



Via Electronic Case Filing

August 4, 2025

Executive Secretary Lisa Felice
Michigan Public Service Commission
7109 West Saginaw Highway
Post Office Box 30221
Lansing, MI 48909

RE: Case No. U-21859

Executive Secretary Lisa Felice,

Please find attached the following for paperless filing in the above captioned matter:

- Motion for Leave to File Corrected Rebuttal Testimony Instanter
- Exhibit A, U-21859 DCC Second Supplemental Response to MNSC's Second Set of Discovery
- Exhibit B, Consumers Collateral Calculation Workpaper MNSC-DCC-2.1b (SUPP2) Attach 1
- Exhibit C, Consumers Collateral Calculation Workpaper MNSC-DCC-2.1b (SUPP2) Attach 2
- Exhibit D, Corrected Rebuttal Testimony of Shana Ramirez on behalf of Data Center Coalition
- Exhibit E, Corrected Rebuttal Testimony of Shana Ramirez on behalf of Data Center Coalition (Redline Version)
- Proof of Service

Thank you for your consideration.

Sincerely,

/s/ Nikhil Vijaykar
Nikhil Vijaykar
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San Francisco, CA 94104
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Counsel to Data Center Coalition

CC: Parties to Case No. U-21859

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of)
Consumers Energy Company for *Ex Parte*) Case No. U-21859
Approval of Certain Amendments to Rate)
GPD)

**THE DATA CENTER COALITION'S
MOTION FOR LEAVE TO SUBMIT CORRECTED REBUTTAL TESTIMONY
*INSTANTER***

Pursuant to Rule 432 of the Michigan Public Service Commission's Rules of Practice and Procedure, Mich. Admin. Code R. 792.10432, the Data Center Coalition (DCC) moves for leave to submit the corrected rebuttal testimony of DCC witness Shana Ramirez *instanter*, and for the opportunity to seek admission of the corrected testimony during the hearing scheduled in this proceeding on August 8, 2025. In support of this Motion, DCC states as follows:

1. On July 9, 2025, in response to a discovery request from the Michigan Environmental Council, Natural Resources Defense Council, Sierra Club and Citizens Utility Board (MNSC) (MNSC-DCC 2.1b), DCC produced a workpaper in support of the rebuttal testimony of witness Ramirez (DCC supplemental response to MNSC-DCC 2.1b). That workpaper was developed to support an illustrative example of the cash flow associated with two different scenarios with respect to the collateral required from large load customers. That illustrative example is provided in Table 3 presented on page 24 of witness Ramirez's rebuttal testimony.
2. Following the evidentiary hearing held on August 1, 2025, it came to DCC's attention that DCC had inadvertently supplied an outdated version of the workpaper supporting the illustrative example provided in Table 3 of witness Ramirez's rebuttal testimony (as

- a part of DCC's supplemental response to MNSC-DCC 2.1b). Further, it came to DCC's attention that the updated workpaper to witness Ramirez's rebuttal testimony includes two technical errors, resulting in corresponding errors in Table 3 of Ms. Ramirez's rebuttal testimony. The first error in the updated workpaper is that it reflects an 85% minimum demand charge, rather than an 80% minimum demand charge. The second error in the updated workpaper appears in the formula for the net present value of the cash flow associated with each collateral scenario. Correcting those errors results in changes to the values presented in Table 3 of Ms. Ramirez's rebuttal testimony.
3. DCC informed the parties of the issues described in ¶ 2 of this Motion via e-mail on the evening of Sunday, August 3, 2025 immediately after identifying those issues. DCC then worked diligently to supplement its response to MNSC-DCC 2.1b later the same day.¹ As an attachment to that supplemental response, DCC produced the updated workpaper to witness Ramirez's rebuttal testimony.² DCC also made corrections to the workpaper to address the errors described in ¶ 2 of this Motion above, and provided the corrected workpaper as a second attachment to its supplemental response.³ Finally, in the interest of clarity, in the text of its supplemental response, DCC provided a corrected version of Table 3 in witness Ramirez's rebuttal testimony.⁴ DCC also stated, in the supplemental response, that it would seek leave to file a corrected version of witness Ramirez's rebuttal testimony to reflected a corrected Table 3.
 4. Consistent with the ethical obligations in Rule 3.3 of the Michigan Rules of Professional Conduct, and in order to ensure the record reflects a corrected version of

¹ Exhibit A, U-21859 DCC Second Supplemental Response to MNSC's Second Set of Discovery.

² Exhibit B, Consumers Collateral Calculation Workpaper MNSC-DCC-2.1b (SUPP2) Attach 1.

³ Exhibit C, Consumers Collateral Calculation Workpaper MNSC-DCC-2.1b (SUPP2) Attach 2.

⁴ Exhibit A, U-21859 DCC Second Supplemental Response to MNSC's Second Set of Discovery.

Table 3 in witness Ramirez’s rebuttal testimony, DCC seeks leave to file a corrected version of that testimony *instanter*. DCC attaches to this motion clean and redline versions of the corrected testimony.⁵ The only changes in the corrected testimony are to Table 3 on page 24 of the testimony.

5. Further, to the extent DCC is granted leave to file the corrected rebuttal testimony of witness Ramirez, DCC requests the opportunity to seek admission of the corrected testimony at the hearing scheduled in this proceeding on August 8, 2025.
6. DCC acknowledges the timing of this request as well as its supplemental response to MNSC-DCC 2.1b inconveniences the parties, but nevertheless believes it has an ethical obligation to inform the Commission of the error identified in Table 3 in the pre-filed rebuttal testimony of witness Ramirez and seek to correct that error.

WHEREFORE, for the reasons described above, DCC seeks leave to submit the corrected rebuttal testimony of witness Shana Ramirez *instanter* and an opportunity to seek admission of the corrected testimony during the hearing scheduled in this proceeding on August 8, 2025.

Dated: August 4, 2025

DATA CENTER COALITION

By: /s/ Nikhil Vijaykar
Nikhil Vijaykar
One of Its Attorneys

Nikhil Vijaykar
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⁵ Exhibit D, Corrected Rebuttal Testimony of Shana Ramirez on behalf of Data Center Coalition, and Exhibit E, Corrected Rebuttal Testimony of Shana Ramirez on behalf of Data Center Coalition (Redline Version).



Via Electronic Case Filing

August 3, 2025

Christopher M. Bzdok
420 E. Front St.
Traverse City, MI 49686
Attorney for MNSC

RE: Case No. U-21859

To Christopher M. Bzdok:

Please find attached the following:

Data Center Coalition's Second Supplemental Response to Michigan Environmental Council, Natural Resources Defense Council, Sierra Club, and Citizens Utility Board of Michigan's Second Discovery Requests
Attach 1 and 2 to MNSC-DCC 2.1b
Proof of Service

Thank you for your consideration.

Sincerely,

/s/ Nikhil Vijaykar

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Counsel to Data Center Coalition

CC: Parties to Case No. U-21859

MPSC Case No.: U-21859

Requester: MNSC

Question No.: MNSC-DCC-2.1(SUPP2)

Respondent: Justin Bieber and Shana Ramirez

Page: 1 of 1

QUESTION: For any rebuttal testimony and exhibits filed by Data Center Coalition (DCC) that responds to MNSC testimony and exhibits filed in this proceeding, please produce, on the day rebuttal is filed:

- a. Electronic versions of all exhibits used in support of the rebuttal testimony in original format with all links and formulae intact;
- b. The supporting workpapers of each witness used in support of preparing their rebuttal testimony and exhibits in original format with all links and formulae intact;
- c. All documents cited, referenced, or relied on by each rebuttal witness to develop or support their rebuttal testimony or exhibits; and
- d. All analyses, evaluations, projections, documents, and calculations – including any drafts – that were not sponsored as exhibits but were considered or relied upon by the witness in developing their rebuttal testimony or exhibits.

OBJECTION OF COUNSEL:

DCC objects to this request to the extent that it seeks materials that are publicly available.

DCC further objects to this request to the extent it seeks any privileged materials.

Subject to and without waiving these objections, DCC will comply.

SUPPLEMENTAL RESPONSE:

- a. The only exhibit to DCC's rebuttal testimony in Exhibit DCC-4 (JB-4). An electronic version of that exhibit was served on all parties.
- b. Please see attached workpaper of witness Ramirez, "Consumers Collateral Calculation Workpaper.xlsx" (MNSC-DCC-2.1b.(SUPP) Attach 1). DCC witness Bieber has no workpapers to his rebuttal testimony.
- c. All documents referenced or relied upon by DCC witnesses are cited within their respective rebuttal testimonies and are publicly available.

DCC witnesses considered the direct testimonies filed by other parties to this proceeding in developing their respective rebuttal testimonies. Those testimonies are publicly available. There are no documents responsive to this request.

SUPPLEMENTAL RESPONSE:

- b. Please see attached updated workpaper of witness Ramirez, “Consumers Collateral Calculation Workpaper.xlsx” (MNSC-DCC-2.1b.(SUPP2) Attach 1). The previous (supplemental) response to this discovery request inadvertently attached an outdated version of witness Ramirez’s workpaper.

Please also see attached a **corrected** workpaper of witness Ramirez, “Consumers Collateral Calculation Workpaper CORRECTED.xlsx” (MNSC-DCC-2.1b.(SUPP2) Attach 2).

The corrected workpaper (Attach 2) makes two changes to the calculation in the updated workpaper (Attach 1). First, it revises the input assumptions to reflect an 80% rather than an 85% minimum demand charge. Second, it corrects the net present value calculation. Those corrections result in minor changes to the values in Table 3 in witness Ramirez’s testimony, which is an illustrative example of the cash flow associated with a 15 year collateral requirement (with 15 year recovery) and a 2 year collateral requirement (with a 10 year recovery).

Based on the corrected workpaper, Table 3 in witness Ramirez’s testimony should be revised to reflect the corrected Table below.

DCC intends to seek leave to file a corrected version of witness Ramirez’s rebuttal testimony to reflect the below correction to Table 3.

Table 3: Collateral Cash Flow Illustrative Example

Period (Year)	Cash Flow (\$M)		
	15-Yr Collateral & 15-Yr Recovery	2-Yr Collateral & 10-Yr Recovery	
0	\$ (359)	\$ (48)	<i>Upfront Collateral</i>
1	\$ 23.9	\$ 0	<i>Credit</i>
2	\$ 23.9	\$ 0	<i>Credit</i>
3	\$ 23.9	\$ 0	<i>Credit</i>
4	\$ 23.9	\$ 0	<i>Credit</i>
5	\$ 23.9	\$ 4.8	<i>Credit</i>
6	\$ 23.9	\$ 4.8	<i>Credit</i>
7	\$ 23.9	\$ 4.8	<i>Credit</i>
8	\$ 23.9	\$ 4.8	<i>Credit</i>
9	\$ 23.9	\$ 4.8	<i>Credit</i>
10	\$ 23.9	\$ 4.8	<i>Credit</i>
11	\$ 23.9	\$ 4.8	<i>Credit</i>
12	\$ 23.9	\$ 4.8	<i>Credit</i>
13	\$ 23.9	\$ 4.8	<i>Credit</i>
14	\$ 23.9	\$ 4.8	<i>Credit</i>
15	\$ 23.9	N/A	<i>Credit</i>
	\$ (152)	\$ (24)	<i>Approximate NPV</i>

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of)	
Consumers Energy Company for <i>Ex Parte</i>)	Case No. U-21859
Approval of Certain Amendments to Rate)	
GPD)	

PROOF OF SERVICE

On August 3, 2025, an electronic copy of the Data Center Coalition's Second Supplemental Response to Michigan Environmental Council, Natural Resources Defense Council, Sierra Club, and Citizens Utility Board of Michigan's Second Discovery Requests was served on the following via email:

Name/Party	Email Address
ABATE Michael J. Pattwell Stephen A. Campbell Jessica York James R. Dauphinais	mpattwell@clarkhill.com scampbell@clarkhill.com jyork@consultbai.com jdauphinais@consultbai.com
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Data Center Coalition Michael G. Oliva Nikhil Vijaykar	moliva@fosterswift.com nvijaykar@keyesfox.com
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The statements above are true to the best of my knowledge, information and belief.

/s/ Nikhil Vijaykar
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Dated: August 3, 2025

Consumers Collateral Calculation Workpaper MNSC-DCC-2.1b.(SUPP2) Attach 1.xlsx

Year	15 Yr	2 Yr	
0	(381,582,000)	(50,877,600)	<i>Upfront Collateral</i>
1	25,438,800		0 <i>Credit</i>
2	25,438,800		0 <i>Credit</i>
3	25,438,800		0 <i>Credit</i>
4	25,438,800		0 <i>Credit</i>
5	25,438,800	5,087,760	<i>Credit</i>
6	25,438,800	5,087,760	<i>Credit</i>
7	25,438,800	5,087,760	<i>Credit</i>
8	25,438,800	5,087,760	<i>Credit</i>
9	25,438,800	5,087,760	<i>Credit</i>
10	25,438,800	5,087,760	<i>Credit</i>
11	25,438,800	5,087,760	<i>Credit</i>
12	25,438,800	5,087,760	<i>Credit</i>
13	25,438,800	5,087,760	<i>Credit</i>
14	25,438,800	5,087,760	<i>Credit</i>
15	25,438,800		N/A <i>Credit</i>
NPV	(150,051,516)	(23,618,635)	
WACC	7.85%		

Consumers Proposed Minimum Billing Demand Example

Generation On Peak Demand	
On-Pk Billing Demand June-Sept (\$/kW-Mo)	17.15
On-Pk Billing Demand Oct-May (\$/kW-Mo)	14.95
<i>Weighted Average (\$/kW-Mo)</i>	15.68
Transmission Demand	
On-Pk Billing Demand June-Sept (\$/kW-Mo)	8.63
On-Pk Billing Demand Oct-May (\$/kW-Mo)	8.04
<i>Weighted Average (\$/kW-Mo)</i>	8.24
Distribution Max Demand	
Maximum Demand (\$/kW-Mo)	1.02
Total Demand Rate (\$/kW-Mo)	24.94
Contract Capacity (MW)	100
Minimum Billing Demand %	85%
Annual Minimum Demand Revenue (\$)	25,438,800
Minimum Contract Term (Years)	15
GPD Rate Annual Escalation ¹	2.7%
Minimum Demand Revenues Over Contract	462,538,753

¹ Rate GPD annual escalation based on actual Rate GPD 1 escalation between 2018 to 2025.

