The first is financial commitments, which could include non-10 refundable fees and deposits, higher study fees, mile-stone based payment schedules, prepayment for network upgrades, or withdrawal penalties. The second category is site control 11 12 and this includes signed agreements or contracts, proof of zoning compatibility, and permits. 13 The third category is financial credibility and this includes providing examples of financial strength such as credit ratings or audited financial statements. The last category includes 14 15 avoiding duplicative requests, which includes having evidence of agreements between third-16 party developers and their customers.

⁸⁵ Elevate Energy Consulting and Gridlab (May 2025). Practical Guidance and Considerations for Large Load Interconnections, Figure 3.2 at 26. Retrieved from <u>https://gridlab.org/portfolio-item/practical-guidance-and-considerations-for-large-load-interconnections/</u>

	Recommendations
Higher Financial Commitments	 Significantly higher non-refundable application fees and deposits, sometimes based on \$/MW demand capacity. Higher study fees Milestone-based payment schedules Pre-payment for network upgrades Withdrawal penalties
Site Control	 Signed purchase agreement, long-term lease, or option contract Proof of zoning compatibility Air quality, water use, stormwater, and wetland permits
Financial Credibility	 Example of financial strength such as credit rating Audited financial statements
Avoiding duplicative requests	 Agreements between third-party developers and end-use customers Contract, letter of intent, or binding agreement between developers and end-use consumers

Table 9. Recommendations to Improve Interconnection Requirements⁸⁶

2

1

3 Q: BECAUSE THE COMPANIES HAVE PROPOSED A LARGE LOAD TARIFF⁸⁷ IN

4 THE RATE CASE, DOES THAT ADDRESS THE CONCERNS YOU HAVE RAISED

5 ABOUT THE 2025 CPCN LOAD FORECAST AND RISKS OF OVERBUILDING?

- 6 A: No, it does not. While I understand the Companies have proposed a new large load tariff,
- 7 ultimately, the prospective customers still need to sign a contract with the Companies to be
- 8 responsible for the costs that would be assigned to them under the proposed tariff. At this
- 9 time, the Companies do not have signed electric service agreements with any of the
- 10 prospective customers. The barometer for whether load will materialize is dependent on

⁸⁶ Elevate Energy Consulting and Gridlab (May 2025). Practical Guidance and Considerations for Large Load Interconnections, Figure 3.2 at 32. Retrieved from <u>https://gridlab.org/portfolio-item/practical-guidance-and-considerations-for-large-load-interconnections/</u>

⁸⁷ Referred to as Extremely High Load Factor.

1	whether prospective customers accept service under the proposed tariff.
2	Q. ARE THERE OTHER RISKS TO BE AWARE OF RELATED TO NEW LARGE
3	LOAD CUSTOMERS?
4	A. Yes, experience from other jurisdictions suggests risks associated with changes to ramp rates,
5	modifications to announced load levels, projects dropping out of the load queue, and a
6	difference in the level of load that materializes once a project is online compared to the level
7	of load announced by the customer.
8	Q. DO YOU HAVE EXAMPLES OF SOME OF THESE DATA POINTS FROM OTHER
9	JURISDICTIONS?
10	A Yes, some examples that are worthy to note are Georgia Power and the Electric Reliability
11	Council of Texas ("ERCOT").
12	Q. WHAT INFORMATION DOES GEORGIA POWER REPORT TO THE GEORGIA
13	PUBLIC SERVICE COMMISSION?
14	A. Georgia Power provides the following data points to the Georgia Commission ⁸⁸ on a
15	quarterly basis:
16	1. Customer or Project name;
17	2. Project address;
18	3. Announced Project Load (MW);
19	4. Projected load ramp including load (MW) and timing;
20	5. Changes in project status since the last report to include:
21	a. Updates to announced load;
22	b. Updates to load ramp;

⁸⁸ Attachment A in the Order Adopting Stipulation in Georgia Power's Amended 2023 Integrated Resource Plan Update. Docket No. 55378.

1	c. Project Stage (new project, existing project and undergoing the
2	transmission service request ("TSR") process, contract status – EPC or
3	service agreement)
4	6. Reason for project loss if known (selected alternative state/ project cancelled/
5	project delayed indefinitely)
6	

7

Q. WHAT HAS THE DATA COLLECTED BY GEORGIA POWER SHOWN AS IT

8 **RELATES TO NEW LARGE LOAD CUSTOMERS?**

9 A. Table 10 and Table 11 show some of the data points that Georgia Power reports across the 10 quarterly load reports that are submitted to the Georgia Commission. Some of the 11 information Georgia Power includes in the quarterly reports are the level of load that has left 12 the queue, the reasons for the customer leaving the queue (if known), projected changes to 13 announced load, and changes to load ramp rates. Table 10 provides information on how 14 much the existing load levels have changed as it relates to the customer's initial announced level of load and the ramp rate. For the "Projected Load Change" column, this reflects 15 16 adjustments customers have made to the level of load that was initially reported to Georgia 17 Power and is shown as a net basis for all customers in the queue. For each quarterly report, 18 with the exception of the change between quarter two and quarter three, there was an overall 19 downward adjustment in the projected load from customers. The column labeled as "Average 20 Change in Ramp" shows the average amount of load that was modified due to the customer 21 modifying the ramp rate for the project. Ramp rate refers to the projection for how the 22 customer's load will grow, or ramp, over time. It is typical for a new customer, especially a 23 data center, not to have all of the load show up overnight. Instead, the load usually has a 24 projection in how it will ramp up over time. For instance, a prospective customer might 25 announce an intended load level of 300 MW by 2031, but that will occur in incremental

1	additions of 100 MW leading up to 2031. The customer might start at 100 MW in 2029, grow
2	to 200 MW in 2030, and then reach the full announced load of 300 MW in 2031. The data
3	collected by Georgia Power indicates that the customers that have remained in the load queue
4	have made downward adjustments to their announced levels of load and the ramp rates.

