



**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Rulemaking to Modernize
the Electric Grid for a High Distributed
Energy Resources Future.

Rulemaking 21-06-017

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**KNOWN LOAD METRICS AND NARRATIVE OF PACIFIC
GAS AND ELECTRIC COMPANY (U 39 E)**

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Dated: September 15, 2023

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

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Pursuant to the May 19, 2023 *Administrative Law Judge’s Ruling on Recommended Reforms for the 2023 Distribution Investment Deferral Framework Process, the Partnership Pilot and the Standard-Offer-Contract Pilot (DIDF Ruling)*¹, and the August 11, 2023 *Email Ruling Granting PG&E Motion for Extension of Time and Tentatively Cancelling Annual Primer Workshop (Extension Ruling)*, Pacific Gas and Electric Company (PG&E) provides the known load metrics and narrative to accompany the known load data that was provided in Appendix G of PG&E’s 2023 Distribution Deferral Opportunity Report (DDOR), filed on August 15, 2023. The known loads metric and narrative are included as Attachment A.

Respectfully submitted,

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¹ See p. 13: “Utilities are directed to provide both the metrics and the narrative as described in pages 9 to 20 and 31 to 32 of the IPE Report. ... Utilities shall provide this information in their August 2023 GNA/DDOR filings.”

ATTACHMENT A

Appendix H – Known Load Metrics and Narrative

PG&E’s known load data, as required by section 2.4 of the 2023 DIDF Reform Ruling,¹ was provided in Appendix G of the 2023 Distribution Deferral Opportunity Report (DDOR).² The customer load applications were used as known load adjustments that were used to generate the forecasts used in the 2023 Grid Needs Assessment (GNA). PG&E was granted an extension to September 15, 2023,³ to report the known load metrics as seen in the March 2023 Independent Professional Engineer’s (IPE’s) Post Distribution Planning Advisory Group (DPAG) report⁴ and the narrative, to comply with the requirements from Section 2.5 of the DIDF Reform Order.⁵

PG&E is filing this narrative summary report along with the metrics. As stated in the Section 5 of the May 2023 reform, the purpose of this narrative and metrics listed below is to provide how PG&E is tracking the known loads, and whether they materialize or were deferred, cancelled, or modified. PG&E calculated the metrics using both the published 2022 DIDF cycle known load data and the 2023 DIDF cycle known load data. The known load metrics listed below were recommended by the IPE.

1. Total of all known loads (MW or MVA and number of known loads)
2. Total of all known loads by category and type (MW or MVA and number of known loads)
3. Annual Change (relative to the previous Tracking Data submitted by the utility) in total of all known loads (MW or MVA, % and number of known loads)

¹ May 19, 2023, Administrative Law Judge’s Ruling on Recommended Reforms for the 2023 Distribution Investment Deferral Framework Process, The Partnership Pilot and The Standard Offer-Contract Pilot, p. 9.

² PG&E’s “Appendix G: Known load project tracking data” in 2023 DDOR (August 15th, 2023) and “Appendix J: known load project tracking data” in 2022 DDOR (Supplemental filing – Oct 15th, 2022) filing has unit of the load amount erroneously labeled as MVA instead of MW. No errors in the actual data itself

³ See August 11, 2023, Email Ruling in R.21-06-017.

⁴ 2023 Independent Professional Engineer, Final IPE Post DPAG Report, March 29, 2023, p.31

⁵ May 19, 2023, Administrative Law Judge’s Ruling on Recommended Reforms for the 2023 Distribution Investment Deferral Framework Process, The Partnership Pilot and The Standard Offer-Contract Pilot, Section 2.5, p. 9

4. Annual Change (relative to the previous Tracking Data submitted by the utility) in total of all known loads and also broken out by category and type (MW or MVA, % and number of known loads)
5. Service Amount Deferred (MW or MVA) (MW or MVA, %)
6. Service Deferral Rate Total (%)
7. Service Deferral Rate by Category and type (%)
8. Cancellation Rate Total (%)
9. Cancellation Rate by category and type (%)
10. Service Request Amount Increase Rate Total and Average Amount (% , MW or MVA)
11. Service Request Amount Increase Rate by category/type and Average Amount (% , MW or MVA)
12. Service Request Amount Decrease Rate Total and Average Amount (% , MW or MVA)
13. Service Request Amount Decrease Rate by category/type and Average Amount (% , MW or MVA)
14. Service Deferral Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load.
15. Service Cancellation Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category or known load.
16. Service Reduction Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category or known load.