1	25,438,800
2	26,123,191
3	26,825,994
4	27,547,705
5	28,288,833
6	29,049,900
7	29,831,441
8	30,634,009
9	31,458,169
10	32,304,502
11	33,173,603
12	34,066,087
13	34,982,581
14	35,923,733
15	36,890,204

Michigan Public Service Commission		Schedule F-3		Case No: U-21870	
Consumer Energy Complaint		Schedule F-3		Exhibit No: A-18 (LMC-3)	
Present and Proposed Revenue Detail		Present		Proposed	
Primary Demand Voltage Level 1 (GPD VLS 1)		Rate		Rate	
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		\$/kWh		\$/kWh	
		Revenue		Revenue	
		\$/Month		\$/Month	
		Revenue		Revenue	
		\$/kWh		\$/kWh	
		Revenue		Revenue	
		\$/Month		\$/Month	
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		Revenue		Revenue	
		\$/Month		\$/Month	
		Revenue		Revenue	
		\$/kWh		\$/kWh	
		Revenue		Revenue	
		\$/Month</			

Corrected Table 3 - 80% minimum bill			
Year	15 Yr	2 Yr	
0	(359,136,000)	(47,884,800)	<i>Upfront Collateral</i>
1	23,942,400	0	<i>Credit</i>
2	23,942,400	0	<i>Credit</i>
3	23,942,400	0	<i>Credit</i>
4	23,942,400	0	<i>Credit</i>
5	23,942,400	4,788,480	<i>Credit</i>
6	23,942,400	4,788,480	<i>Credit</i>
7	23,942,400	4,788,480	<i>Credit</i>
8	23,942,400	4,788,480	<i>Credit</i>
9	23,942,400	4,788,480	<i>Credit</i>
10	23,942,400	4,788,480	<i>Credit</i>
11	23,942,400	4,788,480	<i>Credit</i>
12	23,942,400	4,788,480	<i>Credit</i>
13	23,942,400	4,788,480	<i>Credit</i>
14	23,942,400	4,788,480	<i>Credit</i>
15	23,942,400	N/A	<i>Credit</i>
NPV	(152,311,115)	(23,974,304)	
WACC	7.85%		

Consumers Proposed Minimum Billing Demand Example

Generation On Peak Demand	
On-Pk Billing Demand June-Sept (\$/kW-Mo)	17.15
On-Pk Billing Demand Oct-May (\$/kW-Mo)	14.95
<i>Weighted Average (\$/kW-Mo)</i>	15.68
Transmission Demand	
On-Pk Billing Demand June-Sept (\$/kW-Mo)	8.63
On-Pk Billing Demand Oct-May (\$/kW-Mo)	8.04
<i>Weighted Average (\$/kW-Mo)</i>	8.24
Distribution Max Demand	
Maximum Demand (\$/kW-Mo)	1.02
Total Demand Rate (\$/kW-Mo)	24.94
Contract Capacity (MW)	100
Minimum Billing Demand %	80%
Annual Minimum Demand Revenue (\$)	23,942,400
Minimum Contract Term (Years)	15
GPD Rate Annual Escalation ¹	2.7%
Minimum Demand Revenues Over Contract	435,330,591

¹ Rate GPD annual escalation based on actual Rate GPD 1 escalation between 2018 to 2025.

1	23,942,400
2	24,586,533
3	25,247,995
4	25,927,252
5	26,624,784
6	27,341,082
7	28,076,651
8	28,832,009
9	29,607,689
10	30,404,237
11	31,222,215
12	32,062,200
13	32,924,783
14	33,810,572
15	34,720,192

Schedule F-3

MICHIGAN PUBLIC SERVICE COMMISSION
Consumer Energy Company
Present and Proposed Revenue Detail
Primary Demand Voltage Level 1 (GPD VS. L)

Case No: U-21870
Exhibit No: A-18 (LMS-3)
Schedule: F-3
Page: 11 of 33
Witness: LMC/Chris
Date: June 2025

Line No.	Description	Billing Determinants		Present		Proposed		Net Increase / Decrease	
		Quantity	Units	Rate	Revenue	Rate	Revenue		
FGS SERVICE									
Production									
On-peak Demand									
1	On-peak kW	862	MW	@	18.98	9,322	12.04	\$ 7,869	\$ (1,192)
2	On-peak kWh	85,515	MWh	@	0.002727	2,624	0.004641	2,476	(178)
3	Off-peak kWh	293,687	MWh	@	0.027862	8,130	0.026258	7,741	(389)
4	Capacity On-peak kW	862	MW	@	2.17	1,864	4.57	3,929	1,395
Winter Peak Demand									
Non-capacity									
5	On-peak kW	1,358	MW	@	12.94	17,561	10.40	14,121	(18,490)
6	On-peak kWh	177,318	MWh	@	0.025445	5,183	0.024846	4,532	(651)
7	Off-peak kWh	602,128	MWh	@	0.021558	13,079	0.021215	23,262	(12,768)
8	Capacity On-peak kW	1,358	MW	@	2.01	2,728	4.24	5,761	3,033
Provisions									
9	Economic Development GSD	-	MW	@	-	-	-	-	-
10	Interruptible GSD	60	MW	@	(8.50)	(510)	(8.50)	(510)	-
11	Winter Contracted kW	110	MW	@	(7.58)	(834)	(7.58)	(834)	-
12	Interruptible GSD	-	MWh	@	0.029572	-	0.030567	-	-
13	Winter Capacity & Transmission	-	MWh	@	0.029513	-	0.027726	-	-
14	GAO	-	MWh	@	-	-	-	-	-
15	Collocated Peak Provision	-	MWh	-	-	0.029002	-	-	-
16	Summer Transmission	-	MWh	-	-	0.018007	-	-	-
17	Winter Capacity	-	MWh	-	-	0.025524	-	-	-
18	Winter Transmission	-	MWh	-	-	0.014879	-	-	-
19	Critical Peak Event	-	MWh	-	-	5.80	-	-	-
20	Power Factor Adjustment	-	-	-	-	(131)	-	(131)	\$
21	Annual PFC Factor	1,158,158	MWh	@	0.000410	10,898	0.000410	10,898	-
22	Total Production	-	-	-	-	\$ 70,580	-	\$ 69,500	\$ (1,763)
Transmission									
Summer On-peak Demand									
23	On-peak kW	862	MW	@	8.63	5,716	9.17	6,070	\$ 354
24	On-peak kWh	1,188	MWh	@	6.64	10,554	8.51	11,530	\$ 676
25	Total Transmission	-	-	-	-	\$ 16,830	-	\$ 17,600	\$ 1,000
Delivery									
26	System Access	287	Bills	@	200.00	\$ 53	200.00	\$ 53	-
27	Maximum kW	2,507	MW	@	1.62	2,551	2.51	6,247	\$ 3,796
28	Substation Ownership	42	MW	@	(0.68)	(28)	(1.83)	(76)	\$ (48)
29	Distribution	1,158,158	MWh	@	-	-	-	(31)	\$ (8)
30	Power Factor Adjustment	-	-	-	-	(3)	-	(3)	\$ (8)
Provisions									
31	Evaluation GSD	-	MWh	@	(0.000194)	-	(0.000001)	-	-
32	Total Delivery	-	-	-	-	\$ 2,871	-	\$ 6,212	\$ 3,740
33	Total Full & RGA Service	-	-	-	-	\$ 92,284	-	\$ 93,272	\$ 988
ROA SERVICE									
Delivery									
34	System Access	389	Bills	@	200.00	\$ 94	200.00	\$ 94	-
35	Maximum kW	2,403	MW	@	1.62	2,448	2.51	6,283	\$ 3,838
36	Substation Ownership	126	MW	@	(0.68)	(50)	(1.83)	(158)	\$ (127)
37	Distribution	1,265,348	MWh	@	-	-	-	(31)	\$ (8)
38	Power Factor Adjustment	-	-	-	-	(6)	-	(6)	\$ (8)
Provisions									
39	Evaluation GSD	2,465	MWh	@	(0.000194)	12	(0.000001)	12	\$ (3)
40	Total Delivery	-	-	-	-	\$ 2,461	-	\$ 5,744	\$ 4,802
41	Total Full & RGA Service	-	-	-	-	\$ 94,624	-	\$ 99,016	\$ 4,390

U-20134
Total Full Service \$000 217,253
Total Full Service MWh 3,283,329
Avg \$/kWh 0.0661685

U-21870
Total Full Service \$000 92,284
Total Full Service MWh 1,158,158
Avg \$/kWh 0.0796817

CAGR 2.69%

Schedule F-3

MICHIGAN PUBLIC SERVICE COMMISSION
Consumer Energy Company
Present and Proposed Revenue Detail
Primary Demand GPD (Voltage Level 1)

Case No: U-20134
Exhibit No: A-20 (LMS-3)
Schedule: F-3
Page: 18 of 20
Witness: LMC/Chris
Date: May 2018

Line No.	Description	Billing Determinants		Units	Present		Proposed	
		Quantity	Quantity		Rate	Revenue	Rate	Revenue
Bundled Service								
Power Supply								
Summer Service (Sept)								
Non Capacity								
1	On-peak kWh	1,714	1,204	MWh	7.86	13,480	7.78	9,824
2	On-peak kWh	284,074	263,741	MWh	0.046185	13,121	0.031439	8,262
3	On-peak kWh	947,402	882,337	MWh	0.030316	28,721	0.020376	17,779
4	Capacity	1,714	1,204	MW	10.82	18,828	14.86	16,771
5	On-Peak Transmission	1,714	1,204	MW	1.88	3,187	6.55	8,272
Provisions								
6	Interruptible GSD	669	450	MW	(7.00)	(6,205)	(7.00)	(3,147)
7	Inter GSD Cap & Trans	-	85,360	MWh	-	-	0.020314	2,811
8	Inter GSD LMP	-	85,368	MWh	-	-	0.032270	2,798
9	Evaluation GSD	-	-	-	-	-	-	-
Total Summer Power Supply								
10	Winter (Oct - May)	-	-	-	-	70,232	-	65,973
Non Capacity								
11	On-peak kWh	3,476	3,032	MWh	7.88	27,224	6.78	20,622
12	On-peak kWh	541,262	500,639	MWh	0.020213	10,924	0.020564	12,548
13	On-peak kWh	1,766,143	1,636,612	MWh	0.022217	39,019	0.022477	36,786
14	Capacity	3,476	3,032	MW	9.12	33,084	13.85	41,988
15	On-Peak Transmission	3,476	3,032	MW	1.88	6,468	6.55	19,857
Provisions								
16	Interruptible GSD	889	448	MW	(6.00)	(5,335)	(5.00)	(2,868)
17	Inter GSD Cap & Trans	-	172,797	MWh	-	-	0.020316	5,633
18	Inter GSD LMP	-	172,797	MWh	-	-	0.031100	5,312
19	Evaluation GSD	25,715	25,715	MWh	-	-	-	-
Total Winter Power Supply								
20	Annual PFC Factor kWh	3,539,524	3,263,329	MWh	0.000000	2,832	0.000000	2,627
21	Annual Power Factor Adjustment	-	-	-	-	(552)	-	(552)
22	Total Power Supply	-	-	-	-	\$ 210,200	-	\$ 207,328
Delivery								
24	Maximum kWh	7,200	7,200	MW	1.06	7,728	0.88	7,121
25	Substation Ownership	611	611	MW	(0.19064)	(232)	(0.1945)	(281)
26	Joint Substation Ownership	3,388	3,388	MW	(0.20)	(683)	(0.31)	(1,063)
27	System Access	407	407	Bills	200.00	81	200.00	81
28	Provisions	-	-	-	-	-	-	-
29	Evaluation GSD	44,170	44,170	MWh	(0.000206)	(13)	(0.000314)	(14)
30	Annual Power Factor Adjustment	-	-	-	-	(19)	-	(19)
31	Total Delivery	-	-	-	-	\$ 6,953	-	\$ 5,819
ROA Service								
Delivery								
32	Maximum kWh	2,073	2,073	MW	1.06	2,198	0.98	2,205
33	Substation Ownership	274	274	MW	(0.30)	(84)	(0.48)	(128)
34	System Access	178	178	Bills	200.00	36	200.00	36
35	Provisions	-	-	-	-	-	-	-
36	Evaluation GSD	2,838	2,838	MWh	(0.000206)	(1)	(0.000314)	(1)
37	Total Delivery	-	-	-	-	\$ 2,129	-	\$ 1,934
38	Total Primary GPD (Voltage Level 1)	-	-	-	-	\$ 279,262	-	\$ 279,262

Notes

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of)
Consumers Energy Company for *Ex Parte*)
Approval of Certain Amendments to Rate)
GPD)

Case No. U-21859

CORRECTED

REBUTTAL TESTIMONY OF

SHANA RAMIREZ

ON BEHALF OF

THE DATA CENTER COALITION

JULY 9, 2025

1 **Q. STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.**

2 A. My name is Shana Ramirez, and I am a Director at Energy and Environmental Economics
3 also known as E3. My business address is 44 Montgomery Street, Suite 1500, San
4 Francisco, CA 940104.

5 **Q. On whose behalf are you filing testimony?**

6 A. I am filing testimony on behalf of the Data Center Coalition (“DCC”).

7 **Q. Describe your professional background and experience.**

8 A. I bring over a decade of experience in the energy industry, with a focus on regulatory policy,
9 load forecasting, rate design, and renewable energy development. Prior to joining E3, I
10 held several positions at NV Energy, including in the Rates, Load Forecasting, and
11 Regulatory Affairs departments. Most recently, I served as Program Development Director
12 in the Renewables Department.

13 In that role, I led a team responsible for advancing innovative power supply
14 solutions and tariff designs for large-load customers, including data centers and other
15 energy-intensive users. This work required close coordination with internal regulatory,
16 legal, and resource planning teams, as well as extensive engagement with external
17 stakeholders such as customers, developers, and regulatory staff.

18 A key outcome of this work was the design and successful regulatory approval of
19 the Clean Transition Tariff by the Public Utilities Commission of Nevada. This tariff
20 enables large-load customers to procure renewable energy resources to meet their
21 operational needs while aligning customer preferences with state policy objectives. The
22 role also involved negotiating and structuring contracts that included thorough assessments
23 of financial security requirements and risk mitigation provisions.

1 Earlier in my career, I worked in the insurance sector where I performed actuarial
2 analysis focused on risk assessment and modeling. These skills continue to inform my
3 approach to evaluating utility programs and contract structures.

4 **Q. PLEASE DESCRIBE E3.**

5 A. E3 is an economic consulting firm with more than 30 years of experience specializing in
6 the North American power sector. The firm provides data-driven insights and objective
7 recommendations to a diverse range of clients, including utilities, regulatory agencies,
8 government entities, project developers, investors, and non-profit organizations.