5

Table 10. Georgia Power Load Reports

	Projected Load Change (MW) ⁸⁹	Average Change in Ramp (MW)
2023 IRP and Q1 ⁹⁰	-204 MW	-429 MW
Q1 and Q2 ⁹¹	-581 MW	-472 MW
Q2 and Q3 ⁹²	134 MW	-165 MW
Q3 and Q4 ⁹³	-1,000 MW	-847 MW

6

7 Table 11 shows the number of projects that have left Georgia Power's load queue and the 8 reason for the project leaving the queue. Tracking information around why projects have left 9 the queue can help load forecasts become more accurate and give the Companies an idea 10 around the risk of projects dropping out of their queue. The information from Georgia 11 Power's queue indicates there is some risk with projects being canceled or delayed 12 indefinitely, whether for financial or other reasons. Projects selecting alternative states also 13 touches on the risk I highlighted earlier in my testimony as it relates to prospective customers 14 being in multiple utility load queues at the same time as the customer evaluates which utility 15 jurisdiction it might select.

⁸⁹ A negative number represents the customers in Georgia Power's queue making a downward adjustment to the announced load levels.

⁹⁰ Workbook named "PD Large Load Economic Development Report Q1 2024". Docket No. 55378.

⁹¹ Georgia Power Company's Large Load Economic Development Report Q2 2024 at 2. Docket No. 55378.

⁹² Georgia Power Company's Large Load Economic Development Report Q3 2024 at 2. Docket No. 55378.

⁹³ Georgia Power Company's Large Load Economic Development Report Q4 2024 at 2. Docket No. 55378.

	Canceled	Delayed Indefinitely	Selected Alternative State
Q1 and Q2 ⁹⁴	5	3	1
Q2 and Q395	5	0	3
Q3 and Q4 ⁹⁶	2	0	2

Table 11. Georgia Power Load Reports: Reasons Projects Left Queue

2

1

3 Q. WHAT DATA DOES ERCOT INCOROPORATE INTO ITS LOAD FORECAST?

4 A. For its 2025 Forecast, ERCOT made two changes in how it incorporates data center load into

5 the load forecast. First, ERCOT evaluated the requested MWs compared to the peak

6 consumption for data centers with in-service dates in 2022 through 2024 and found the

7 average peak consumption per site to be 49.8% of the requested MWs from those data

8 centers.⁹⁷ Second, ERCOT evaluated the percentage of projects with in-service dates in 2024

9 that have energized and found that to be 55.4%.⁹⁸ With those two data points, ERCOT

10 adjusted its forecast downward to reflect the 49.8% and 55.4% calculations.

11 Q. HOW SHOULD THE COMPANY IMPROVE THE DATA IT TRACKS FOR

12 **PROSPECTIVE CUSTOMERS?**

13 A. The Companies should be required to file quarterly reports for submission to the Commission

14 that are similar to the information Georgia Power submits. In addition, the Companies should

- 15 also be directed to track and report on information including site control, construction
- 16 progress, permit status, whether or not data center developers have a tenant in place for the
- 17 site, and the number of projects the developer has experience with. I make this

⁹⁴ Workbook named "PD Large Load Economic Development Report Q2 2024". Docket No. 55378.

⁹⁵ Workbook named "PD Large Load Economic Development Report Q3 2024". Docket No. 55378.

⁹⁶ Workbook named "PD Large Load Economic Development Report Q4 2024". Docket No. 55378.

 ⁹⁷ 2025 ERCOT System Planning Long-Term Hourly Peak Demand and Energy Forecast (April 8, 2025) at 9.
 Retrieved from <u>https://www.ercot.com/files/docs/2025/04/08/ERCOT-2025-Long-Term-Load-Forecast-Report.pdf</u>
 ⁹⁸ 2025 ERCOT System Planning Long-Term Hourly Peak Demand and Energy Forecast (April 8, 2025) at 10.
 Retrieved from https://www.ercot.com/files/docs/2025/04/08/ERCOT-2025-Long-Term-Load-Forecast-Report.pdf

1	recommendation because the Companies have indicated there is an internal tracking process,
2	but implementing a reporting mechanism on the data points I have recommended will allow
3	for the Companies to reflect their ongoing conversations with prospective customers in these
4	quarterly reports in a transparent manner that is available for all stakeholders to review.
5	V. THE RISK OF OVERBUILDING
6	Q. THE COMPANIES HAVE STATED THAT THE 2025 CPCN LOAD FORECAST IS
7	REASONABLE, BUT HAVE ALSO MADE CLAIMS THAT THE RESOURCES
8	REQUESTED IN THIS PROCEEDING WILL CONTINUE TO BE PRUDENTLY
9	EVALUATED. HOW DO YOU RECONCILE THOSE TWO STATEMENTS?
10	A. The testimony presented in this proceeding from the Companies sets the tone for a sense of
11	urgency for making resource decisions to serve prospective new customer load. Witness
12	Tummonds said:
13 14 15 16	The Companies are requesting CPCNs at this time so they can ensure the timely execution of their cost-effective plans, position themselves to meet their obligation to reliably serve customers in the years ahead, and avoid future increases in NGCC pricing given the tightening NGCC market. ⁹⁹
18	As I have outlined in my testimony, the Companies do not have firm commitments for the
19	level of load that has been included in the 2025 CPCN forecast, which is 1,750 MW.
20	Planning to add new resources for new customer load growth that has not made firm
21	commitments to the Companies introduces the risk that the Companies may be in a position
22	of significantly overbuilding their system. In response to several discovery questions on the
23	potential for the Companies to be in a position of excess capacity if the load does not
24	materialize, the Companies said:

⁹⁹ Direct Testimony of Witness Tummonds at 9.