A uniform list of known load types and categories were jointly developed by the Investor-Owned Utilities (IOUs). In PG&E's 2023 DDOR, the list consists of 6 customer types and 15 customer categories as shown in [Table 1](#).⁶ [Table 2](#) shows PG&E's categorization of the known load types as load sectors as reported in the 2022 DDOR.

⁶ PG&E _20230815-DDOR Report Confidential, Table 27, pp. 44

Table 1: 2023 Known Load Types and Categories

Type	Category
Residential	Home Construction
Residential	Other
Commercial	Education
Commercial	Health Care
Commercial	Business
Commercial	Other
Industrial	Plants
Industrial	Facilities
Industrial	Cultivation
Industrial	Other
Transportation	LD EV
Transportation	MD/HD EV
Agriculture	Agriculture
Energy Storage	Retail
Energy Storage	Wholesale

Table 2: 2022 PG&E Known Load Types and Categories

Category	Sector
N/A	New Residential
N/A	New Commercial
N/A	New Industrial
N/A	New Agriculture
N/A	New Cannabis
N/A	EV
N/A	Special

Note: 2022 DIDF cycle known load data's sector field was not aligned with the 2023 DIDF cycle's known load type and/or category categorization. For this reason, metrics concerning change from the previous DIDF cycle are reported by known load type only. 2022 DIDF cycle known load data category was mapped as closely as possible to 2023 DIDF cycle's known load type as seen in [Table 3](#). This mapping was used to report changes between 2022 and 2023 known load.

Table 3: 2022 PG&E Known Load Sectors mapped to 2023 Customer types

2022 Known Load Sector	2023 Known Load Type
New Residential	Residential
New Commercial	Commercial
New Industrial	Industrial
New Agriculture	Agriculture
New Cannabis	Industrial
EV	Transportation
Special	Industrial

The 16 known load metrics methodology and results are presented below using the 2023 Known Load Types. The aggregated metrics are calculated for each of the forecast years through 2035 of the distribution planning process where applicable.

1. Total of all known loads (MW, and count of known loads)

The total and count of all known loads is calculated by adding them for each forecast year* using the known load data reported in Appendix G of PG&E’s 2023 DDOR.

Table 4: Total of all known loads (MW and count)

Forecast Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Sum of Load Amount (MW)	1669.8	671.6	392.2	202.7	148.1	47.0	32.3	6.3	6.6	0.5	1.5	4.2	6.9
Count of known Loads (#)	3086	717	284	119	75	29	15	9	8	5	6	6	5

*The sum and count of load amount are incremental growth

2. Total of all known loads by category and type (MW or MVA, and number of known loads)

The total and count of all known loads is calculated by adding them for each forecast year* using the known load data reported in Appendix G of PG&E's 2023 DDOR and broken down by type and category.

Table 5: Total of all known loads by type and category (MW)