9 Through its work across all segments of the energy industry, E3 offers a
10 comprehensive understanding of energy markets, resource planning, public policy,
11 regulation, and environmental considerations. The firm is committed to producing clear
12 and impartial analyses. That is why my recommendations are fair and balanced, addressing
13 the needs of both the utility and large-load customers.

14 **Q. Have you previously testified before this Commission?**

15 A. I have not.

16 **Q. What topics are you addressing in your testimony?**

17 A. My testimony addresses financial security requirements for large load customers, including
18 data centers. I review all parties' proposals, outline best practices for credit and collateral
19 frameworks, and recommend a holistic risk-appropriate financial security approach to the
20 Commission. The objective is to protect ratepayers while enabling equitable and scalable
21 integration of large loads into Consumers' system.

22 I also address the proposed clean energy and renewable resource requirements for
23 data centers. I evaluate all proposals, state my position, and recommend a flexible approach

1 that supports clean energy options in the context of Michigan's statutes and policies for
2 large load customers including data centers in a non-discriminatory way.

3 **Q. How is your testimony structured?**

4 A. My testimony is organized in two parts:

5 **i) Part I: Financial Security**

6 Section I: Overview of financial security and large loads

7 Section II: Summary of financial security proposals by party

8 Section III: Best practices for financial security

9 Section IV: Recommendation to the Commission

10 **ii) Part II: Clean Energy**

11 Section I: Summary of clean energy proposals by party

12 Section II: Recommendation to the Commission

13 **Part I: Financial Security**

14 **Section I: Overview of financial security and large loads**

15 **Q. What is financial security?**

16 A. Financial security refers to assets, credit instruments, collateral, or contractual assurances
17 provided by large-load customers to the utility. It serves to mitigate the risk of non-payment
18 or stranded assets, helping ensure that the cost of service is recovered and not shifted to
19 other ratepayers.

20 **Q. What risks do large loads, including data centers, pose to utilities and other
21 ratepayers?**

22 A. Large loads, such as data centers, pose several potential risks related to system reliability,
23 cost impacts, and regulatory compliance. Rapid and substantial load growth can strain

1 existing generation resources and create congestion on transmission and distribution
2 networks. These pressures not only challenge the short-term reliability of the system but
3 also complicate long-term resource and infrastructure planning.

4 From a financial standpoint, utilities may need to undertake significant capital
5 investments in infrastructure upgrades, including new substations, transmission lines, and
6 distribution enhancements, to accommodate such loads. Should the customer reduce
7 operations unexpectedly or exit the service territory, these investments may become
8 stranded assets. In such cases, the financial burden could shift to other ratepayers,
9 especially if adequate financial security protections are not in place to mitigate the impact.
10 The risk of non-payment or partial recovery of infrastructure costs also poses a liability for
11 the utility and its broader customer base.

12 The accelerated growth in electricity demand associated with large load customers
13 may challenge the utility's ability to procure or develop sufficient clean energy resources,
14 implicating statutory or regulatory clean energy and emission reductions targets along with
15 the utility's own voluntary objectives.

16 **Q. What are the potential benefits of large load customers taking service in Consumers**
17 **Energy's territory?**

18 A. Large load customers, including data centers, manufacturing facilities, and emerging
19 industries, provide substantial economic, operational, and strategic benefits to the utility
20 and the broader community. Economically, they contribute to job creation, attract private
21 investment, expand the tax base, and stimulate regional economic development. From a
22 system reliability perspective, their presence may support and even accelerate necessary

1 utility investments in aging infrastructure, ultimately enhancing service quality for all
2 customers.

3 Multi-year service commitments from large load customers enhance the utilization
4 of both existing and new generation and transmission assets. These customers also
5 contribute stable, long-term demand, which supports more efficient resource planning and
6 system modernization efforts.

7 Financially, large loads can increase and stabilize utility revenues by expanding
8 overall system usage. A higher total sales volume allows the utility to distribute fixed
9 system costs across more kilowatt-hours, which may help reduce costs for other ratepayers.

10 From a policy and compliance standpoint, many large load customers are actively
11 pursuing ambitious sustainability objectives. This creates opportunities for meaningful
12 collaboration on clean energy procurement, energy efficiency initiatives, and innovative
13 grid solutions. Furthermore, large, consistent loads may catalyze the deployment of
14 emerging technologies, such as advanced geothermal or nuclear power, hydrogen-based
15 fuels, and grid-scale energy storage as well as supporting a variety of grid-enhancing
16 technologies. By serving as anchor customers or project sponsors, these entities can help
17 advance alternative pathways to achieving the utility's clean energy and decarbonization
18 goals especially if they are willing to take on more risk such as supporting first-of-a-kind
19 technologies that is not appropriate for a utility to bear but could provide future benefits
20 when those technologies are potentially de-risked.

21 **Q. Do you support requiring financial security from large load customers?**

22 A. I support requiring financial security from large load customers as a means of protecting
23 utilities and their ratepayers from potential financial risks, including stranded assets,

1 project delays, and customer default. Large load projects often require substantial
2 infrastructure investment. If such projects are canceled, delayed, or significantly reduced,
3 the resulting sunk costs may ultimately be shifted to other ratepayers. Financial assurances
4 such as collateral, guarantees, or prepayments work in tandem with others rate payer
5 protections such as capacity reduction penalties and exit fees. These mechanisms
6 collectively ensure that customers assume appropriate responsibility for the risks they
7 introduce and that the utility can recover its costs.

8 **Q. At a high level, how should the utility approach the design of financial security**
9 **requirements for large load customers?**

10 A. Financial security requirements should be proportionate to the specific risks associated
11 with each project. Many large load customers are backed by financially stable sponsors and
12 supported by long-term commercial commitments. A rigid and uniform approach may
13 unintentionally deter low-risk, high-value projects. A more effective strategy involves
14 structuring requirements to evolve over time, beginning with a collateral ramp reflective
15 of utility investments, full collateral held during any ramp period and the reduction of
16 collateral once at full contracted capacity as the risk to both the utility and rate payers
17 diminishes over the contract term. This staged approach appropriately reflects the risk
18 profile from the utility's perspective.

19 Offering a range of credit tools, such as milestone-based collateral structures, surety
20 bonds, guarantees, or upfront financial contributions, can provide necessary flexibility
21 while maintaining financial discipline. Tailoring credit requirements to a project and
22 customer-specific risk enhances transparency, reduces unnecessary capital constraints, and
23 supports responsible growth. The goal is to strike a balance between protecting ratepayers

1 and enabling scalable, long-term development that delivers benefits to both the utility and
2 the broader community.

3 In addition, flexibility in financial security frameworks can improve how customers
4 perceive investment risk in the utility's service territory. While stricter requirements may
5 appear to reduce risk, excessive collateral obligations can, in practice, deter investment.
6 When combined with uncertain project timelines, these obligations can significantly
7 increase carrying costs for customers. This may lead to otherwise viable projects being
8 abandoned or removed from interconnection queues, which in turn increases the risk of
9 stranded assets and undermines the very protections the financial requirements aim to
10 ensure.

11 **Q. Should financial security requirements apply only to data centers?**

12 A. No. Limiting financial security requirements to data centers while exempting other large
13 load customers is both inequitable and unjustified. All large loads, whether from new or
14 existing customers, including manufacturing facilities and other high-demand users, can
15 pose similar financial and operational risks to utilities. These risks include project
16 cancellations, delays, underperformance, or abrupt departures, any of which can result in
17 stranded costs or unrecovered infrastructure investments.

18 Imposing stricter financial requirements solely on data centers unfairly targets a
19 sector that often includes financially stable entities with strong institutional backing,
20 consistent high load factors, and long-term service commitments. At the same time, other
21 large customers with comparable or even greater risk profiles may not be held to the same
22 standards.

1 It is also important to evaluate the risk characteristics of individual data centers
2 rather than generalizing across the entire industry. The data center sector is diverse,
3 encompassing a range of business models such as hyperscalers, colocation providers, and
4 enterprise-owned facilities. It also includes widely varying financial and ownership
5 structures. For this reason, a uniform approach to financial security is not appropriate.
6 Instead, policies should be structured based on measurable risk factors and applied
7 consistently across all large load customers, regardless of industry classification.

8 A risk-based framework should consider project maturity, customer financial
9 strength, and the scale of potential exposure. Applying consistent criteria in this way
10 promotes fairness, protects ratepayers, and upholds transparency and nondiscriminatory
11 utility practices. This also ensures that the financial security practices determined today
12 can apply to the next innovative type of large load customers.

13 **Section II: Financial security proposals by party**

14 **Q. Provide an overview of each party's views on Consumers Energy's financial security**
15 **proposal and any recommended changes.**

16 A. Table 1 summarizes the recommendations and positions of all parties regarding Consumers
17 Energy's financial security proposal.

1

Table 1: Parties Positions on Credit and Collateral

Party	Collateral Requirement	Creditworthiness Criteria
Consumers Energy (L. Connolly)¹	Up to 100% of projected cost to serve over 15-year contract term; additional financial security at discretion.	Exemptions for investment-grade credit and high liquidity, but not embedded in tariff.
MPSC Staff (D. Isakson)²	Acknowledges the need for financial security to protect other ratepayers from risks tied to large data centers. Supports clear tariff language enabling Consumers to require financial protections, including collateral.	Recommends formalizing the evaluation process and requiring Consumers to outline credit standards in the tariff to avoid arbitrary application and ensure transparency.
Attorney General (M. Deupree)³	Supports financial security; criticizes vagueness; seeks codified credit standards and oversight.	Wants formal tariff language defining credit standards; partial/full exemptions based on credit rating and liquidity.

2

3 **Q. What is your understanding of Consumers Energy's financial security proposal?**

4 A. Consumers Energy proposes the authority to require data center customers to provide
 5 collateral equal to up to 100 percent of the projected cost of service over a 15-year contract
 6 term if not deemed creditworthy. Customers with credit rating of A- from S&P and A3 from
 7 Moody's and liquidity greater than 10 times the collateral requirement will be exempt from
 8 collateral. Customers that do not possess that credit rating but have liquidity greater than
 9 10 times the collateral requirement would be exempt from 50% of the requirement not
 10 exceeding \$250 million. The proposal would also allow Consumers to impose additional
 11 financial security requirements at its discretion.

¹ Connolly Direct at 7 (collateral); Draft Data Center Contract at Jester Direct, Exhibit MEC-2 at 3; and Deupree Direct at 16 (discussing including specifics of collateral requirements as part of the tariff) (credit).

² Isakson Direct at 9-10 (collateral) and 11-12 (credit).

³ Deupree Direct at 17-18 (collateral) and 20-22 (credit).

1 **Q. What is your position on Consumers Energy's proposal?**

2 A. Consumers Energy's proposal to require up to 100 percent financial security is
3 disproportionate to the actual risk presented by most large load projects. When combined
4 with other safeguards such as exit fees, minimum billing demand provisions, and long-term
5 contracts, such a high collateral requirement creates an unnecessary barrier that could
6 discourage investment and delay beneficial projects.

7 Many of the customers anticipated to take service under the tariff at issue are likely
8 to have investment-grade credit and stable, long-term commitments. For these customers,
9 imposing blanket, high collateral requirements are not warranted. Instead, I support flexible
10 collateral structures that are calibrated to the specific risk profile of each customer. These
11 structures should operate within a clearly defined framework based on industry best
12 practices, which I discuss later in my testimony. This approach ensures both ratepayer
13 protection and the promotion of sustainable load growth.

14 **Q. Are you opposed to Consumers Energy's proposal to address financial security**
15 **through individual agreements with customers?**

16 A. No, I am not opposed. I view bilateral negotiations and a defined collateral framework as
17 complementary tools that serve the same overall purpose: protecting ratepayers while
18 enabling responsible load growth. Bilateral agreements provide the flexibility to tailor
19 solutions to the specific financial conditions of large load customers. At the same time, a
20 well-designed, standardized framework can offer consistency and transparency where
21 individual negotiations are not feasible. However, Consumers' proposal does not
22 appropriately balance risk management with the goal of encouraging long-term,
23 sustainable load growth. A rigid, high-collateral model may discourage projects that could

1 improve load factors, enhance fixed-cost recovery, and support grid investments. A
2 proportionate, risk-based framework is needed to safeguard ratepayers while enabling
3 growth that strengthens system performance and long-term affordability.

4 **Q. Provide more detail on Staff's financial security proposal.**

5 A. Staff proposes that the required collateral would equal the exit fee, defined as 80 percent
6 of the customer's contracted capacity multiplied by the number of months remaining in the
7 contract. This amount would decrease annually to reflect the utility's declining financial
8 exposure.

9 Customers could satisfy the requirement using approved instruments, including:

- 10 i) A parent or affiliate guarantee from an entity rated at least A- by S&P and A3 by
11 Moody's, with liquidity ten times the required collateral
12 ii) A standby irrevocable letter of credit from a qualifying U.S. or U.S.-branch bank
13 iii) Cash posted in full
14 iv) Unrated customers may qualify for a 50 percent exemption, capped at \$250 million, if
15 they provide quarterly financials and certify liquidity of ten times the required amount.

16 Staff's proposal rejects Consumers Energy's broader discretionary authority to require
17 collateral up to the full projected service cost.

18 **Q. What is your position on Staff's proposal?**

19 A. I do not support Staff's proposal. While its intent to protect ratepayers is sound, the
20 collateral structure is excessive and misaligned with practical risk management. Requiring
21 collateral equal to the full or half of the remaining exit fee imposes an unnecessary barrier
22 for customers, particularly those with strong financial backing and long-term
23 commitments.

1 A more appropriate approach would base collateral on a customer's monthly bill
2 over a defined period. This method better reflects actual exposure and allows exemptions
3 for creditworthy customers. The collateral should increase as the utility makes investments
4 on the customers behalf to the date of energization and then should also be reduced
5 annually following the ramp period, recognizing the declining risk to the utility and
6 ratepayers.

7 If the Commission includes credit requirements in the tariff, they should be based
8 on project-specific risk. The current proposal, even in its "compromise" form, still poses
9 an unreasonable financial barrier and does not align with principles of fairness, risk
10 calibration, or regulatory equity.

11 **Q. What is the Attorney General's financial security proposal?**

12 A. The Attorney General opposes granting the utility broad authority to impose collateral
13 equal to the full cost of service. Instead, the proposal calls for specific tariff language to
14 govern how collateral is calculated and to ensure that only customers posing significant
15 risk are required to provide financial security.