1 2 3 4 5 6 7 8	But it is also important to bear in mind that receiving a CPCN for a particular resource does not mean the Companies will proceed with it irrespective of changed circumstances. [] Thus, the Companies will act on any CPCN authority granted in this proceeding only insofar as it is reasonable and prudent to do so. ¹⁰⁰ The Companies will continue to prudently evaluate the proposed investments and would not move forward if the proposed generation resources do not align with the load. ¹⁰¹
9 10	With this response, the Companies seem to be indicating there is still time even after the
11	current docket concludes to decide whether the proposed resources will be procured and
12	constructed, assuming approval for the CPCN is granted by the Commission. However, it is
13	unclear what the timeframe is for making that decision. Table 12 shows dates for some of the
14	key milestones for the Cane Run battery storage project and the Brown 12 CC. The
15	information provided by the Companies indicates some significant milestones after which the
16	Companies would likely be obligated to additional contractual costs, like the Limited Notice
17	to Proceed ("LTNP") for Brown 12 and purchasing equipment for the Cane Run battery
18	project, are happening before the end of 2025. When asked about at what point in the project
19	timeline it would be too late for the Companies to make a decision to not move forward with
20	constructing the resources requested in this proceeding, the Companies referenced the
21	execution of the EPC contracts in mid-2026 as a point when the Companies "will have
22	expended appreciable cost." ¹⁰² In addition, the Companies have not articulated any factors
23	that would lead to a change in decision to build these projects. When asked about what
24	circumstances the Companies would consider for not moving forward with a project, the
25	Companies indicated they "do not have a predetermined list of circumstances to consider." ¹⁰³

¹⁰⁰ KU/LG&E response to Staff 2-14(b).
¹⁰¹ KU/LG&E response to AG-KIUC 2-22(f).
¹⁰² KU/LG&E response to Sierra Club 3-13(e).
¹⁰³ KU/LG&E response to Sierra Club 4-3(a).

- 1 The commitment to reassess their decision comes with no accompanying explanation of what
- 2 would lead the Companies to reverse course.
- 3

Table 12. Cane Run and Brown 12 Project Timelines¹⁰⁴

Project	Milestone	Date Start	Date End
Cane Run BESS	Purchase equipment	11/2025	11/2025
Cane Run BESS	Execute EPC Agreement	1/27/2026	1/27/2026
Cane Run BESS	Construction starts	8/25/2026	
Brown 12	End date for reservation agreement	-	6/30/2026
Brown 12	Execute Limited Notice to Proceed	8/26/2025	8/26/2025
Brown 12	Execute Final Notice to Proceed	5/23/2026	5/23/2026
Brown 12	Construction starts	6/22/2026	

4

5 Q. AS PART OF THE COMPANIES' PLANS TO SERVE NEW LOAD CUSTOMERS,

6 HAVE THE COMPANIES ENTERED INTO A RESERVATION AGREEMENT FOR

7 ANY OF THE RESOURCES PROPOSED IN THIS PROCEEDING?

- 8 A. Yes, the Companies executed a Unit Reservation Agreement with GE for the proposed
- 9 Brown 12 CC.¹⁰⁵ The Companies agreed to pay \$25 million to GE to ensure the equipment
- 10 will be manufactured and delivered for commercial operation in 2030 and to lock in firm
- 11 pricing. Based on the timeline shown in Table 12, the end date for this reservation agreement

12 is June 30, 2026.

13 Q. WHAT HAPPENS TO THE RESERVATION AGREEMENT FOR BROWN 12 IF

14 THE COMPANIES DO NOT MOVE FORWARD WITH THE CONTRACT?

- 15 A. Based on the information provided by the Companies, my understanding is that if the
- 16
- 17

¹⁰⁴ Brown 12 information provided in KU/LG&E response to AG-KIUC 1-28(a) Attachment 2. Cane Run BESS information provided in KU/LG&E response to AG-KIUC 1-29 Attachment.

¹⁰⁵ Direct Testimony of Witness Bellar at 11.

		.106
2	Q.	HOW COULD THIS RISK BE MITIGATED TO ENSURE THAT EXISTING
3		CUSTOMERS ARE NOT HELD RESPONSIBLE FOR COSTS INCURRED FOR
4		RESOURCES NEEDED TO SERVE NEW PROSPECTIVE CUSTOMERS?
5	A.	The Companies appear to have taken the position that data centers can be built faster than
6		new generation can so that is why the Companies need to start now before service
7		agreements have been signed. It is not clear where the Companies are in the process with
8		prospective customers in terms of the prospective customers being close to signing an
9		electric service contract. Making significant investments in generation without any financial
10		commitments from prospective customers places the risk on existing ratepayers. If the
11		Companies want to enter into agreements to secure new resources that are not supported by
12		firm commitments from new prospective customers, then any costs associated with that
13		agreement should be assigned to the prospective customer(s) and/or borne by the Companies.
14		Existing customers should not be held responsible for these costs.
15	Q.	YOU HAVE STATED IN YOUR TESTIMONY THAT THERE IS A RISK THAT
16		THE COMPANIES MIGHT OVERBUILD TO MEET NEW CUSTOMER LOAD
17		THAT HAS NOT MADE A COMMITMENT TO THE COMPANY. HAVE THE
18		COMPANIES STATED HOW THEY WOULD RESPOND TO BEING IN A
19		POSITION OF HAVING EXCESS CAPACITY IF THE RESOURCES PROPOSED
20		IN THIS CPCN ARE APPROVED AND THE PROJECTED LOAD DOES NOT
21		MATERIALIZE?