Forecast Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Agriculture	109.83	15.59	7.26	2.23	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Agriculture	109.83	15.59	7.26	2.23	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	376.46	129.01	84.50	43.77	57.90	15.63	16.86	1.20	3.20	0.20	0.20	0.20	6.85
Business	376.46	129.01	84.50	43.77	57.90	15.63	16.86	1.20	3.20	0.20	0.20	0.20	6.85
Energy Storage	11.28	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Retail	11.28	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial	463.11	227.30	124.42	41.75	47.80	5.74	1.99	0.24	2.24	0.24	1.30	0.24	0.00
Cultivation	143.16	79.98	33.25	3.76	28.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Facilities	319.92	147.32	91.17	37.99	19.57	5.74	1.99	0.24	2.24	0.24	1.30	0.24	0.00
Other	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Residential	221.30	72.44	35.28	9.86	0.30	8.75	1.88	3.68	1.10	0.00	0.00	0.00	0.00
Home Construction	221.30	72.44	35.28	9.86	0.30	8.75	1.88	3.68	1.10	0.00	0.00	0.00	0.00
Transportation	487.87	225.75	140.76	105.11	38.69	16.92	11.58	1.22	0.04	0.04	0.02	3.72	0.08
LD EV	29.71	7.76	2.00	1.85	0.77	0.02	0.02	0.02	0.04	0.04	0.02	0.02	0.08
MD/HD EV	458.16	217.99	138.76	103.26	37.92	16.90	11.56	1.20	0.00	0.00	0.00	3.70	0.00

*The sum and count of load amount are incremental growth

Table 6: Total of all known loads by type and category (Count)

Forecast Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Agriculture	655	47	5	3	4	0	0	0	0	0	0	0	0
Agriculture	655	47	5	3	4	0	0	0	0	0	0	0	0
Commercial	688	149	58	26	17	13	7	2	2	1	1	1	4
Business	688	149	58	26	17	13	7	2	2	1	1	1	4
Energy Storage	11	1	0	0	0	0	0	0	0	0	0	0	0
Retail	11	1	0	0	0	0	0	0	0	0	0	0	0
Industrial	488	160	92	24	31	6	3	2	3	2	3	2	0
Cultivation	159	70	38	4	18	0	0	0	0	0	0	0	0
Facilities	328	90	54	20	13	6	3	2	3	2	3	2	0
Other	1	0	0	0	0	0	0	0	0	0	0	0	0
Residential	602	192	67	12	1	4	1	2	1	0	0	0	0
Home Construction	602	192	67	12	1	4	1	2	1	0	0	0	0
Transportation	642	168	62	54	22	6	4	3	2	2	2	3	1
LD EV	64	17	8	9	9	2	2	2	2	2	2	2	1
MD/HD EV	578	151	54	45	13	4	2	1	0	0	0	1	0

*The sum and count of load amount are incremental growth

3. Annual change (relative to the previous Tracking Data submitted by the utility) in total of all known loads (MW or MVA, % and number of known loads)

Annual change in total load amount (MW) and count of known loads provided for each forecast year is the difference between the known load reported in 2022 and 2023.

Table 7: Total annual change in known load amount (MW)

Forecast Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
2022 Load Amount (MW)		492.73	275.51	186.38	59.01	29.51	20.13	4.25	2.86	6.20	0.00	0.00	3.74	6.77
2023 Load Amount (MW)		1669.85	671.59	392.22	202.72	148.09	47.04	32.31	6.34	6.58	0.48	1.52	4.16	6.93
Annual Change (MW)		1177.12	396.08	205.84	143.71	118.58	26.91	28.06	3.48	0.38	0.48	1.52	0.42	0.16
Annual Change (%)		339%	244%	210%	344%	502%	234%	760%	221%	106%	N/A	N/A	111%	102%

Table 8: Total annual change in known load amount (Count)

Forecast Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
2022 known loads (#)		527	219	101	43	20	14	4	3	4	0	0	1	2
2023 known loads (#)		3086	717	284	119	75	29	15	9	8	5	6	6	5
Annual Change (#)		2559	498	183	76	55	15	11	6	4	5	6	5	3
Annual Change (%)		586%	327%	281%	277%	375%	207%	375%	300%	200%	N/A	N/A	600%	250%

4. Annual Change (relative to the previous Tracking Data submitted by the utility) in total of all known loads and broken out by category and type (MW or MVA, % and number of known loads)

Annual change in total load amount (MW) and count of known loads provided for each forecast year is the difference between the known load reported in 2022 and 2023 and broken down by load type.⁷