16 The Attorney General supports Consumers' exemptions for customers with
17 investment-grade credit ratings and sufficient liquidity, and allows a 50 percent exemption,
18 capped at \$250 million, for unrated customers that meet liquidity thresholds. These
19 standards must be clearly stated in the tariff.

20 **Q. What is your position on the Attorney General's proposal?**

21 A. I do not support the Attorney General's proposal because it is overly prescriptive and does
22 not provide adequate flexibility for Consumers Energy and large load customers to engage
23 in bilateral negotiations regarding financial security requirements. Bilateral agreements are

1 an important tool that allow financial security obligations to be tailored based on the unique
2 financial characteristics, risk profiles, and development stages of individual projects. This
3 flexibility is critical to supporting long-term, sustainable load growth while ensuring that
4 collateral requirements remain proportionate and do not create unnecessary barriers to
5 investment.

6 However, I also recognize the importance of establishing a consistent framework
7 that outlines guiding principles for determining financial security obligations. A well-
8 defined framework can enhance transparency, promote fairness, and provide a predictable
9 structure for both the utility and prospective customers. It helps ensure that ratepayers are
10 protected and that financial risk is managed appropriately.

11 Importantly, I do not view a consistent framework and the ability to negotiate
12 bilateral agreements as mutually exclusive. Rather, they can and should function together.
13 A standardized framework can serve as a foundational reference that sets expectations and
14 best practices, while still allowing for case-by-case adjustments through negotiation where
15 circumstances warrant a more customized approach. This dual-path structure ensures that
16 the utility is equipped to manage financial risk effectively while also encouraging economic
17 development and grid-enhancing projects.

18 **Section III: Financial security best practices**

19 **Q. Are there best practices for large load financial security?**

20 A. Yes. E3 has identified best practices for managing financial security for large load
21 customers, particularly where utilities face significant capital investment and risk of
22 stranded costs. These practices aim to ensure cost recovery, support responsible load
23 growth, and promote fair treatment of all customers.

1 A key principle is aligning financial security requirements with actual risk
2 exposure. This involves using a phased or milestone-based structure in which collateral
3 levels adjust based on the project's stage and the utility's financial commitment. Early-
4 stage projects, which carry higher risk, should provide greater upfront security that can be
5 reduced as the project advances through permitting, financing, construction, and operation.

6 Another best practice is offering a standardized set of acceptable collateral
7 instruments. Utilities should accept various forms of security, such as surety bonds;
8 guarantees from a parent, affiliate, tenant, or other entity with a financial interest in the
9 customer; sponsor support agreements; and contributions in aid of construction. This
10 flexibility accommodates different customer financial structures while maintaining utility
11 protection.

12 Avoiding redundancy is also important. Utilities should not impose overlapping
13 forms of security that address the same risk, such as combining contributions-in-aid-of-
14 construction ("CIAC"), exit fees, and demand guarantees without clear justification. Credit
15 frameworks should include evaluation tools, such as a credit efficiency index or
16 "scorecard", to assess the adequacy of existing protections and calibrate requirements
17 appropriately.

18 Transparency and consistency are essential. Utilities should define clear credit
19 evaluation criteria, including liquidity thresholds, credit ratings, and exemption standards.
20 Frameworks must also be scalable and adaptable to accommodate growing and evolving
21 large load interconnection requests.

1 Together, these practices provide a disciplined and balanced approach that protects
2 ratepayers, supports infrastructure investment, and ensures a fair and efficient
3 interconnection process.

4 **Q. Please provide more details on the milestone-based approach.**

5 A. A milestone-based approach to financial security ties the level and type of collateral to key
6 stages in the development of a large load project and the customer's lifecycle. Rather than
7 imposing a fixed collateral requirement, this approach adjusts financial security obligations
8 as the utility's exposure evolves over time.

9 Collateral requirements should begin when the utility starts making financial
10 commitments on behalf of the customer and increase as those investments grow. At the
11 customers' facility commercial operation date and throughout the load ramp period, full
12 collateral should be held to incentivize customers to meet their ramp targets and to mitigate
13 the risk of underutilized assets. Once the customer has fully ramped their load, collateral
14 should be gradually reduced to reflect the declining risk to the utility and ratepayers. This
15 reduction should continue month by month as the customer meets its contractual
16 obligations, aligning financial security with actual performance and risk.

17 The milestone-based framework offers a transparent, scalable, and disciplined way
18 to manage financial security. It balances ratepayer protection with flexibility for
19 responsible, creditworthy customers and aligns financial obligations with both project risk
20 and utility investment timing.

21 **Q. Please expand on the standardized menu of acceptable collateral instruments.**

22 A. A standardized menu of acceptable collateral instruments is essential to a transparent and
23 effective financial security framework for large load customers. It provides clarity and

1 consistency by listing approved financial tools that customers may use to meet collateral
2 obligations. This approach promotes fairness and allows customers to select instruments
3 that align with their financial structure, while ensuring the utility remains protected.

4 Common instruments include letters of credit, guarantees, surety bonds, and cash
5 deposits. Letters of credit must be issued by a U.S. bank or a U.S. branch of a foreign bank
6 with a minimum credit rating, typically BBB- or higher from S&P and a Baa3 or higher
7 from Moody's. These letters must meet requirements for term length and automatic
8 renewal. Parent or affiliate guarantees must come from entities with sufficient credit quality
9 and liquidity to support the obligation. Surety bonds, issued by qualified insurers, can be a
10 cost-effective option. Cash collateral, though less flexible, offers strong security and is
11 universally accepted.

12 Including these instruments, along with clear eligibility standards, ensures the
13 utility's financial exposure is adequately managed without imposing excessive burdens on
14 customers. The availability of multiple options supports a range of financial profiles and
15 simplifies compliance and enforcement. This structure helps maintain equitable treatment,
16 operational efficiency, and a balanced approach to risk management.

17 **Q. Should there be collateral exemptions?**

18 A. Yes. Collateral exemptions are appropriate because financial security requirements should
19 reflect the actual risk posed by each customer. Applying uniform collateral across all large
20 load customers can lead to overcollateralization and create unnecessary barriers,
21 particularly for financially stable and low-risk entities.

22 Exemptions should be based on objective criteria as discussed in the previous
23 answer. For example, a customer with an investment-grade rating and liquidity exceeding

1 ten times the required collateral should not be subject to the same obligations as a customer
2 with speculative credit and low liquidity. Customers without formal ratings but with strong
3 liquidity and financial transparency should also qualify for partial exemptions.

4 Establishing structured, risk-based exemptions allows utilities to maintain
5 necessary protections while promoting fairness and investment. A balanced exemption
6 framework ensures accountability, avoids unnecessary cost burdens, and protects
7 ratepayers without discouraging viable large load development.

8 **Q. What is your stance on collateral reduction?**

9 A. Collateral reduction is an essential element of a sound financial security framework. As a
10 large load project progresses and the utility recovers capital investments, financial risk
11 declines. Collateral requirements should decrease accordingly, either over time or upon
12 reaching performance milestones. For example, once a customer completes construction,
13 begins commercial operation, and demonstrates payment reliability, the likelihood of
14 default or early termination diminishes. A declining collateral schedule ensures alignment
15 with actual risk and prevents unnecessary capital burdens on the customer.

16 This mechanism should be clearly outlined in the tariff or service agreement, with
17 reductions triggered automatically by defined criteria such as contract term progression or
18 ongoing compliance. Collateral reduction reflects prudent credit practice, enhances
19 investment efficiency, and maintains protection for ratepayers.

20 **Q. Do you recommend a certain form of collateral?**

21 A. No. There is no single form of collateral suitable for all utilities or large load customers.
22 Risk preferences vary by utility, and customer financial structures differ widely. A rigid,
23 uniform approach is often impractical and may lead to unintended consequences.

1 Collateral options should include cash deposits, standby letters of credit from
2 investment-grade institutions, surety bonds from qualified insurers, and guarantees from a
3 parent, affiliate, tenant or other entity with a financial interest in the customer and
4 supported by strong credit and liquidity. Each instrument carries distinct costs, risks, and
5 administrative considerations.

6 Providing a standardized menu of approved collateral types allows utilities to
7 manage risk effectively while giving customers flexibility to meet requirements in a
8 manner consistent with their financial strategy. This approach encourages participation,
9 streamlines project development, and upholds ratepayer protection through enforceable,
10 risk-aligned instruments.

11 **Q. Why are scalability and adaptability in credit frameworks important?**

12 A. Scalability and adaptability are essential for managing the increasing number and diversity
13 of large load customers, including data centers, electric vehicle charging hubs, hydrogen
14 production facilities, and other emerging technologies. A scalable credit framework enables
15 utilities to apply consistent processes across a wide range of project sizes and customer
16 types. This promotes efficiency, reduces administrative burden, and supports fair and
17 timely evaluation of interconnection requests.

18 Adaptability ensures that the credit framework remains responsive to changes in
19 market conditions, regulatory objectives, and customer risk profiles. As new customer
20 categories emerge or financial conditions evolve, utilities must have the ability to adjust
21 credit thresholds, collateral requirements, and exemption criteria without overhauling the
22 entire policy structure. This flexibility allows utilities to maintain a consistent approach
23 while addressing unique risk characteristics in a practical and efficient manner.

1 Together, scalability and adaptability provide the foundation for a stable,
2 transparent, and future-ready credit policy. They allow utilities to protect ratepayers from
3 financial exposure while facilitating the reliable and equitable integration of large loads
4 into the electric grid. Importantly, credit policies should not be limited to near-term
5 concerns or tailored narrowly to one customer segment. Rather, they should be designed
6 with a long-term, system-wide perspective that supports the anticipated growth and
7 diversification of large load interconnections. A forward-looking framework that is both
8 scalable and adaptable will enable utilities to manage emerging risks effectively while
9 supporting innovation, investment, and sustained grid reliability.

10 **Section IV: Recommendation to the Commission**

11 **Q. What credit and collateral requirements do other utilities in the region have for large**
12 **load customers?**

13 **A.** Table 2 summarizes the credit and collateral requirements of selected regional utilities for
14 large load customers.

1 **Table 2: Credit and Collateral Proposed or Approved Requirements of Regional Utilities**

Attribute	Indiana Michigan Power	Evergy Kansas & Missouri	ComEd	Consumers Energy	Dominion Energy Virginia
Customer Type	Loads ≥70 MW or 150 MW aggregated	Large Commercial >100 MW	Large Commercial / Industrial	Data centers ≥100 MW	GS-5 customers ≥25 MW & ≥75% load factor
Collateral Requirement	24×max monthly bill	24×max monthly bill	Negotiated under PJM ESA	Negotiated; up to 100% of projected cost	\$1.5M / MW
Credit Exemption / Reduction	Full waiver if credit & liquidity requirements met, partial waiver if only liquidity requirement met	50% or 40% waived if credit & liquidity requirements met	Waived / reduced under PJM standards	Waived / reduced with guarantees or rating	70% reduction if credit & liquidity requirements met
Forms of Collateral	LOC, guarantee, cash		Negotiated (LOC, guarantee, bond)	Negotiated (LOC, guarantee, bond)	LOC, surety bond, cash, parent guarantee

2 **Q. What does Table 2 demonstrate?**

3 A. Table 2 illustrates the varied approaches utilities use to manage credit and collateral
 4 requirements for large load customers. These practices differ based on each utility’s size,
 5 risk tolerance, existing and prospective customer profile, and regulatory environment. This
 6 diversity confirms that no single standardized model is appropriate across all jurisdictions.
 7 Instead, it underscores the value of adopting best practices as a guiding framework. Such
 8 practices promote consistency, fairness, and transparency while allowing for flexibility
 9 based on local conditions. They provide a practical foundation for developing policies that
 10 effectively manage risk and support the integration of large loads into the electric grid.

1 **Q. Based on the financial security best practices framework explained earlier, what are**
2 **your recommendations on financial securities in this case?**

3 A. Based on the established best practices, the recommended approach should balance
4 ratepayer protection with proportionality, transparency, and administrative efficiency.
5 While bilateral negotiation between Consumers Energy and large load customers is
6 acceptable, if the Commission prefers a standardized framework, I recommend the
7 following structure:

8 i) **Collateral Amount and Duration:** Customers should post collateral equal to two
9 years of non-fuel revenue, beginning when Consumers makes capital investments to
10 serve the customer, increasing at the same pace as Consumers makes investments, and
11 reaching the full amount by the time the project is energized. This collateral should
12 remain in place through the load ramp-up period.

13 This level of collateral provides sufficient "skin in the game" to demonstrate the
14 customer's commitment to project development. Maintaining the collateral during the
15 ramp period also serves as an incentive for the customer to achieve full load ramp,
16 thereby minimizing the risk of cost shifts to other customers. While instances of
17 customer default are rare, in such cases, two years of non-fuel revenue would be
18 sufficient to cover the costs associated with underutilized assets until the capacity can
19 be reassigned to a new customer and that customer becomes operational.

20 ii) **Ramp-Down Schedule:** After one year of operations at contracted capacity, collateral
21 should be reduced by 10 percent annually, reaching zero by the end of the contract term.
22 If the contract is extended, no new collateral should be required unless additional utility

1 investments are necessary. The 10 percent reduction annually mirrors the reduced risk
2 to Consumers and ratepayers of stranded assets.

3 **iii) Credit Rating-Based Exemptions:** Customers whose guarantor has a credit rating of
4 at least BBB (S&P) or Baa3 (Moody's), and liquidity of at least five times the collateral
5 amount, should be eligible for a 50 percent exemption. These entities must certify their
6 rating and liquidity annually.

7 Customers without formal ratings may qualify for a 30 percent exemption if their
8 guarantor meets the same rating threshold, is not on a credit watch, and maintains five
9 times liquidity, subject to the same annual certification.

10 **iv) Acceptable Forms of Collateral:** Customer should have the option of posting
11 collateral in the form of a guarantee from a parent, affiliate, tenant or other entity with
12 a financial interest in the customer; a letter of credit; a surety bond, or cash.

13 **v) Collateral in the form of Cash:** Collateral posted in cash should accrue interest while
14 held by Consumers.

15 **vi) Use of Collateral Proceeds:** If Consumers draws on posted collateral, the proceeds
16 should be used to offset costs for remaining ratepayers to ensure the financial security
17 serves its intended purpose to offset costs for all ratepayers.

18 This structure protects ratepayers while avoiding excessive financial obligations for large
19 customers. It ensures recovery of utility costs through a fair, risk-based mechanism that
20 supports investment and operational equity.