¹⁰⁶ KU/LG&E response to Staff 1-34(a).

1	A.	In response to a question from the AG-KIUC, the Companies stated that if in a position of
2		overcapacity, the Companies could pursue capacity sales:
3 4		That aside, if the Companies were in an over-capacity situation, they would expect to find counterparties interested in purchasing capacity and energy
5		given the anticipated capacity shortages in multiple surrounding systems
6		and the projected national doubling of data center demand and other
7		anticipated load growth. ¹⁰⁷
8		
9		However, in a follow up discovery response, the Companies then clarified that a capacity sale
10		is not expected, but that it could be an option:
11		Please note the Companies are not in an RTO. Thus, a capacity sale or other firm
12		power sale would require undesignating the applicable unit(s) from their status as
13		Designated Network Resources ("DNRs") that enables their Network Integrated
14		Transmission Service ("NITS") to serve native load. Undesignated units would
15		no longer be available to serve native load. Inerefore, the Companies do not
10		expect to make capacity sales; rather, they were simply holing that it could be an
18		option in an over-capacity situation.
19		Based on the first response from the Companies, it appears that the pathway for addressing a
20		position of overcapacity if the projected load does not materialize would be to pursue
21		capacity sales. In the follow up response, the Companies seemed to clarify that if that option
22		was pursued then the Companies would need to undesignate that unit to be able to enter into
23		a capacity sale, which would mean that resource would no longer be available to serve native
24		load. From what the Companies have said, this appears to mean that in order to recoup
25		revenue associated with the capacity sale, the resource could no longer be used to serve the
26		Companies' load. And, importantly, there is no guarantee that a capacity sale would occur at
27		a price that would recoup the investment in the projects.

Q. IF THE COMPANIES RECEIVE APPROVAL AND BUILD THE RESOURCES 28

¹⁰⁷ KU/LG&E response to AG-KIUC 1-42(c).¹⁰⁸ KU/LG&E response to AG-KIUC 2-9.

1		REQUESTED IN THIS PROCEEDING, AND THE LOAD DOES NOT
2		MATERIALIZE, IS THERE ANOTHER COURSE OF ACTION?
3	A.	Yes, the alternative option is that if the Companies are in a position of overcapacity, or
4		having excess resources above and beyond the winter reserve margin, then resources can be
5		retired.
6	Q.	HAVE THE COMPANIES IDENTIFIED EXISTING RESOURCES THAT MIGHT
7		BE SUBJECT TO RETIREMENT?
8	A.	Yes. As Witness Wilson mentions in his testimony, Brown 3, Mill Creek 3, and Mill Creek 4,
9		will face landfill storage capacity limits in the future. ¹⁰⁹
10	Q.	WHAT IS YOUR RECOMMENDATION RELATED TO THE COMPANIES ASK
11		FOR APPROVAL OF THE RESOURCES REQUESTED IN THIS PROCEEDING?
12	A.	Based on the information the Companies have presented to date, there is not sufficient
13		evidence of firm customer commitments to the Companies to support the level of resources
14		requested in this proceeding. I offer these recommendations:
15		• The Commission should deny approval of the new supply side resources requested in
16		this proceeding until the Companies can provide evidence that the customers needed
17		to justify the proposed resource additions have committed to taking service under
18		agreements that will cover appropriate costs. If the Commission does approve the
19		resources requested by the Companies in this proceeding, the Commission should
20		also direct the Companies to evaluate their existing units for retirement to determine
21		the resources that would be most economic to retire in the event that the new
22		customer load does not materialize by 2031, and/or the Commission should disallow

¹⁰⁹ Direct Testimony of Witness Wilson at 18.

1	recovery of costs for units that are not used and useful. The CC and battery storage
2	resources requested in this proceeding represent 1,660 MW ¹¹⁰ of winter firm capacity
3	and the Companies should be directed to evaluate up to that level of existing resource
4	firm capacity for retirement.
5	• If the Companies enter into reservation agreements to secure new generation
6	resources, and if the purpose of securing that new generation resource is to serve an
7	incremental load addition, the cost of that reservation agreement should be borne by
8	the new large load customer(s) and should not be passed on to existing ratepayers.
9	<u>VI. GHENT 2</u>
10	Q. THE COMPANIES HAVE STATED AN SCR IS NEEDED AT GHENT 2 FOR
11	ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE
11 12	ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO?
11 12 13	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the
11 12 13 14	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection
11 12 13 14 15	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection Agency ("EPA") has the authority to set National Ambient Air Quality Standards
 11 12 13 14 15 16 	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection Agency ("EPA") has the authority to set National Ambient Air Quality Standards ("NAAQS") for several criteria pollutants, including ground-level ozone (also known as
 11 12 13 14 15 16 17 	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection Agency ("EPA") has the authority to set National Ambient Air Quality Standards ("NAAQS") for several criteria pollutants, including ground-level ozone (also known as smog), which is caused, in part, by emissions of nitrogen oxides ("NOx") from large power
 11 12 13 14 15 16 17 18 	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection Agency ("EPA") has the authority to set National Ambient Air Quality Standards ("NAAQS") for several criteria pollutants, including ground-level ozone (also known as smog), which is caused, in part, by emissions of nitrogen oxides ("NOX") from large power plants.
 11 12 13 14 15 16 17 18 19 	 ENVIRONMENTAL COMPLIANCE. WHAT COMPLIANCE ARE THE COMPANIES REFERRING TO? A. The Companies have reported that an SCR is needed for Ghent 2 in order to comply with the 2015 Ozone NAAQS.¹¹¹ Under the Clean Air Act ("CAA"), the Environmental Protection Agency ("EPA") has the authority to set National Ambient Air Quality Standards ("NAAQS") for several criteria pollutants, including ground-level ozone (also known as smog), which is caused, in part, by emissions of nitrogen oxides ("NOX") from large power plants. WHAT TOOL IS USED TO ATTAIN AND MAINTAIN COMPLIANCE WITH

21 A. At a high level, EPA is responsible for setting the NAAQS at a level requisite to protect

¹¹⁰ Winter capacity of each CC at 660 MW and Cane Run battery at 340 MW.¹¹¹ Direct Testimony of Witness Imber at 2.