Table 9: Annual Change in Total MW across all Known Loads by Type

Forecast Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Agriculture													
2022 Known Load Total (MW)	18.49	7.36	0.00	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023 Known Load Total (MW)	109.83	15.59	7.26	2.23	3.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Change (MW)	91.34	8.23	7.26	2.23	1.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Change (%)	594%	212%	0%	0%	168%	0%	0%	0%	0%	0%	0%	0%	0%
Commercial													
2022 Known Load Total (MW)	143.47	101.42	67.48	38.57	13.56	12.65	3.50	1.01	3.03	0.00	0.00	0.00	3.43
2023 Known Load Total (MW)	376.46	129.01	84.50	43.77	57.90	15.63	16.86	1.20	3.20	0.20	0.20	0.20	6.85
Annual Change (MW)	232.99	27.59	17.02	5.20	44.34	2.98	13.36	0.19	0.17	0.20	0.20	0.20	3.42
Annual Change (%)	262%	127%	125%	113%	427%	124%	481%	119%	106%	0%	0%	0%	199%
Energy Storage													
2022 Known Load Total (MW)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2023 Known Load Total (MW)	11.28	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Change (MW)	11.28	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual Change (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Industrial													
2022 Known Load Total (MW)	198.59	94.69	61.51	7.41	11.07	3.94	0.75	0.00	2.02	0.00	0.00	0.00	0.00
2023 Known Load Total (MW)	463.11	227.30	124.42	41.75	47.80	5.74	1.99	0.24	2.24	0.24	1.30	0.24	0.00
Annual Change (MW)	264.52	132.61	62.91	34.34	36.73	1.80	1.24	0.24	0.22	0.24	1.30	0.24	0.00
Annual Change (%)	233%	240%	202%	564%	432%	146%	265%	0%	111%	0%	0%	0%	0%
Residential													
2022 Known Load Total (MW)	64.89	23.01	11.46	8.22	1.30	1.22	0.00	1.82	1.11	0.00	0.00	0.00	3.33
2023 Known Load Total (MW)	221.30	72.44	35.28	9.86	0.30	8.75	1.88	3.68	1.10	0.00	0.00	0.00	0.00
Annual Change (MW)	156.41	49.43	23.82	1.64	-1.00	7.53	1.88	1.86	-0.01	0.00	0.00	0.00	-3.33
Annual Change (%)	341%	315%	308%	120%	23%	716%	0%	202%	99%	0%	0%	0%	0%
Transportation													
2022 Known Load Total (MW)	67.29	49.04	45.92	4.81	1.55	2.31	0.00	0.04	0.03	0.00	0.00	3.74	0.00
2023 Known Load Total (MW)	487.87	225.75	140.76	105.11	38.69	16.92	11.58	1.22	0.04	0.04	0.02	3.72	0.08
Annual Change (MW)	420.58	176.71	94.84	100.30	37.14	14.61	11.58	1.18	0.01	0.04	0.02	-0.02	0.08
Annual Change (%)	725%	460%	307%	2183%	2489%	733%	0%	3355%	120%	0%	0%	100%	0%

⁷ Note: 2022 DIDF cycle known load data's sector field was not aligned with the 2023 DIDF cycle's known load type and/or category categorization. For this reason, metrics concerning change from the previous DIDF cycle are reported by known load type only. 2022 DIDF cycle known load data category was mapped as closely as possible to 2023 DIDF cycle's known load type. Further granular categorization of the 2022 DIDF cycle data into category would not be accurate and was therefore not reported.