1 **Q. Provide an example of the difference in what a customer would pay under Consumers’**
2 **proposal as compared to your recommendation.**

3 A. Consider an illustrative data center customer with a contracted demand of 100 MW and a
4 typical load factor of 85 percent. Under Consumers Energy’s Large General Service
5 Primary Demand Rate, an estimate of the customer’s annual cost for electric service would
6 be approximately \$25.4 million.

7 Under Consumers’ proposal, which requires collateral equal to 15 years of expected
8 revenues, this customer would be obligated to provide over \$380 million in collateral to
9 the utility. Assuming Consumer’s pre-tax weighted average costs of capital (“WACC”) of
10 7.85 percent as the discount rate over the 15-year term, with equal monthly credits applied
11 to the customer’s account, the net present cost of this collateral commitment would be
12 approximately \$150 million.

13 By contrast, under a more proportionate and risk-aligned collateral framework,
14 such as a requirement equal to 2 years of expected revenues, the same customer would
15 provide \$51 million in collateral. Using the same WACC and assuming the collateral is
16 returned in equal monthly installments over a 10-year period, the net present cost to the
17 customer would be approximately \$24 million.

18 This example of collateral posted in cash form, held by the utility without accruing
19 interest, underscores the significant financial burden imposed by the proposed collateral
20 structure. This highlights the need for a more balanced and scalable approach to credit
21 requirements. While cash collateral imposes an immediate and direct strain on a customer’s
22 liquidity, alternative forms of collateral—such as letters of credit or performance bonds—
23 can provide equivalent financial security with significantly less impact on cash flow.

1 As shown in Table 3 below, excessive collateral obligations may deter investment
 2 by increasing the cost of capital and creating financial uncertainty. This risk is amplified if
 3 the utility does not meet interconnection timelines, as customers may be forced to carry
 4 collateral for extended periods, incurring substantial carrying costs. In some cases, this
 5 could result in project delays or abandonment.

6 A well-calibrated, risk-based collateral framework helps mitigate these risks by
 7 aligning financial requirements with the actual creditworthiness of the customer and the
 8 project's development stage. Such an approach protects ratepayers and preserves utility
 9 financial integrity, while also supporting investment in large load projects that can improve
 10 grid efficiency and long-term affordability.

11 **Table 3: Collateral Cash Flow Illustrative Example**

Period (Year)	Cash Flow (\$M)		
	15-Yr Collateral & 15-Yr Recovery	2-Yr Collateral & 10-Yr Recovery	
0	\$ (359)	\$ (48)	<i>Upfront Collateral</i>
1	\$ 23.9	\$ 0	<i>Credit</i>
2	\$ 23.9	\$ 0	<i>Credit</i>
3	\$ 23.9	\$ 0	<i>Credit</i>
4	\$ 23.9	\$ 0	<i>Credit</i>
5	\$ 23.9	\$ 4.8	<i>Credit</i>
6	\$ 23.9	\$ 4.8	<i>Credit</i>
7	\$ 23.9	\$ 4.8	<i>Credit</i>
8	\$ 23.9	\$ 4.8	<i>Credit</i>
9	\$ 23.9	\$ 4.8	<i>Credit</i>
10	\$ 23.9	\$ 4.8	<i>Credit</i>
11	\$ 23.9	\$ 4.8	<i>Credit</i>
12	\$ 23.9	\$ 4.8	<i>Credit</i>
13	\$ 23.9	\$ 4.8	<i>Credit</i>
14	\$ 23.9	\$ 4.8	<i>Credit</i>
15	\$ 23.9	N/A	<i>Credit</i>
	\$ (152)	\$ (24)	<i>Approximate NPV</i>

1 **Part II: Clean Energy**

2 **Section I: Clean energy proposals by party**

3 **Q. What are the clean energy obligations relevant to electric utilities in the state of**
4 **Michigan?**

5 A. Michigan requires electric utilities to meet escalating clean energy targets under the
6 Renewable Energy Standard (“RES”) and Clean Energy Standard (“CES”), as established
7 by Public Act 235 of 2023.

8 i) RES: Utilities must source at least 15 percent of electricity from renewable resources
9 through 2029, increasing to 50 percent by 2030 and 60 percent by 2035. Eligible
10 sources include wind, solar, hydroelectric, and certain biomass. Compliance is tracked
11 through Renewable Energy Credits (“RECs”), with one REC equal to one megawatt-
12 hour of renewable generation.

13 ii) CES: Utilities must achieve 80 percent clean energy by 2035 and 100 percent by 2040.
14 Clean energy includes both renewable and non-emitting sources, such as nuclear power
15 and natural gas with carbon capture.

16 These standards support the state’s broader climate goals to reduce greenhouse gas
17 emissions and advance sustainable energy development.

18 **Q. Is clean or renewable energy important to data center customers?**

19 A. Clean or renewable energy is important to some data center customers, particularly those
20 with environmental, social, and governance (ESG) commitments or sustainability goals.
21 However, it is not a universal priority. For many data centers, especially those focused on
22 commercial deployment, the primary concern is time to market, i.e. securing reliable power
23 quickly to begin operations.

1 While clean energy may factor into long-term strategy or branding, immediate
2 power availability and scalability often take precedence. It remains important to support
3 clean energy development and offer flexible participation options for large load customers.
4 These may include on-site generation, third-party power purchase agreements, and access
5 to green tariff programs. Such flexibility enables progress toward renewable goals while
6 accommodating varying operational needs.

7 **Q. Please summarize the clean energy requirement proposals by parties in this**
8 **proceeding.**

9 A. Table 4 provides a summary of each party's position on clean energy requirements for data
10 center customers.

1

Table 4: Clean Energy Requirements Proposal by Party

Party	Clean Procurement Requirement	Energy	Minimum Renewable	%	Mechanism Proposed
Attorney General (M. Deupree)⁴	Require data centers to contract for renewable energy to meet PA 235 obligations and tax exemption requirements		≥60% renewables	from	Contractual mandate for 60% renewable energy (within MISO Zone 7) + support for 90% clean energy for tax exemptions
Clean Energy Organizations (S. Siddique)⁵	Require data centers to participate in clean energy programs via CESP and VGPs		60% by 2035		Voluntary Green Pricing (VGP), customer CESP, prioritization of low-grid-impact projects
MEIU (J. Albers)⁶	Offer flexible clean energy sourcing options through utility and third-party solutions		Not specified		Competitive RFPs, behind-the-meter resources, demand flexibility, grid-enhancing tech, and 50/50 utility vs. 3rd-party ownership
MNSC⁷ (D. Jester)	Require data centers to meet 90% clean energy for tax exemption requirements and 60% renewables through bespoke portfolios tied to long-term contracts		90% energy; renewable	clean 60%	Voluntary Green Pricing, long-term clean energy contracts, on-site generation; bespoke clean resource portfolios per customer

2

3 **Q. What is the Attorney General's clean energy proposal?**

4 A. The Attorney General recommends incorporating firm clean energy requirements into
 5 Consumers Energy's proposed tariff for large-load data centers under Rate GPD. The
 6 proposal includes a requirement for data center customers to procure at least 60 percent of

⁴ Deupree Direct at 12-13.

⁵ Siddique Direct at 13-14.

⁶ Albers Direct at 14-17.

⁷ Jester Direct at 10-11, 14-15, 18, 21-22.

1 their incremental energy use from renewable sources located within MISO Zone 7, in
2 alignment with Michigan's Renewable Energy Standard target of 60 percent by 2035.

3 Additionally, to qualify for sales and use tax exemptions under MCL 205.54ee, data
4 center customers would be required to demonstrate compliance with the statute's 90
5 percent clean energy threshold. These provisions are intended to ensure compliance with
6 state law and avoid cost-shifting by requiring customers to procure renewable energy
7 directly for their load.

8 **Q. What is your position on the Attorney General's proposal?**

9 A. The requirement that data center customers meet the 90 percent clean energy threshold to
10 qualify for tax exemptions under MCL 205.54ee is reasonable and appears to be consistent
11 with state law. Regarding the proposed 60 percent renewable energy target, achieving this
12 goal may be feasible provided there are no constraints related to time to market. However,
13 prior to committing large-load customers to this accelerated target, it would be prudent to
14 obtain further clarity on the implementation framework, associated timelines, and
15 operational implications. A comprehensive understanding of these factors is essential to
16 ensure informed decision-making and to avoid unintended impacts on market dynamics
17 and project viability.

18 **Q. What is the Clean Energy Organizations' clean energy proposal?**

19 A. The Clean Energy Organizations propose a clean energy framework to ensure that large
20 data center customers comply with statutory requirements while limiting cost impacts on
21 other utility customers. They recommend that data centers seeking sales and use tax
22 exemptions under Public Acts 207 and 181 of 2024 be required to procure at least 90
23 percent of their electricity from clean energy sources, as defined in Section 51 of the Clean

1 and Renewable Energy and Energy Waste Reduction Act. Additionally, they propose that
2 all new data center load be served by a portfolio that includes at least 60 percent renewable
3 energy. To meet these targets, they suggest Consumers Energy offer options such as
4 voluntary green pricing, long-term power purchase agreements, and on-site renewable
5 generation, tailored to each data center's load profile.

6 **Q. What is your position on the Clean Energy Organizations' proposal?**

7 A. My position is consistent with my view on the Attorney General's proposal. I support the
8 requirement that data center customers meet the 90 percent clean energy threshold to
9 qualify for sales and use tax exemptions, as it is a reasonable standard and appears to be
10 consistent with state law.

11 With respect to the proposed 60 percent renewable energy procurement
12 requirement, achieving this target could be feasible if there are no constraints on time to
13 market. However, it would be premature to impose this standard on data center customers
14 without first obtaining greater clarity on how the requirement would be implemented,
15 enforced, and integrated into existing planning and procurement processes.

16 **Q. What is the MEIU's clean energy proposal?**

17 A. MEIU proposes a clean energy framework that emphasizes customer flexibility,
18 innovation, and market-based procurement. Instead of imposing fixed renewable energy
19 procurement requirements, MEIU recommends offering data center customers a range of
20 clean energy options. These include behind-the-meter solutions such as on-site solar and
21 battery storage, participation in demand-side flexibility programs, and deployment of grid-
22 enhancing technologies.

1 MEIU also proposes allowing customers to reduce their effective contract capacity,
2 which determines minimum demand charges, if they commit to serving part of their load
3 through on-site resources. In addition, customers should be permitted to enter into third-
4 party power purchase agreements (“PPAs”) without being required to participate in
5 Consumers Energy’s Voluntary Green Pricing (“VGP”) program.

6 To meet any remaining capacity needs, MEIU recommends that Consumers Energy
7 conduct competitive all-source requests for proposals (“RFPs”), evaluated by an
8 independent administrator to ensure fairness and transparency. Customers would also have
9 the option to pay a premium to prioritize certain resource types, such as solar or storage, in
10 Consumers’ resource planning.

11 **Q. What is your position on MEIU’s proposal?**

12 A. I support MEIU’s clean energy proposal. Allowing customers to reduce their effective
13 contract capacity in exchange for deploying on-site resources promotes flexibility and
14 recognizes distributed energy investments. The recommendation to permit third-party
15 PPAs outside of the VGP program enhances market access and customer choice.

16 Requiring Consumers Energy to issue competitive, independently evaluated all-
17 source RFPs for unmet needs improves transparency and cost control. Providing customers
18 the option to pay a premium for prioritizing specific resource types further supports
19 alignment between sustainability goals and utility planning. Overall, MEIU’s proposal
20 offers a balanced and practical framework for advancing clean energy while maintaining
21 customer choice and protecting ratepayers.

1 **Q. What is the MNSC' clean energy proposal?**

2 A. MNSC's proposal is similar to the Attorney General's proposal which includes a
3 requirement for data center customers to procure at least 60 percent of their incremental
4 energy use from renewable sources and a requirement to demonstrate compliance with the
5 statute's 90 percent clean energy threshold for sales and use tax exemptions.

6 **Q. What is your position on the MNSC's proposal?**

7 A. As stated previously, the requirement that data center customers meet the 90 percent clean
8 energy threshold to qualify for tax exemptions under MCL 205.54ee is reasonable and
9 appears to be consistent with state law. Regarding the proposed 60 percent renewable
10 energy target, achieving this goal may be feasible provided there are no constraints related
11 to time to market. However, prior to committing large-load customers to this accelerated
12 target, it would be prudent to obtain further clarity on the implementation framework,
13 associated timelines, and operational implications. A comprehensive understanding of
14 these factors is essential to ensure informed decision-making and to avoid unintended
15 impacts on market dynamics and project viability.

16 **Section II: Recommendation to the Commission**

17 **Q. What is your clean energy recommendation to the Commission?**

18 A. I recommend that the Commission adopt a balanced and pragmatic approach that
19 incorporates the most reasonable and flexible elements from the proposals submitted by
20 various stakeholders. Specifically, I support policies that allow data center customers to
21 reduce their effective contract capacity through investments in on-site renewable
22 generation. I also support enabling third-party PPAs outside of the VGP program, requiring
23 competitive all-source RFPs evaluated by an independent administrator, and providing

1 customers the option to pay a premium to prioritize specific renewable resource types.
2 These mechanisms, as proposed by MEIU, offer essential flexibility and are well aligned
3 with the operational and procurement needs of large-load customers.

4 With respect to the proposed 60 percent renewable energy procurement
5 requirement, I am not in a position to fully support its adoption at this time. While the target
6 may be technically achievable and consistent with the clean energy goals of many large-
7 load customers, there is currently insufficient clarity regarding how such a requirement
8 would impact project development timelines. Time to market is a primary concern for data
9 centers. If not carefully structured, accelerated renewable mandates could introduce delays,
10 uncertainty, or additional barriers that are incompatible with the rapid deployment
11 schedules typical of data center development.

12 Accordingly, I recommend that the Commission direct Consumers Energy to
13 conduct further analysis and engage with stakeholders to evaluate the feasibility,
14 implementation pathways, and timing of such a target. The results of this process should
15 be reviewed by the Commission at a later date before any binding commitments are
16 established.

17 Finally, any clean energy requirements or associated cost allocation mechanisms
18 adopted by the Commission should be applied equitably across all large-load customers. A
19 consistent, technology-neutral policy framework is essential to ensure regulatory fairness,
20 encourage continued investment, and support Michigan's broader transition to a clean
21 energy economy.

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

23 **A.** Yes.