1	public health, and then designating every area of the cou	untry (typically at the county level) as
2	either being in attainment (i.e., meeting), nonattainment	(i.e., failing to meet), or
3	unclassifiable (i.e., unable to determine compliance). Ea	ach state then has a responsibility for
4	developing and implementing a State Implementation P	lan ("SIP"), which outlines how a
5	state will implement, maintain, and enforce NAAQS. If	an area is designated as being in
6	nonattainment, the state must generally require pollution	n reductions from sources within the
7	area to ensure compliance with the NAAQS. States are	required to submit a SIP and if the
8	EPA disapproves a SIP or if a state does not submit a SI	P, then the EPA must issue a federal
9	implementation plan ("FIP").	
10	Q. WHAT IS THE GOOD NEIGHBOR PROVISION (OF THE CLEAN AIR ACT?
11	A. The good neighbor provision of the Clean Air Act aims	to address interstate pollution, which
12	is when pollution from upwind emission sources impact	the air quality in a different state
13	downwind. ¹¹² In general, each SIP (or if the state fails to	o develop a lawful plan, each FIP)
14	must include provisions ensuring that pollution from wi	thin the state does not contribute
15	significantly to nonattainment in any other state.	
16	Q. WHAT IS THE GOOD NEIGHBOR PLAN?	
17	A. The EPA released the Good Neighbor Plan on June 5, 2	023, after the EPA disapproved of
18	several SIPs, including Kentucky's plan, for failing to c	urb emissions that contribute to
19	nonattainment in downwind states. At a very high level,	EPA's 2023 plan would have
20	required existing large sources of NOx, including coal-b	ourning power plants, in Kentucky to
21	meet a NOx emission rate commensurate with the instal	lation and operation of selective
22	catalytic reduction technology during the ozone season	ozone (approximately May through

¹¹² https://www.epa.gov/Cross-State-Air-Pollution/what-cross-state-air-pollution

September). Alternatively, an affected power plant could reduce operations during ozone
 season, or purchase NOx allowances from other sources.

3 Q. HAS THE GOOD NEIGHBOR PLAN FACED LEGAL CHALLENGES?

- 4 A. Yes, the Good Neighbor Plan has faced legal challenges. As Witness Imber discussed in his
- 5 testimony, several events have taken place. First, following the EPA's disapproval of
- 6 Kentucky's SIP, Kentucky filed a lawsuit challenging EPA's underlying SIP disapproval,
- 7 and in December 2024, the Sixth Circuit Court of Appeals vacated EPA's SIP disapproval
- 8 for Kentucky. As a result, EPA's Good Neighbor Plan does not apply to Kentucky.¹¹³
- 9 Separately, in June 2024, the U.S. Supreme Court stayed the effectiveness of the Good
- 10 Neighbor Plan pending the completion of litigation. In March 2025, the EPA announced an
- 11 intention to reconsider the Good Neighbor Plan altogether.

12 Q. DOES THE GOOD NEIGHBOR PLAN APPLY TO KENTUCKY?

13 A. My understanding is that the Good Neighbor Plan does not apply to Kentucky at this time,

- 14 and will not apply to Kentucky unless and until EPA reconsiders and disapproves Kentucky's
- 15 SIP in light of the Sixth Circuit's decision. Even if EPA disapproved the SIP again, the Good
- 16 Neighbor Plan will not be effective until various challenges to the rule itself are resolved,
- 17 likely by the Supreme Court.

18 Q. IF THE GOOD NEIGHBOR PLAN DOES NOT CURRENTLY APPLY TO

19 KENTUCKY, WHY ARE THE COMPANIES ASKING FOR APPROVAL TO ADD

- 20 THE SCR TO GHENT 2?
- A. The Companies assert that the proposed SCR at Ghent 2 is needed in the event that the EPA
 once again disapproves Kentucky's SIP on remand from the Sixth Circuit, and in the event

¹¹³ Direct Testimony of Witness Imber at 5.

1	that the Good Neighbor Plan itself is ultimately upheld. ¹¹⁴ Witness Imber also provides other
2	reasons for pursuing the SCR, which include the possibility that downwind states might
3	someday petition EPA to require upwind states to reduce emissions under a separate
4	provision of the Clean Air Act, and the possibility that EPA could someday adopt a more-
5	stringent ozone standard that might require further emission reductions. ¹¹⁵ Neither of those
6	hypothetical future possibilities justifies spending \$152 million to install SCR at Ghent 2.
7	Mr. Imber also asserts that relaxing the 2015 Ozone NAAQS does not appear to be a priority
8	of the Trump Administration, but it is not clear why this is relevant because, as noted, under
9	the current NAAQS, Ghent 2 has no obligation to install or operate SCR. ¹¹⁶
10	Q. HAVE THE COMPANIES ALSO ASSERTED A NEED FOR THE SCR BECAUSE
11	OF LOAD GROWTH?
12	A. Yes. In addition to the Company's position on environmental compliance, the Companies
13	assert that an SCR for Ghent 2 is needed for load growth. ¹¹⁷ As I have discussed in my
14	testimony, however, the Companies do not currently have signed electric service agreements
15	with any prospective customers and there is not enough information on the Companies
16	projection for 1,750 MW of new load. In any case, regardless of load growth, there are
17	currently no final and effective environmental compliance obligations that would require the
18	Companies to install SCR at Ghent 2.
19	Q. DO THE COMPANIES HAVE AN ALTERNATIVE TO ADDING AN SCR TO

20

GHENT 2 IF THE EPA DOES APPROVE KENTUCKY'S SIP?