Table 10: Annual change in count of known loads by type

Forecast Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Agriculture													
2022 Known Load Total (#)	60	15	0	0	1	0	0	0	0	0	0	0	0
2023 Known Load Total (#)	655	47	5	3	4	0	0	0	0	0	0	0	0
Annual Change (#)	595	32	5	3	3	0	0	0	0	0	0	0	0
Annual Change (%)	1092%	313%	0%	0%	400%	0%	0%	0%	0%	0%	0%	0%	0%
Commercial													
2022 Known Load Total (#)	126	48	28	17	9	6	3	1	1	0	0	0	1
2023 Known Load Total (#)	688	149	58	26	17	13	7	2	2	1	1	1	4
Annual Change (#)	562	101	30	9	8	7	4	1	1	1	1	1	3
Annual Change (%)	546%	310%	207%	153%	189%	217%	233%	200%	200%	0%	0%	0%	400%
Energy Storage													
2022 Known Load Total (#)	0	0	0	0	0	0	0	0	0	0	0	0	0
2023 Known Load Total (#)	11	1	0	0	0	0	0	0	0	0	0	0	0
Annual Change (#)	11	1	0	0	0	0	0	0	0	0	0	0	0
Annual Change (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Industrial													
2022 Known Load Total (#)	107	74	33	5	5	3	1	0	1	0	0	0	0
2023 Known Load Total (#)	488	160	92	24	31	6	3	2	3	2	3	2	0
Annual Change (#)	381	86	59	19	26	3	2	2	2	2	3	2	0
Annual Change (%)	456%	216%	279%	480%	620%	200%	300%	0%	300%	0%	0%	0%	0%
Residential													
2022 Known Load Total (#)	161	53	22	11	2	2	0	1	1	0	0	0	1
2023 Known Load Total (#)	602	192	67	12	1	4	1	2	1	0	0	0	0
Annual Change (#)	441	139	45	1	-1	2	1	1	0	0	0	0	-1
Annual Change (%)	374%	362%	305%	109%	50%	200%	0%	200%	100%	0%	0%	0%	0%
Transportation													
2022 Known Load Total (#)	73	29	18	10	3	3	0	1	1	0	0	1	0
2023 Known Load Total (#)	642	168	62	54	22	6	4	3	2	2	2	3	1
Annual Change (#)	569	139	44	44	19	3	4	2	1	2	2	2	1
Annual Change (%)	879%	579%	344%	540%	733%	200%	0%	300%	200%	0%	0%	300%	0%

5. Service Amount Deferred (MW or MVA) (MW or MVA, %)

PG&E interpreted deferred as the amount of known load (MW) that appear in both 2022 and 2023 known load data, and that has a later expected in-service date in 2023 DIDF cycle. For example: If the “2023 DIDF Cycle Expected In-Service Date” was **2022** and “2023 DIDF Cycle Expected In-Service Date” is **2023** then this known load is considered a deferred load. The total amount of all deferred known loads (MW) is calculated by adding 2023 DIDF Cycle Load Amount (MW). The proportion (%) of load amount deferred relative to the aggregate load amount that appear in both 2022 and 2023 DIDF cycle reported in 2022 DIDF cycle is shown below.

Table 11: Service Amount Deferred (MW or MVA, %)

Total Deferred Load Amount (MW) reported in 2023	1114.23
Total Load Amt from Known Loads in Both 2022 DIDF and 2023 DIDF Cycles (MW) reported in 2022	1696.01
Proportion	66%

6. Service Deferral Rate Total (%)

Service deferral rate is interpreted as the count of deferred known loads relative to the total amount of known loads (total known loads rolled over from 2022) present in both the 2022 known load data and 2023 known load data.

Table 12: Service Deferral Rate Total (%)

Count of Deferred Known Loads (#)	1590
Count of Known Loads in Both 2022 and 2023 Cycles (#)	2061
Service Deferral Rate	77%

7. Service Deferral Rate by Category and type (%)

Service deferral rate is interpreted as the count of deferred known loads relative to the total amount of known loads present in both the 2022 known load data and 2023 known load data and broken down by load type.