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of)
Consumers Energy Company for *Ex Parte*)
Approval of Certain Amendments to Rate)
GPD)

Case No. U-21859

CORRECTED

REBUTTAL TESTIMONY OF

SHANA RAMIREZ

ON BEHALF OF

THE DATA CENTER COALITION

JULY 9, 2025

1 **Q. STATE YOUR NAME, OCCUPATION, AND BUSINESS ADDRESS.**

2 A. My name is Shana Ramirez, and I am a Director at Energy and Environmental Economics
3 also known as E3. My business address is 44 Montgomery Street, Suite 1500, San
4 Francisco, CA 940104.

5 **Q. On whose behalf are you filing testimony?**

6 A. I am filing testimony on behalf of the Data Center Coalition (“DCC”).

7 **Q. Describe your professional background and experience.**

8 A. I bring over a decade of experience in the energy industry, with a focus on regulatory policy,
9 load forecasting, rate design, and renewable energy development. Prior to joining E3, I
10 held several positions at NV Energy, including in the Rates, Load Forecasting, and
11 Regulatory Affairs departments. Most recently, I served as Program Development Director
12 in the Renewables Department.

13 In that role, I led a team responsible for advancing innovative power supply
14 solutions and tariff designs for large-load customers, including data centers and other
15 energy-intensive users. This work required close coordination with internal regulatory,
16 legal, and resource planning teams, as well as extensive engagement with external
17 stakeholders such as customers, developers, and regulatory staff.

18 A key outcome of this work was the design and successful regulatory approval of
19 the Clean Transition Tariff by the Public Utilities Commission of Nevada. This tariff
20 enables large-load customers to procure renewable energy resources to meet their
21 operational needs while aligning customer preferences with state policy objectives. The
22 role also involved negotiating and structuring contracts that included thorough assessments
23 of financial security requirements and risk mitigation provisions.

1 Earlier in my career, I worked in the insurance sector where I performed actuarial
2 analysis focused on risk assessment and modeling. These skills continue to inform my
3 approach to evaluating utility programs and contract structures.

4 **Q. PLEASE DESCRIBE E3.**

5 A. E3 is an economic consulting firm with more than 30 years of experience specializing in
6 the North American power sector. The firm provides data-driven insights and objective
7 recommendations to a diverse range of clients, including utilities, regulatory agencies,
8 government entities, project developers, investors, and non-profit organizations.

9 Through its work across all segments of the energy industry, E3 offers a
10 comprehensive understanding of energy markets, resource planning, public policy,
11 regulation, and environmental considerations. The firm is committed to producing clear
12 and impartial analyses. That is why my recommendations are fair and balanced, addressing
13 the needs of both the utility and large-load customers.

14 **Q. Have you previously testified before this Commission?**

15 A. I have not.

16 **Q. What topics are you addressing in your testimony?**

17 A. My testimony addresses financial security requirements for large load customers, including
18 data centers. I review all parties' proposals, outline best practices for credit and collateral
19 frameworks, and recommend a holistic risk-appropriate financial security approach to the
20 Commission. The objective is to protect ratepayers while enabling equitable and scalable
21 integration of large loads into Consumers' system.

22 I also address the proposed clean energy and renewable resource requirements for
23 data centers. I evaluate all proposals, state my position, and recommend a flexible approach

1 that supports clean energy options in the context of Michigan's statutes and policies for
2 large load customers including data centers in a non-discriminatory way.

3 **Q. How is your testimony structured?**

4 A. My testimony is organized in two parts:

5 **i) Part I: Financial Security**

6 Section I: Overview of financial security and large loads

7 Section II: Summary of financial security proposals by party

8 Section III: Best practices for financial security

9 Section IV: Recommendation to the Commission

10 **ii) Part II: Clean Energy**

11 Section I: Summary of clean energy proposals by party

12 Section II: Recommendation to the Commission

13 **Part I: Financial Security**

14 **Section I: Overview of financial security and large loads**

15 **Q. What is financial security?**

16 A. Financial security refers to assets, credit instruments, collateral, or contractual assurances
17 provided by large-load customers to the utility. It serves to mitigate the risk of non-payment
18 or stranded assets, helping ensure that the cost of service is recovered and not shifted to
19 other ratepayers.

20 **Q. What risks do large loads, including data centers, pose to utilities and other
21 ratepayers?**

22 A. Large loads, such as data centers, pose several potential risks related to system reliability,
23 cost impacts, and regulatory compliance. Rapid and substantial load growth can strain

1 existing generation resources and create congestion on transmission and distribution
2 networks. These pressures not only challenge the short-term reliability of the system but
3 also complicate long-term resource and infrastructure planning.

4 From a financial standpoint, utilities may need to undertake significant capital
5 investments in infrastructure upgrades, including new substations, transmission lines, and
6 distribution enhancements, to accommodate such loads. Should the customer reduce
7 operations unexpectedly or exit the service territory, these investments may become
8 stranded assets. In such cases, the financial burden could shift to other ratepayers,
9 especially if adequate financial security protections are not in place to mitigate the impact.
10 The risk of non-payment or partial recovery of infrastructure costs also poses a liability for
11 the utility and its broader customer base.

12 The accelerated growth in electricity demand associated with large load customers
13 may challenge the utility's ability to procure or develop sufficient clean energy resources,
14 implicating statutory or regulatory clean energy and emission reductions targets along with
15 the utility's own voluntary objectives.

16 **Q. What are the potential benefits of large load customers taking service in Consumers**
17 **Energy's territory?**

18 A. Large load customers, including data centers, manufacturing facilities, and emerging
19 industries, provide substantial economic, operational, and strategic benefits to the utility
20 and the broader community. Economically, they contribute to job creation, attract private
21 investment, expand the tax base, and stimulate regional economic development. From a
22 system reliability perspective, their presence may support and even accelerate necessary

1 utility investments in aging infrastructure, ultimately enhancing service quality for all
2 customers.

3 Multi-year service commitments from large load customers enhance the utilization
4 of both existing and new generation and transmission assets. These customers also
5 contribute stable, long-term demand, which supports more efficient resource planning and
6 system modernization efforts.

7 Financially, large loads can increase and stabilize utility revenues by expanding
8 overall system usage. A higher total sales volume allows the utility to distribute fixed
9 system costs across more kilowatt-hours, which may help reduce costs for other ratepayers.

10 From a policy and compliance standpoint, many large load customers are actively
11 pursuing ambitious sustainability objectives. This creates opportunities for meaningful
12 collaboration on clean energy procurement, energy efficiency initiatives, and innovative
13 grid solutions. Furthermore, large, consistent loads may catalyze the deployment of
14 emerging technologies, such as advanced geothermal or nuclear power, hydrogen-based
15 fuels, and grid-scale energy storage as well as supporting a variety of grid-enhancing
16 technologies. By serving as anchor customers or project sponsors, these entities can help
17 advance alternative pathways to achieving the utility's clean energy and decarbonization
18 goals especially if they are willing to take on more risk such as supporting first-of-a-kind
19 technologies that is not appropriate for a utility to bear but could provide future benefits
20 when those technologies are potentially de-risked.

21 **Q. Do you support requiring financial security from large load customers?**

22 A. I support requiring financial security from large load customers as a means of protecting
23 utilities and their ratepayers from potential financial risks, including stranded assets,

1 project delays, and customer default. Large load projects often require substantial
2 infrastructure investment. If such projects are canceled, delayed, or significantly reduced,
3 the resulting sunk costs may ultimately be shifted to other ratepayers. Financial assurances
4 such as collateral, guarantees, or prepayments work in tandem with others rate payer
5 protections such as capacity reduction penalties and exit fees. These mechanisms
6 collectively ensure that customers assume appropriate responsibility for the risks they
7 introduce and that the utility can recover its costs.

8 **Q. At a high level, how should the utility approach the design of financial security**
9 **requirements for large load customers?**

10 A. Financial security requirements should be proportionate to the specific risks associated
11 with each project. Many large load customers are backed by financially stable sponsors and
12 supported by long-term commercial commitments. A rigid and uniform approach may
13 unintentionally deter low-risk, high-value projects. A more effective strategy involves
14 structuring requirements to evolve over time, beginning with a collateral ramp reflective
15 of utility investments, full collateral held during any ramp period and the reduction of
16 collateral once at full contracted capacity as the risk to both the utility and rate payers
17 diminishes over the contract term. This staged approach appropriately reflects the risk
18 profile from the utility's perspective.

19 Offering a range of credit tools, such as milestone-based collateral structures, surety
20 bonds, guarantees, or upfront financial contributions, can provide necessary flexibility
21 while maintaining financial discipline. Tailoring credit requirements to a project and
22 customer-specific risk enhances transparency, reduces unnecessary capital constraints, and
23 supports responsible growth. The goal is to strike a balance between protecting ratepayers

1 and enabling scalable, long-term development that delivers benefits to both the utility and
2 the broader community.

3 In addition, flexibility in financial security frameworks can improve how customers
4 perceive investment risk in the utility's service territory. While stricter requirements may
5 appear to reduce risk, excessive collateral obligations can, in practice, deter investment.
6 When combined with uncertain project timelines, these obligations can significantly
7 increase carrying costs for customers. This may lead to otherwise viable projects being
8 abandoned or removed from interconnection queues, which in turn increases the risk of
9 stranded assets and undermines the very protections the financial requirements aim to
10 ensure.

11 **Q. Should financial security requirements apply only to data centers?**

12 A. No. Limiting financial security requirements to data centers while exempting other large
13 load customers is both inequitable and unjustified. All large loads, whether from new or
14 existing customers, including manufacturing facilities and other high-demand users, can
15 pose similar financial and operational risks to utilities. These risks include project
16 cancellations, delays, underperformance, or abrupt departures, any of which can result in
17 stranded costs or unrecovered infrastructure investments.

18 Imposing stricter financial requirements solely on data centers unfairly targets a
19 sector that often includes financially stable entities with strong institutional backing,
20 consistent high load factors, and long-term service commitments. At the same time, other
21 large customers with comparable or even greater risk profiles may not be held to the same
22 standards.

1 It is also important to evaluate the risk characteristics of individual data centers
2 rather than generalizing across the entire industry. The data center sector is diverse,
3 encompassing a range of business models such as hyperscalers, colocation providers, and
4 enterprise-owned facilities. It also includes widely varying financial and ownership
5 structures. For this reason, a uniform approach to financial security is not appropriate.
6 Instead, policies should be structured based on measurable risk factors and applied
7 consistently across all large load customers, regardless of industry classification.

8 A risk-based framework should consider project maturity, customer financial
9 strength, and the scale of potential exposure. Applying consistent criteria in this way
10 promotes fairness, protects ratepayers, and upholds transparency and nondiscriminatory
11 utility practices. This also ensures that the financial security practices determined today
12 can apply to the next innovative type of large load customers.

13 **Section II: Financial security proposals by party**

14 **Q. Provide an overview of each party's views on Consumers Energy's financial security**
15 **proposal and any recommended changes.**

16 A. Table 1 summarizes the recommendations and positions of all parties regarding Consumers
17 Energy's financial security proposal.

1

Table 1: Parties Positions on Credit and Collateral

Party	Collateral Requirement	Creditworthiness Criteria
Consumers Energy (L. Connolly)¹	Up to 100% of projected cost to serve over 15-year contract term; additional financial security at discretion.	Exemptions for investment-grade credit and high liquidity, but not embedded in tariff.
MPSC Staff (D. Isakson)²	Acknowledges the need for financial security to protect other ratepayers from risks tied to large data centers. Supports clear tariff language enabling Consumers to require financial protections, including collateral.	Recommends formalizing the evaluation process and requiring Consumers to outline credit standards in the tariff to avoid arbitrary application and ensure transparency.
Attorney General (M. Deupree)³	Supports financial security; criticizes vagueness; seeks codified credit standards and oversight.	Wants formal tariff language defining credit standards; partial/full exemptions based on credit rating and liquidity.

2

3 **Q. What is your understanding of Consumers Energy's financial security proposal?**

4 A. Consumers Energy proposes the authority to require data center customers to provide
5 collateral equal to up to 100 percent of the projected cost of service over a 15-year contract
6 term if not deemed creditworthy. Customers with credit rating of A- from S&P and A3 from
7 Moody's and liquidity greater than 10 times the collateral requirement will be exempt from
8 collateral. Customers that do not possess that credit rating but have liquidity greater than
9 10 times the collateral requirement would be exempt from 50% of the requirement not
10 exceeding \$250 million. The proposal would also allow Consumers to impose additional
11 financial security requirements at its discretion.

¹ Connolly Direct at 7 (collateral); Draft Data Center Contract at Jester Direct, Exhibit MEC-2 at 3; and Deupree Direct at 16 (discussing including specifics of collateral requirements as part of the tariff) (credit).

² Isakson Direct at 9-10 (collateral) and 11-12 (credit).

³ Deupree Direct at 17-18 (collateral) and 20-22 (credit).

1 **Q. What is your position on Consumers Energy's proposal?**

2 A. Consumers Energy's proposal to require up to 100 percent financial security is
3 disproportionate to the actual risk presented by most large load projects. When combined
4 with other safeguards such as exit fees, minimum billing demand provisions, and long-term
5 contracts, such a high collateral requirement creates an unnecessary barrier that could
6 discourage investment and delay beneficial projects.

7 Many of the customers anticipated to take service under the tariff at issue are likely
8 to have investment-grade credit and stable, long-term commitments. For these customers,
9 imposing blanket, high collateral requirements are not warranted. Instead, I support flexible
10 collateral structures that are calibrated to the specific risk profile of each customer. These
11 structures should operate within a clearly defined framework based on industry best
12 practices, which I discuss later in my testimony. This approach ensures both ratepayer
13 protection and the promotion of sustainable load growth.

14 **Q. Are you opposed to Consumers Energy's proposal to address financial security**
15 **through individual agreements with customers?**

16 A. No, I am not opposed. I view bilateral negotiations and a defined collateral framework as
17 complementary tools that serve the same overall purpose: protecting ratepayers while
18 enabling responsible load growth. Bilateral agreements provide the flexibility to tailor
19 solutions to the specific financial conditions of large load customers. At the same time, a
20 well-designed, standardized framework can offer consistency and transparency where
21 individual negotiations are not feasible. However, Consumers' proposal does not
22 appropriately balance risk management with the goal of encouraging long-term,
23 sustainable load growth. A rigid, high-collateral model may discourage projects that could

1 improve load factors, enhance fixed-cost recovery, and support grid investments. A
2 proportionate, risk-based framework is needed to safeguard ratepayers while enabling
3 growth that strengthens system performance and long-term affordability.

4 **Q. Provide more detail on Staff's financial security proposal.**

5 A. Staff proposes that the required collateral would equal the exit fee, defined as 80 percent
6 of the customer's contracted capacity multiplied by the number of months remaining in the
7 contract. This amount would decrease annually to reflect the utility's declining financial
8 exposure.