¹¹⁴ Direct Testimony of Witness Imber at 8.
¹¹⁵ Direct Testimony of Witness Imber at 8.
¹¹⁶ Direct Testimony of Witness Imber at 9.

¹¹⁷ 2024 IRP Volume III, 2024 IRP Resource Assessment at 8.

1	A. Yes. In the 2024 IRP and this CPCN docket, the Companies modeled an alternative pathway
2	for Ghent 2 where the unit would only operate during the non-ozone months (October -
3	April) and would be unavailable during the ozone season (May – September).
4	Q. WHAT IS YOUR RECOMMENDATION FOR THE SCR THE COMPANIES ARE
5	REQUESTING FOR GHENT 2?
6	A. Since the Good Neighbor Plan does not currently apply to Kentucky at this time, other
7	requirements for nitrogen oxides reductions at the Companies' coal units are speculative, and
8	the Companies do not have firm contracts in place with prospective large load customers, the
9	Commission should not approve the SCR for Ghent 2 at this time.
10	VII. CONCLUSION
11	Q. OVERALL, WHAT ARE YOUR RECOMMENDATIONS TO THE COMMISSION
12	IN THIS PROCEEDING?
13	A. My recommendations include:
14	• The Commission should deny approval of the new supply side resources requested
15	resources requested in this proceeding until the Companies can provide evidence that
16	the customers needed to justify the proposed resource additions have committed to
17	taking service under agreements that require a financial commitment to the
18	Companies. If the Commission does approve the resources requested by the
19	Companies in this proceeding, the Commission should also direct the Companies to
20	evaluate their existing units for retirement to determine the resources that would be
21	most economic to retire in the event that the new customer load does not materialize
22	by 2031, and/or the Commission should disallow recovery of costs for units that are
23	not used and useful. The CC and battery storage resources requested in this

1	proceeding represent 1,660 MW of winter firm capacity and the Companies should be
2	directed to evaluate up to that level of existing resource firm capacity for retirement.
3	• The Commission should deny approval of the SCR for Ghent 2 since the Good
4	Neighbor Plan does not currently apply in Kentucky.
5	• If the Companies enter into reservation agreements to secure new generation
6	resources, and if the purpose of securing that new generation resource is to serve an
7	incremental load addition, the cost of that reservation agreement should be borne by
8	the new large load customer(s) and should not be passed on to existing ratepayers.
9	• The Companies should be required to submit quarterly reports to the Commission to
10	provide updates on the status of new prospective customers. This information should
11	include:
12	1. Customer or Project name;
13	2. Project address;
14	3. Announced Project Load (MW);
15	4. Projected load ramp including load (MW) and timing;
16	5. Changes in project status since the last report to include:
17	a. Updates to announced load;
18	b. Updates to load ramp;
19	c. Project Stage (new project, existing project and undergoing the
20	transmission service request ("TSR") process, contract status –
21	EPC or service agreement)
22	6. Reason for project loss if known (selected alternative state/selected
23	alternative supplier/Project cancelled/project delayed indefinitely)

1	7. Additional information including: site control, construction progress,
2	permit status, whether or not data center developers have a tenant in place
3	for the site, and the number of projects the developer has experience with.
4	Q. DOES THIS CONCLUDE YOUR TESTIMONY?
5	A. Yes.

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF KENTUCKY UTILITIES COMPANY AND LOUISVILLE GAS AND ELECTRIC COMPANY FOR **CERTIFICATES OF PUBLIC CONVENIENCE** AND NECESSITY AND SITE COMPATIBILITY **CERTIFICATES**

Case No. 2025-00045

AFFIDAVIT OF CHELSEA HOTALING IN SUPPORT OF DIRECT TESTIMONY ON BEHALF OF SIERRA CLUB

State of Florida County of St Lucie

Chelsea Hotaling

Chelsea Hotaling

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SUBSCRIBED, ACKNOWLEDGED, AND SWORN to before me by Chelsea Hotaling this 16 day of June 2025.



Antoinette Robinson Notary Public - State of Florida Comm. Expires 09-07-2028 Commission # HH526405

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Notarized Online with NotaryLive.com

My Commission expires: 09/07/2028

touts Thom ette Robinson, Notary Public

Notary Public

Notary ID No.: HH526405

Sworn to (or affirmed) and subscribed before me by means of ____Physical Present, or X Online Notarization,

this16th day of JUN, 2025 by CHELSEA HOTALING who provided identification of NY DL



Chelsea Hotaling Senior Consultant

PROFESSIONAL SUMMARY

Chelsea is a Consultant at Energy Futures Group specializing in integrated resource planning and load forecasting. Prior to joining EFG, Chelsea held a research position at Clarkson University while completing her Master's in Data Analytics and Environmental Policy & Governance. Chelsea's research focused on multi-stakeholder microgrids for resiliency. She also participated in the Reforming the Energy Vision (REV) proceedings for the Potsdam (NY) microgrid REV project. Chelsea's current work is focused on all aspects of Integrated Resource Planning including capacity expansion and production cost modeling and load forecasting. Chelsea runs the EnCompass model in support of long-term planning exercises such an IRP analyses and has critiqued IRP modeling performed using Aurora, PLEXOS, PowerSimm, and System Optimizer. Chelsea has also conducted capacity expansion, production cost, and reliability modeling using the EnCompass, Aurora, PLEXOS, and SERVM models. Chelsea has experience working with numerous software programs including Python, R, and Stata.