Table 13: Service Deferral Rate by Category⁸ and type (%)

Type	Count of Deferred Known Loads (#)	Count of Known Loads in Both 2022 and 2023 Cycles (Rolled Over, #)	Service Deferral Rate
Agriculture	259	312	83%
Commercial	365	486	75%
Energy Storage	1	1	100%
Industrial	363	461	79%
Residential	347	491	71%
Transportation	255	310	82%

⁸ Note: 2022 DIDF cycle known load data's sector field was not aligned with the 2023 DIDF cycle's known load type and/or category categorization. For this reason, metrics concerning change from the previous DIDF cycle are reported by known load type only. 2022 DIDF cycle known load data category was mapped as closely as possible to 2023 DIDF cycle's known load type. Further granular categorization of the 2022 DIDF cycle data into category would not be accurate and was therefore not reported.

8. Cancellation Rate Total (%)

Cancellation Rate Total (%) is reported as the total number of known loads with a “Request Canceled” status reported in 2023 relative to the total amount of known loads reported in 2023 known load data.

Table 14: Cancellation Rate Total (%)

Total number of known loads with status "Request Canceled" reported in 2023	16
Total number of known loads reported in 2023	4369
Total Cancellation Rate	0.37%

9. Cancellation Rate by category and type (%)

Cancellation Rate Total (%) is reported as the total number of known loads with a “Request Canceled” status reported in 2023 relative to the total amount of known loads reported in 2023 known load data and broken down by load type and category.

Table 15: Cancellation Rate by type and category (%)

Cancellation Rate by Category	Cancellations (#)	Cancellation Rate
Agriculture	0	0%
<i>Agriculture</i>	0	0%
Commercial	2	13%
<i>Business</i>	2	13%
Energy Storage	0	0%
<i>Retail</i>	0	0%
Industrial	8	50%
<i>Cultivation</i>	6	38%
<i>Facilities</i>	2	13%
<i>Other</i>	0	0%
Residential	1	6%
<i>Home Construction</i>	1	6%
Transportation	5	31%
<i>LD EV</i>	0	0%
<i>MD/HD EV</i>	5	31%

10. Service Request Amount Increase Rate Total and Average Amount (% , MW or MVA)

Service request amount increase rate is interpreted as reporting the aggregate and average load amount from known loads reported in the 2022 DIDF cycle that are reported in the 2023 DIDF cycle for the same unique identifier with an increased load amount. The proportion of load amount from known loads requesting an increase in load from the 2022 DIDF cycle relative to the aggregate load amount of known loads reported in both 2022 and 2023 DIDF cycles is reported as the total service request amount increase rate.

Table 16: Service Request amount increase rate (Total and Average amount (% , MW))

Total Requested Increase Amt (MW)	65.90
Total Amt from Known Loads in Both 2022 and 2023 Cycles (MW)	1696.13
Service Request Amount Increase Rate Total	4%
Number of Known Loads with Increases	156
Total number of Known loads in both 2022 and 2023	2061
Proportion of Total Projects (relative to # rolled from 2022 to 2023)	8%
Average Requested Increase Amt (MVA)	0.42

11. Service Request Amount Increase Rate by category/type and Average Amount (% , MW or MVA)

The service request amount increase is interpreted as reporting the aggregate and average load amount from known loads reported in the 2022 DIDF cycle that are reported in the 2023 DIDF cycle with an increased load amount broken down by load type. The proportion of load amount from known loads requesting an increase in load from the 2022 DIDF cycle relative to the aggregate load amount of known loads reported in both 2022 and 2023 DIDF cycles is reported as the service request amount increase rate, again broken down by load type⁹.

⁹ Note: 2022 DIDF cycle known load data's sector field was not aligned with the 2023 DIDF cycle's known load type and/or category categorization. For this reason, metrics concerning change from the previous DIDF cycle are reported by known load type only. 2022 DIDF cycle known load data category was mapped as closely as possible to 2023 DIDF cycle's known load type. Further granular categorization of the 2022 DIDF cycle data into category would not be accurate and was therefore not reported.