9 Customers could satisfy the requirement using approved instruments, including:

- 10 i) A parent or affiliate guarantee from an entity rated at least A- by S&P and A3 by
11 Moody's, with liquidity ten times the required collateral
12 ii) A standby irrevocable letter of credit from a qualifying U.S. or U.S.-branch bank
13 iii) Cash posted in full
14 iv) Unrated customers may qualify for a 50 percent exemption, capped at \$250 million, if
15 they provide quarterly financials and certify liquidity of ten times the required amount.

16 Staff's proposal rejects Consumers Energy's broader discretionary authority to require
17 collateral up to the full projected service cost.

18 **Q. What is your position on Staff's proposal?**

19 A. I do not support Staff's proposal. While its intent to protect ratepayers is sound, the
20 collateral structure is excessive and misaligned with practical risk management. Requiring
21 collateral equal to the full or half of the remaining exit fee imposes an unnecessary barrier
22 for customers, particularly those with strong financial backing and long-term
23 commitments.

1 A more appropriate approach would base collateral on a customer's monthly bill
2 over a defined period. This method better reflects actual exposure and allows exemptions
3 for creditworthy customers. The collateral should increase as the utility makes investments
4 on the customers behalf to the date of energization and then should also be reduced
5 annually following the ramp period, recognizing the declining risk to the utility and
6 ratepayers.

7 If the Commission includes credit requirements in the tariff, they should be based
8 on project-specific risk. The current proposal, even in its "compromise" form, still poses
9 an unreasonable financial barrier and does not align with principles of fairness, risk
10 calibration, or regulatory equity.

11 **Q. What is the Attorney General's financial security proposal?**

12 A. The Attorney General opposes granting the utility broad authority to impose collateral
13 equal to the full cost of service. Instead, the proposal calls for specific tariff language to
14 govern how collateral is calculated and to ensure that only customers posing significant
15 risk are required to provide financial security.

16 The Attorney General supports Consumers' exemptions for customers with
17 investment-grade credit ratings and sufficient liquidity, and allows a 50 percent exemption,
18 capped at \$250 million, for unrated customers that meet liquidity thresholds. These
19 standards must be clearly stated in the tariff.

20 **Q. What is your position on the Attorney General's proposal?**

21 A. I do not support the Attorney General's proposal because it is overly prescriptive and does
22 not provide adequate flexibility for Consumers Energy and large load customers to engage
23 in bilateral negotiations regarding financial security requirements. Bilateral agreements are

1 an important tool that allow financial security obligations to be tailored based on the unique
2 financial characteristics, risk profiles, and development stages of individual projects. This
3 flexibility is critical to supporting long-term, sustainable load growth while ensuring that
4 collateral requirements remain proportionate and do not create unnecessary barriers to
5 investment.

6 However, I also recognize the importance of establishing a consistent framework
7 that outlines guiding principles for determining financial security obligations. A well-
8 defined framework can enhance transparency, promote fairness, and provide a predictable
9 structure for both the utility and prospective customers. It helps ensure that ratepayers are
10 protected and that financial risk is managed appropriately.

11 Importantly, I do not view a consistent framework and the ability to negotiate
12 bilateral agreements as mutually exclusive. Rather, they can and should function together.
13 A standardized framework can serve as a foundational reference that sets expectations and
14 best practices, while still allowing for case-by-case adjustments through negotiation where
15 circumstances warrant a more customized approach. This dual-path structure ensures that
16 the utility is equipped to manage financial risk effectively while also encouraging economic
17 development and grid-enhancing projects.

18 **Section III: Financial security best practices**

19 **Q. Are there best practices for large load financial security?**

20 A. Yes. E3 has identified best practices for managing financial security for large load
21 customers, particularly where utilities face significant capital investment and risk of
22 stranded costs. These practices aim to ensure cost recovery, support responsible load
23 growth, and promote fair treatment of all customers.

1 A key principle is aligning financial security requirements with actual risk
2 exposure. This involves using a phased or milestone-based structure in which collateral
3 levels adjust based on the project's stage and the utility's financial commitment. Early-
4 stage projects, which carry higher risk, should provide greater upfront security that can be
5 reduced as the project advances through permitting, financing, construction, and operation.

6 Another best practice is offering a standardized set of acceptable collateral
7 instruments. Utilities should accept various forms of security, such as surety bonds;
8 guarantees from a parent, affiliate, tenant, or other entity with a financial interest in the
9 customer; sponsor support agreements; and contributions in aid of construction. This
10 flexibility accommodates different customer financial structures while maintaining utility
11 protection.

12 Avoiding redundancy is also important. Utilities should not impose overlapping
13 forms of security that address the same risk, such as combining contributions-in-aid-of-
14 construction ("CIAC"), exit fees, and demand guarantees without clear justification. Credit
15 frameworks should include evaluation tools, such as a credit efficiency index or
16 "scorecard", to assess the adequacy of existing protections and calibrate requirements
17 appropriately.

18 Transparency and consistency are essential. Utilities should define clear credit
19 evaluation criteria, including liquidity thresholds, credit ratings, and exemption standards.
20 Frameworks must also be scalable and adaptable to accommodate growing and evolving
21 large load interconnection requests.

1 Together, these practices provide a disciplined and balanced approach that protects
2 ratepayers, supports infrastructure investment, and ensures a fair and efficient
3 interconnection process.

4 **Q. Please provide more details on the milestone-based approach.**

5 A. A milestone-based approach to financial security ties the level and type of collateral to key
6 stages in the development of a large load project and the customer's lifecycle. Rather than
7 imposing a fixed collateral requirement, this approach adjusts financial security obligations
8 as the utility's exposure evolves over time.

9 Collateral requirements should begin when the utility starts making financial
10 commitments on behalf of the customer and increase as those investments grow. At the
11 customers' facility commercial operation date and throughout the load ramp period, full
12 collateral should be held to incentivize customers to meet their ramp targets and to mitigate
13 the risk of underutilized assets. Once the customer has fully ramped their load, collateral
14 should be gradually reduced to reflect the declining risk to the utility and ratepayers. This
15 reduction should continue month by month as the customer meets its contractual
16 obligations, aligning financial security with actual performance and risk.

17 The milestone-based framework offers a transparent, scalable, and disciplined way
18 to manage financial security. It balances ratepayer protection with flexibility for
19 responsible, creditworthy customers and aligns financial obligations with both project risk
20 and utility investment timing.

21 **Q. Please expand on the standardized menu of acceptable collateral instruments.**

22 A. A standardized menu of acceptable collateral instruments is essential to a transparent and
23 effective financial security framework for large load customers. It provides clarity and

1 consistency by listing approved financial tools that customers may use to meet collateral
2 obligations. This approach promotes fairness and allows customers to select instruments
3 that align with their financial structure, while ensuring the utility remains protected.

4 Common instruments include letters of credit, guarantees, surety bonds, and cash
5 deposits. Letters of credit must be issued by a U.S. bank or a U.S. branch of a foreign bank
6 with a minimum credit rating, typically BBB- or higher from S&P and a Baa3 or higher
7 from Moody's. These letters must meet requirements for term length and automatic
8 renewal. Parent or affiliate guarantees must come from entities with sufficient credit quality
9 and liquidity to support the obligation. Surety bonds, issued by qualified insurers, can be a
10 cost-effective option. Cash collateral, though less flexible, offers strong security and is
11 universally accepted.

12 Including these instruments, along with clear eligibility standards, ensures the
13 utility's financial exposure is adequately managed without imposing excessive burdens on
14 customers. The availability of multiple options supports a range of financial profiles and
15 simplifies compliance and enforcement. This structure helps maintain equitable treatment,
16 operational efficiency, and a balanced approach to risk management.

17 **Q. Should there be collateral exemptions?**

18 A. Yes. Collateral exemptions are appropriate because financial security requirements should
19 reflect the actual risk posed by each customer. Applying uniform collateral across all large
20 load customers can lead to overcollateralization and create unnecessary barriers,
21 particularly for financially stable and low-risk entities.

22 Exemptions should be based on objective criteria as discussed in the previous
23 answer. For example, a customer with an investment-grade rating and liquidity exceeding

1 ten times the required collateral should not be subject to the same obligations as a customer
2 with speculative credit and low liquidity. Customers without formal ratings but with strong
3 liquidity and financial transparency should also qualify for partial exemptions.

4 Establishing structured, risk-based exemptions allows utilities to maintain
5 necessary protections while promoting fairness and investment. A balanced exemption
6 framework ensures accountability, avoids unnecessary cost burdens, and protects
7 ratepayers without discouraging viable large load development.

8 **Q. What is your stance on collateral reduction?**

9 A. Collateral reduction is an essential element of a sound financial security framework. As a
10 large load project progresses and the utility recovers capital investments, financial risk
11 declines. Collateral requirements should decrease accordingly, either over time or upon
12 reaching performance milestones. For example, once a customer completes construction,
13 begins commercial operation, and demonstrates payment reliability, the likelihood of
14 default or early termination diminishes. A declining collateral schedule ensures alignment
15 with actual risk and prevents unnecessary capital burdens on the customer.

16 This mechanism should be clearly outlined in the tariff or service agreement, with
17 reductions triggered automatically by defined criteria such as contract term progression or
18 ongoing compliance. Collateral reduction reflects prudent credit practice, enhances
19 investment efficiency, and maintains protection for ratepayers.

20 **Q. Do you recommend a certain form of collateral?**

21 A. No. There is no single form of collateral suitable for all utilities or large load customers.
22 Risk preferences vary by utility, and customer financial structures differ widely. A rigid,
23 uniform approach is often impractical and may lead to unintended consequences.

1 Collateral options should include cash deposits, standby letters of credit from
2 investment-grade institutions, surety bonds from qualified insurers, and guarantees from a
3 parent, affiliate, tenant or other entity with a financial interest in the customer and
4 supported by strong credit and liquidity. Each instrument carries distinct costs, risks, and
5 administrative considerations.

6 Providing a standardized menu of approved collateral types allows utilities to
7 manage risk effectively while giving customers flexibility to meet requirements in a
8 manner consistent with their financial strategy. This approach encourages participation,
9 streamlines project development, and upholds ratepayer protection through enforceable,
10 risk-aligned instruments.

11 **Q. Why are scalability and adaptability in credit frameworks important?**

12 A. Scalability and adaptability are essential for managing the increasing number and diversity
13 of large load customers, including data centers, electric vehicle charging hubs, hydrogen
14 production facilities, and other emerging technologies. A scalable credit framework enables
15 utilities to apply consistent processes across a wide range of project sizes and customer
16 types. This promotes efficiency, reduces administrative burden, and supports fair and
17 timely evaluation of interconnection requests.

18 Adaptability ensures that the credit framework remains responsive to changes in
19 market conditions, regulatory objectives, and customer risk profiles. As new customer
20 categories emerge or financial conditions evolve, utilities must have the ability to adjust
21 credit thresholds, collateral requirements, and exemption criteria without overhauling the
22 entire policy structure. This flexibility allows utilities to maintain a consistent approach
23 while addressing unique risk characteristics in a practical and efficient manner.

1 Together, scalability and adaptability provide the foundation for a stable,
2 transparent, and future-ready credit policy. They allow utilities to protect ratepayers from
3 financial exposure while facilitating the reliable and equitable integration of large loads
4 into the electric grid. Importantly, credit policies should not be limited to near-term
5 concerns or tailored narrowly to one customer segment. Rather, they should be designed
6 with a long-term, system-wide perspective that supports the anticipated growth and
7 diversification of large load interconnections. A forward-looking framework that is both
8 scalable and adaptable will enable utilities to manage emerging risks effectively while
9 supporting innovation, investment, and sustained grid reliability.

10 **Section IV: Recommendation to the Commission**

11 **Q. What credit and collateral requirements do other utilities in the region have for large**
12 **load customers?**

13 A. Table 2 summarizes the credit and collateral requirements of selected regional utilities for
14 large load customers.

1 **Table 2: Credit and Collateral Proposed or Approved Requirements of Regional Utilities**

Attribute	Indiana Michigan Power	Evergy Kansas & Missouri	ComEd	Consumers Energy	Dominion Energy Virginia
Customer Type	Loads ≥70 MW or 150 MW aggregated	Large Commercial >100 MW	Large Commercial / Industrial	Data centers ≥100 MW	GS-5 customers ≥25 MW & ≥75% load factor
Collateral Requirement	24×max monthly bill	24×max monthly bill	Negotiated under PJM ESA	Negotiated; up to 100% of projected cost	\$1.5M / MW
Credit Exemption / Reduction	Full waiver if credit & liquidity requirements met, partial waiver if only liquidity requirement met	50% or 40% waived if credit & liquidity requirements met	Waived / reduced under PJM standards	Waived / reduced with guarantees or rating	70% reduction if credit & liquidity requirements met
Forms of Collateral	LOC, guarantee, cash		Negotiated (LOC, guarantee, bond)	Negotiated (LOC, guarantee, bond)	LOC, surety bond, cash, parent guarantee

2 **Q. What does Table 2 demonstrate?**

3 A. Table 2 illustrates the varied approaches utilities use to manage credit and collateral
 4 requirements for large load customers. These practices differ based on each utility’s size,
 5 risk tolerance, existing and prospective customer profile, and regulatory environment. This
 6 diversity confirms that no single standardized model is appropriate across all jurisdictions.
 7 Instead, it underscores the value of adopting best practices as a guiding framework. Such
 8 practices promote consistency, fairness, and transparency while allowing for flexibility
 9 based on local conditions. They provide a practical foundation for developing policies that
 10 effectively manage risk and support the integration of large loads into the electric grid.

1 **Q. Based on the financial security best practices framework explained earlier, what are**
2 **your recommendations on financial securities in this case?**

3 A. Based on the established best practices, the recommended approach should balance
4 ratepayer protection with proportionality, transparency, and administrative efficiency.
5 While bilateral negotiation between Consumers Energy and large load customers is
6 acceptable, if the Commission prefers a standardized framework, I recommend the
7 following structure:

8 i) **Collateral Amount and Duration:** Customers should post collateral equal to two
9 years of non-fuel revenue, beginning when Consumers makes capital investments to
10 serve the customer, increasing at the same pace as Consumers makes investments, and
11 reaching the full amount by the time the project is energized. This collateral should
12 remain in place through the load ramp-up period.