EXPERIENCE

2025-present: Senior Consultant, Energy Futures Group, Hinesburg, VT
2021-2024: Consultant, Energy Futures Group, Hinesburg, VT
2020-2021: Senior Analyst, Energy Futures Group, Hinesburg, VT
2019-2020: Analyst, Energy Futures Group, Hinesburg, VT
2018-2019: Intern, Sommer Energy, Canton, NY
2016-2019: Research Assistant, Clarkson University, Potsdam, NY

EDUCATION

- M.S., Data Analytics, Clarkson University, 2020
- M.S., Environmental Policy and Governance, Clarkson University, 2019
- MBA, Concentration in Environmental Management, Clarkson University, 2012
- B.S., Accounting and Economics, Elmira College, 2011

SELECTED PROJECTS

 Clean Wisconsin. Performed capacity expansion and production cost modeling within PLEXOS to evaluate alternative resource portfolios to the plan put forward by Wisconsin Electric Power Company. (2024 – 2025)

Chelsea Hotaling | Senior Consultant

- West Virginia Citizen Action Group, Solar United Neighbors, and Energy Efficient West Virginia. Reviewed the commitment and operation of the Amos, Mitchell, and Mountaineer generating units during the 2023-2024 review period. (2024) Reviewed the commitment and operation of the Harrison and Fort Martin generating units during the 2022-2023 review period. (2023)
- The South Carolina Coastal Conservation League and Southern Alliance for Clean Energy. Evaluated Santee Cooper's 2024 Annual Integrated Resource Plan Update. (2023-2024) Evaluated Dominion Energy South Carolina's 2024 Annual Integrated Resource Plan Update. (2023-2024) Performed EnCompass and SERVM modeling to evaluate a clean energy replacement portfolio for proposed coal plant retirements in the Santee Cooper 2023 IRP. (2023) Performed SERVM modeling to evaluate a clean energy replacement portfolio for proposed coal plant retirements in the Dominion Energy South Carolina 2023 IRP. (2023) Evaluation of Dominion Energy South Carolina's 2020 Integrated Resource Plan. (2020)
- The Ecology Center, the Environmental Law & Policy Center, the Union of Concerned Scientists, and Vote Solar. Performed capacity expansion and production cost modeling within EnCompass to put forward an alternate plan to DTE's preferred plan in its 2022 IRP. (2022 to 2023)
- GridLab. Performed capacity expansion and production cost modeling within EnCompass to identify resource mixes to achieve 100% emissions-free electricity by 2035 for the Public Service Company of New Mexico's electric system. (2022 to 2023)
- Sierra Club. Evaluated Louisville Gas & Electric and Kentucky Utilities 2024 Integrated Resource Plan and performed capacity expansion and production cost modeling within PLEXOS in support of those comments. (2024-2025). Performed capacity expansion and production cost modeling within EnCompass to evaluate retirement and replacement of MidAmerican's coal plants. (2022 to 2023)
- Minnesota Center for Environmental Advocacy. Evaluated Xcel Energy's 2024 Integrated Resource Plan and performed EnCompass modeling in support of that evaluation (2024). Evaluated Otter Tail Power's 2021 Integrated Resource Plan and EnCompass modeling in support of that evaluation. (2022 to 2024) Evaluated Minnesota Power's 2021 Integrated Resource Plan and performed EnCompass modeling in support of that evaluation. (2021 to 2022) Evaluated Xcel Energy's 2020 Integrated Resource Plan and performed EnCompass modeling in support of that evaluation. (2019 to 2021)
- Citizens Action Coalition of Indiana. Comments regarding Duke Energy Indiana's integrated resource plans to meet future energy and capacity needs (May 2022). Comments regarding Northern Indiana Public Service Company's integrated resource plans to meet future energy and capacity needs. (March 2022) Comments regarding Southern Indiana Gas and Electric's integrated resource

plans to meet future energy and capacity needs (November 2020). Comments regarding Indianapolis Power and Light's integrated resource plans to meet future energy and capacity needs (April 2020). Comments regarding Indiana Michigan Power Company's integrated resource plans to meet future energy and capacity needs (December 2019).

- Natural Resources Defense Council. Reviewed and provided comments on Ameren Missouri's 2023 Integrated Resource Plan. (2023)
- Kentucky Resources Council and Kentuckians for the Commonwealth. Reviewed and provided comments on Big Rivers Electric 2023 Integrated Resource Plan. (2023)
- Kentuckians for the Commonwealth, Kentucky Solar Energy Society, and Mountain Association. Reviewed and provided comments on East Kentucky Power Cooperative's 2022 Integrated Resource Plan. (2022)
- Kentuckians for the Commonwealth, Kentucky Solar Energy Society, Metropolitan Housing Coalition, and Mountain Association. Reviewed and provided comments on Louisville Gas & Electric and Kentucky Utilities' 2021 Integrated Resource Plan. (2022)
- The Council for the New Energy Economics. Reviewed and submitted comments on Evergy's IRP filing in Kansas and Missouri (2020 – 2024) Participated in Evergy's integrated resource plan stakeholder workshops and performed EnCompass modeling to evaluate coal plant retirements (2020 to 2021).
- The Department of Attorney General and Sierra Club. Reviewed and submitted testimony on the Aurora modeling Indiana Michigan Power Company performed for its 2021 Integrated Resource Plan. (2022)
- The Environmental Law and Policy Center, The Ecology Center, Union of Concerned Scientists, and Vote Solar. Performed Aurora modeling to evaluate higher levels of distributed solar for the Consumers Energy Company's 2021 Integrated Resource Plan. (2020 to 2021)
- Colorado Office of the Utility Consumer Advocate. Performed EnCompass modeling related to the Public Service Company of Colorado's 2021 Electric Resource Plan. (2021)
- EfficiencyOne. Supported EfficiencyOne's participation in Nova Scotia Power's integrated resource planning process. (2019 to 2020)
- Washington Electric Cooperative. Conducted the analysis for the 2020 Integrated Resource Plan. (2019 to 2020)
- Coalition for Clean Affordable Energy. Evaluated the Public Service Company of New Mexico's abandonment and replacement of the San Juan generating station and performed EnCompass modeling to develop an alternative replacement portfolio. (2019 to 2020)



SELECTED PUBLICATIONS

Hotaling, C., Bird, S., & Heintzelman, M. D. (2021). Willingness to pay for microgrids to enhance community resilience. Energy Policy, 154, 112248.