13 This level of collateral provides sufficient "skin in the game" to demonstrate the
14 customer's commitment to project development. Maintaining the collateral during the
15 ramp period also serves as an incentive for the customer to achieve full load ramp,
16 thereby minimizing the risk of cost shifts to other customers. While instances of
17 customer default are rare, in such cases, two years of non-fuel revenue would be
18 sufficient to cover the costs associated with underutilized assets until the capacity can
19 be reassigned to a new customer and that customer becomes operational.

20 ii) **Ramp-Down Schedule:** After one year of operations at contracted capacity, collateral
21 should be reduced by 10 percent annually, reaching zero by the end of the contract term.
22 If the contract is extended, no new collateral should be required unless additional utility

1 investments are necessary. The 10 percent reduction annually mirrors the reduced risk
2 to Consumers and ratepayers of stranded assets.

3 **iii) Credit Rating-Based Exemptions:** Customers whose guarantor has a credit rating of
4 at least BBB (S&P) or Baa3 (Moody's), and liquidity of at least five times the collateral
5 amount, should be eligible for a 50 percent exemption. These entities must certify their
6 rating and liquidity annually.

7 Customers without formal ratings may qualify for a 30 percent exemption if their
8 guarantor meets the same rating threshold, is not on a credit watch, and maintains five
9 times liquidity, subject to the same annual certification.

10 **iv) Acceptable Forms of Collateral:** Customer should have the option of posting
11 collateral in the form of a guarantee from a parent, affiliate, tenant or other entity with
12 a financial interest in the customer; a letter of credit; a surety bond, or cash.

13 **v) Collateral in the form of Cash:** Collateral posted in cash should accrue interest while
14 held by Consumers.

15 **vi) Use of Collateral Proceeds:** If Consumers draws on posted collateral, the proceeds
16 should be used to offset costs for remaining ratepayers to ensure the financial security
17 serves its intended purpose to offset costs for all ratepayers.

18 This structure protects ratepayers while avoiding excessive financial obligations for large
19 customers. It ensures recovery of utility costs through a fair, risk-based mechanism that
20 supports investment and operational equity.

1 **Q. Provide an example of the difference in what a customer would pay under Consumers’**
2 **proposal as compared to your recommendation.**

3 A. Consider an illustrative data center customer with a contracted demand of 100 MW and a
4 typical load factor of 85 percent. Under Consumers Energy’s Large General Service
5 Primary Demand Rate, an estimate of the customer’s annual cost for electric service would
6 be approximately \$25.4 million.

7 Under Consumers’ proposal, which requires collateral equal to 15 years of expected
8 revenues, this customer would be obligated to provide over \$380 million in collateral to
9 the utility. Assuming Consumer’s pre-tax weighted average costs of capital (“WACC”) of
10 7.85 percent as the discount rate over the 15-year term, with equal monthly credits applied
11 to the customer’s account, the net present cost of this collateral commitment would be
12 approximately \$150 million.

13 By contrast, under a more proportionate and risk-aligned collateral framework,
14 such as a requirement equal to 2 years of expected revenues, the same customer would
15 provide \$51 million in collateral. Using the same WACC and assuming the collateral is
16 returned in equal monthly installments over a 10-year period, the net present cost to the
17 customer would be approximately \$24 million.

18 This example of collateral posted in cash form, held by the utility without accruing
19 interest, underscores the significant financial burden imposed by the proposed collateral
20 structure. This highlights the need for a more balanced and scalable approach to credit
21 requirements. While cash collateral imposes an immediate and direct strain on a customer’s
22 liquidity, alternative forms of collateral—such as letters of credit or performance bonds—
23 can provide equivalent financial security with significantly less impact on cash flow.

1 **Part II: Clean Energy**

2 **Section I: Clean energy proposals by party**

3 **Q. What are the clean energy obligations relevant to electric utilities in the state of**
4 **Michigan?**

5 A. Michigan requires electric utilities to meet escalating clean energy targets under the
6 Renewable Energy Standard (“RES”) and Clean Energy Standard (“CES”), as established
7 by Public Act 235 of 2023.

8 i) RES: Utilities must source at least 15 percent of electricity from renewable resources
9 through 2029, increasing to 50 percent by 2030 and 60 percent by 2035. Eligible
10 sources include wind, solar, hydroelectric, and certain biomass. Compliance is tracked
11 through Renewable Energy Credits (“RECs”), with one REC equal to one megawatt-
12 hour of renewable generation.

13 ii) CES: Utilities must achieve 80 percent clean energy by 2035 and 100 percent by 2040.
14 Clean energy includes both renewable and non-emitting sources, such as nuclear power
15 and natural gas with carbon capture.

16 These standards support the state’s broader climate goals to reduce greenhouse gas
17 emissions and advance sustainable energy development.

18 **Q. Is clean or renewable energy important to data center customers?**

19 A. Clean or renewable energy is important to some data center customers, particularly those
20 with environmental, social, and governance (ESG) commitments or sustainability goals.
21 However, it is not a universal priority. For many data centers, especially those focused on
22 commercial deployment, the primary concern is time to market, i.e. securing reliable power
23 quickly to begin operations.

1 While clean energy may factor into long-term strategy or branding, immediate
2 power availability and scalability often take precedence. It remains important to support
3 clean energy development and offer flexible participation options for large load customers.
4 These may include on-site generation, third-party power purchase agreements, and access
5 to green tariff programs. Such flexibility enables progress toward renewable goals while
6 accommodating varying operational needs.

7 **Q. Please summarize the clean energy requirement proposals by parties in this**
8 **proceeding.**

9 A. Table 4 provides a summary of each party's position on clean energy requirements for data
10 center customers.

1

Table 4: Clean Energy Requirements Proposal by Party

Party	Clean Procurement Requirement	Energy	Minimum Renewable	%	Mechanism Proposed
Attorney General (M. Deupree) ⁴	Require data centers to contract for renewable energy to meet PA 235 obligations and tax exemption requirements		≥60% renewables	from	Contractual mandate for 60% renewable energy (within MISO Zone 7) + support for 90% clean energy for tax exemptions
Clean Energy Organizations (S. Siddique) ⁵	Require data centers to participate in clean energy programs via CESP and VGPs		60% by 2035		Voluntary Green Pricing (VGP), customer CESP, prioritization of low-grid-impact projects
MEIU (J. Albers) ⁶	Offer flexible clean energy sourcing options through utility and third-party solutions		Not specified		Competitive RFPs, behind-the-meter resources, demand flexibility, grid-enhancing tech, and 50/50 utility vs. 3rd-party ownership
MNSC ⁷ (D. Jester)	Require data centers to meet 90% clean energy for tax exemption requirements and 60% renewables through bespoke portfolios tied to long-term contracts		90% energy; renewable	clean 60%	Voluntary Green Pricing, long-term clean energy contracts, on-site generation; bespoke clean resource portfolios per customer

2

3 **Q. What is the Attorney General's clean energy proposal?**

4 A. The Attorney General recommends incorporating firm clean energy requirements into
5 Consumers Energy's proposed tariff for large-load data centers under Rate GPD. The
6 proposal includes a requirement for data center customers to procure at least 60 percent of

⁴ Deupree Direct at 12-13.

⁵ Siddique Direct at 13-14.

⁶ Albers Direct at 14-17.

⁷ Jester Direct at 10-11, 14-15, 18, 21-22.

1 their incremental energy use from renewable sources located within MISO Zone 7, in
2 alignment with Michigan's Renewable Energy Standard target of 60 percent by 2035.

3 Additionally, to qualify for sales and use tax exemptions under MCL 205.54ee, data
4 center customers would be required to demonstrate compliance with the statute's 90
5 percent clean energy threshold. These provisions are intended to ensure compliance with
6 state law and avoid cost-shifting by requiring customers to procure renewable energy
7 directly for their load.

8 **Q. What is your position on the Attorney General's proposal?**

9 A. The requirement that data center customers meet the 90 percent clean energy threshold to
10 qualify for tax exemptions under MCL 205.54ee is reasonable and appears to be consistent
11 with state law. Regarding the proposed 60 percent renewable energy target, achieving this
12 goal may be feasible provided there are no constraints related to time to market. However,
13 prior to committing large-load customers to this accelerated target, it would be prudent to
14 obtain further clarity on the implementation framework, associated timelines, and
15 operational implications. A comprehensive understanding of these factors is essential to
16 ensure informed decision-making and to avoid unintended impacts on market dynamics
17 and project viability.

18 **Q. What is the Clean Energy Organizations' clean energy proposal?**

19 A. The Clean Energy Organizations propose a clean energy framework to ensure that large
20 data center customers comply with statutory requirements while limiting cost impacts on
21 other utility customers. They recommend that data centers seeking sales and use tax
22 exemptions under Public Acts 207 and 181 of 2024 be required to procure at least 90
23 percent of their electricity from clean energy sources, as defined in Section 51 of the Clean

1 and Renewable Energy and Energy Waste Reduction Act. Additionally, they propose that
2 all new data center load be served by a portfolio that includes at least 60 percent renewable
3 energy. To meet these targets, they suggest Consumers Energy offer options such as
4 voluntary green pricing, long-term power purchase agreements, and on-site renewable
5 generation, tailored to each data center's load profile.

6 **Q. What is your position on the Clean Energy Organizations' proposal?**

7 A. My position is consistent with my view on the Attorney General's proposal. I support the
8 requirement that data center customers meet the 90 percent clean energy threshold to
9 qualify for sales and use tax exemptions, as it is a reasonable standard and appears to be
10 consistent with state law.

11 With respect to the proposed 60 percent renewable energy procurement
12 requirement, achieving this target could be feasible if there are no constraints on time to
13 market. However, it would be premature to impose this standard on data center customers
14 without first obtaining greater clarity on how the requirement would be implemented,
15 enforced, and integrated into existing planning and procurement processes.

16 **Q. What is the MEIU's clean energy proposal?**

17 A. MEIU proposes a clean energy framework that emphasizes customer flexibility,
18 innovation, and market-based procurement. Instead of imposing fixed renewable energy
19 procurement requirements, MEIU recommends offering data center customers a range of
20 clean energy options. These include behind-the-meter solutions such as on-site solar and
21 battery storage, participation in demand-side flexibility programs, and deployment of grid-
22 enhancing technologies.

1 MEIU also proposes allowing customers to reduce their effective contract capacity,
2 which determines minimum demand charges, if they commit to serving part of their load
3 through on-site resources. In addition, customers should be permitted to enter into third-
4 party power purchase agreements (“PPAs”) without being required to participate in
5 Consumers Energy’s Voluntary Green Pricing (“VGP”) program.

6 To meet any remaining capacity needs, MEIU recommends that Consumers Energy
7 conduct competitive all-source requests for proposals (“RFPs”), evaluated by an
8 independent administrator to ensure fairness and transparency. Customers would also have
9 the option to pay a premium to prioritize certain resource types, such as solar or storage, in
10 Consumers’ resource planning.

11 **Q. What is your position on MEIU’s proposal?**

12 A. I support MEIU’s clean energy proposal. Allowing customers to reduce their effective
13 contract capacity in exchange for deploying on-site resources promotes flexibility and
14 recognizes distributed energy investments. The recommendation to permit third-party
15 PPAs outside of the VGP program enhances market access and customer choice.

16 Requiring Consumers Energy to issue competitive, independently evaluated all-
17 source RFPs for unmet needs improves transparency and cost control. Providing customers
18 the option to pay a premium for prioritizing specific resource types further supports
19 alignment between sustainability goals and utility planning. Overall, MEIU’s proposal
20 offers a balanced and practical framework for advancing clean energy while maintaining
21 customer choice and protecting ratepayers.

1 **Q. What is the MNSC' clean energy proposal?**

2 A. MNSC's proposal is similar to the Attorney General's proposal which includes a
3 requirement for data center customers to procure at least 60 percent of their incremental
4 energy use from renewable sources and a requirement to demonstrate compliance with the
5 statute's 90 percent clean energy threshold for sales and use tax exemptions.

6 **Q. What is your position on the MNSC's proposal?**

7 A. As stated previously, the requirement that data center customers meet the 90 percent clean
8 energy threshold to qualify for tax exemptions under MCL 205.54ee is reasonable and
9 appears to be consistent with state law. Regarding the proposed 60 percent renewable
10 energy target, achieving this goal may be feasible provided there are no constraints related
11 to time to market. However, prior to committing large-load customers to this accelerated
12 target, it would be prudent to obtain further clarity on the implementation framework,
13 associated timelines, and operational implications. A comprehensive understanding of
14 these factors is essential to ensure informed decision-making and to avoid unintended
15 impacts on market dynamics and project viability.

16 **Section II: Recommendation to the Commission**

17 **Q. What is your clean energy recommendation to the Commission?**

18 A. I recommend that the Commission adopt a balanced and pragmatic approach that
19 incorporates the most reasonable and flexible elements from the proposals submitted by
20 various stakeholders. Specifically, I support policies that allow data center customers to
21 reduce their effective contract capacity through investments in on-site renewable
22 generation. I also support enabling third-party PPAs outside of the VGP program, requiring
23 competitive all-source RFPs evaluated by an independent administrator, and providing

1 customers the option to pay a premium to prioritize specific renewable resource types.
2 These mechanisms, as proposed by MEIU, offer essential flexibility and are well aligned
3 with the operational and procurement needs of large-load customers.

4 With respect to the proposed 60 percent renewable energy procurement
5 requirement, I am not in a position to fully support its adoption at this time. While the target
6 may be technically achievable and consistent with the clean energy goals of many large-
7 load customers, there is currently insufficient clarity regarding how such a requirement
8 would impact project development timelines. Time to market is a primary concern for data
9 centers. If not carefully structured, accelerated renewable mandates could introduce delays,
10 uncertainty, or additional barriers that are incompatible with the rapid deployment
11 schedules typical of data center development.

12 Accordingly, I recommend that the Commission direct Consumers Energy to
13 conduct further analysis and engage with stakeholders to evaluate the feasibility,
14 implementation pathways, and timing of such a target. The results of this process should
15 be reviewed by the Commission at a later date before any binding commitments are
16 established.

17 Finally, any clean energy requirements or associated cost allocation mechanisms
18 adopted by the Commission should be applied equitably across all large-load customers. A
19 consistent, technology-neutral policy framework is essential to ensure regulatory fairness,
20 encourage continued investment, and support Michigan's broader transition to a clean
21 energy economy.

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

23 **A.** Yes.

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the Application of)
Consumers Energy Company for *Ex Parte*)
Approval of Certain Amendments to Rate)
GPD)

Case No. U-21859

PROOF OF SERVICE

On August 4, 2025, an electronic copy of the foregoing was served on the following via email:

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The statements above are true to the best of my knowledge, information and belief.

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