Atems, B., & Hotaling, C. (2018). The effect of renewable and nonrenewable electricity generation on economic growth. Energy Policy, 112, 111-118.

Bird, S., & Hotaling, C. (2017). Multi-stakeholder microgrids for resilience and sustainability. Environmental Hazards, 16(2), 116-132.

Bird, S., Enayati, A., Hotaling, C., and Ortmeyer, T. (2017). Resilient Community Microgrids: Governance and Operational Challenges. In Energy Internet: An Open Energy Platform to Transform Legacy Power Systems into Open Innovation and Global Economic Engine, edited by Alex Q. Huang and Wencong Su. Elsevier.

EXPERT TESTIMONY

Before the Public Service Commission of Wisconsin, Docket No. 6630-CE-317. Application of Wisconsin Electric Power Company for a Certificate of Public Convenience and Necessity to Construct and Operate the South Oak Creek Combustion Turbine Project. On behalf of Clean Wisconsin.

Before the Public Service Commission of Wisconsin, Docket No. 6630-CE-316. Application of Wisconsin Electric Power Company for a Certificate of Public Convenience and Necessity to Construct and Operate the Paris Reciprocating Internal Combustion Engines Project. On behalf of Clean Wisconsin.

Before the Public Service Commission of Montana, Docket No. 2024.05.053. NorthWestern Energy's Application to Increase Retail Electric and Natural Gas Utility Service Rates and for Approval of Service Schedules, Cost Allocation, and Rate Design. On behalf of Montana Environmental Information Center, Human Resource Council District XI, Natural Resources Defense Council, and NW Energy Coalition ("Joint Parties").

Before the Public Service Commission of West Virginia, Case No. 24-0413-E-ENEC. *Petition to Initiate the Annual Review and to Update the ENEC Rates Currently in Effect.* On behalf of West Virginia Citizen Action Group, Solar United Neighbors, and Energy Efficient West Virginia.



Chelsea Hotaling | Senior Consultant

Before the Georgia Public Service Commission, Docket No. 55378. *Georgia Power Company's 2023 Integrated Resource Plan Update*. On behalf of Georgia Interfaith Power & Light.

Before the Public Service Commission of West Virginia, Case No. 23-0735-E-ENEC. *Petition and General Investigation to Determine Reasonable Rates and Charges on and after January 1, 2024.* On behalf of West Virginia Citizen Action Group, Solar United Neighbors, and Energy Efficient West Virginia.

Before the South Carolina Public Service Commission, Docket No. 2023-154-E. On behalf of the South Carolina Coastal Conservation League and Southern Alliance for Clean Energy.

Before the South Carolina Public Service Commission, Docket No. 2023-9-E. On behalf of the South Carolina Coastal Conservation League, Southern Alliance for Clean Energy, and Sierra Club.

Before the Michigan Public Service Commission, Case No. U-21193. *In the Matter of the Application of DTE Electric Company for Approval of its Integrated Resource Plan Pursuant to MCL 460.6t, and for other relief,* on behalf of the Ecology Center, the Environmental Law & Policy Center, the Union of Concerned Scientists, and Vote Solar.

Before the Kentucky Public Service Commission, Case Number 2022-00387. In the Matter of Electronic Tariff Filing of Kentucky Power Company for Approval of a Special Contract with Ebon International, LLC, on behalf of Mountain Association, Kentuckians for the Commonwealth, Appalachian Citizens' Law Center, Sierra Club, and Kentucky Resources Council.

Before the Kentucky Public Service Commission, Case Number 2022-00371. In the Matter of Electronic Tariff Filing of Kentucky Utilities Company for Approval of an Economic Development Rider Special Contract with Bitiki-KY, LLC, on behalf of Kentuckians for the Commonwealth, Kentucky Solar Energy Society, Mountain Association, and Kentucky Resources Council.

Before the Iowa Utilities Board, Docket No. RPU-2022-0001. Application for a Determination of Ratemaking Principle, on behalf of Environmental Intervenors.

Before the Michigan Public Service Commission, Case No. U-21189. In the Matter of the Application of Indiana Michigan Power Company for Approval of its Integrated Resource Plan Pursuant to MCL 460.6t, Avoided Costs and for Other Relief, on behalf of Attorney General Dana Nessel and Sierra Club.

Chelsea Hotaling | Senior Consultant

Before the Michigan Public Service Commission, Case No. U-21090. *In the Matter of the Application of Consumers Energy Company for Approval of its Integrated Resource Plan Pursuant to MCL 460.6t and for Other Relief*, on behalf of the Environmental Law and Policy Center, the Ecology Center, Union of Concerned Scientists, and Vote Solar.

Before the Public Utilities Commission of Colorado, Proceeding No. 21A-0141E. *In the Matter of the Application of Public Service Company of Colorado for Approval of its 2021 Electric Resource Plan and Clean Energy Plan*, on behalf of the Colorado Office of the Utility Consumer Advocate.