Table 17: Service Request amount increase rate by type (Total and Average amount (% , MW))

Type	Total Requested Increase Amt (MW)	Total Amt from Known Loads in Both 2022 and 2023 Cycles (MW)	Service Request Amount Increase Rate	Number of Known Loads with Increases	Total number of Known loads in both 2022 and 2023	Average Requested Increase Amt (MW)
Agriculture	2.10	82.89	3%	21	312	0.10
Commercial	9.34	481.76	2%	22	486	0.42
Industrial	22.69	576.34	4%	47	461	0.48
Residential	4.79	229.17	2%	37	491	0.13
Transportation	26.98	323.95	8%	29	310	0.93

12. Service Request Amount Decrease Rate Total and Average Amount (% , MW or MVA)

The service request amount decrease is interpreted as reporting the aggregate and average load amount from known loads reported in both the 2022 DIDF cycle and 2023 DIDF cycle for the same unique identifier with a decreased load amount. The proportion of load amount from known loads requesting a decrease in load from the 2022 DIDF cycle relative to the aggregate load amount of known loads reported in both 2022 and 2023 DIDF cycles is reported as the total service request amount decrease rate.

Table 18: Service Request amount decrease rate (Total and Average amount (% , MW))

Total Requested Decrease Amt (MW)	-235.51
Total Amt from Known Loads in Both 2022 and 2023 Cycles (MW)	1696.13
Service Request Amount Decrease Rate Total	-14%
Number of Known Loads with Decreases	1139
Total number of Known loads in both 2022 and 2023	2061
Proportion of Total Known Loads (relative to # rolled from 2022 to 2023)	55%
Average Requested Decrease Amt (MW)	-0.21

13. Service Request Amount Decrease Rate by category/type and Average Amount (% , MW or MVA)

The service request amount decrease is interpreted as reporting the aggregate and average load amount from known loads reported in the 2022 DIDF cycle that are

reported in the 2023 DIFD cycle with a decreased load amount broken down by load type. The proportion of load amount from known loads requesting a decrease in load from the 2022 DIFD cycle relative to the aggregate load amount of known loads reported in both 2022 and 2023 DIFD cycles is reported as the service request amount decrease rate, again broken down by load type.¹⁰

Table 19: Service Request amount decrease rate by type (Total and Average amount (% , MW))

Type	Total Requested Decrease Amt (MW)	Total Amt from Known Loads in Both 2022 and 2023 Cycles (MW)	Service Request Amount Decrease Rate Total	Number of Known Loads with Decreases	Total number of Known loads in both 2022 and 2023	Proportion of Total Known Loads (relative to # rolled from 2022 to 2023)	Average Requested Decrease Amt (MW)
Agriculture	-13.09	82.89	-16%	84	312	27%	-0.16
Commercial	-73.84	481.76	-15%	298	486	61%	-0.25
Energy Storage	-0.02	2.02	-1%	1	1	100%	-0.02
Industrial	-79.38	576.34	-14%	323	461	70%	-0.25
Residential	-37.12	229.17	-16%	232	491	47%	-0.16
Transportation	-32.06	323.95	-10%	201	310	65%	-0.16
Total	-235.51	1696.13	-14%	1139	2061	55%	-0.21

14. Service Deferral Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load.

Service deferral rate in first, second, third and fourth year after initial inclusion as known load is interpreted as a matrix with rows and columns representing the 2023 and 2022 DIFD cycle inclusion dates respectively of deferred known loads. The counts of known loads deferred from the 2022 to 2023 DIFD cycle dates in the matrix are normalized over the total amount of deferred projects in each type. The matrix is intended to portray overall trends in known load deferrals from the 2022 to 2023 DIFD cycles. These matrices are organized by customer type. Example:

93.82% of deferred Agricultural known loads have been deferred from 2022 to 2023.

¹⁰ Note: 2022 DIFD cycle known load data's sector field was not aligned with the 2023 DIFD cycle's known load type and/or category categorization. For this reason, metrics concerning change from the previous DIFD cycle are reported by known load type only. 2022 DIFD cycle known load data category was mapped as closely as possible to 2023 DIFD cycle's known load type. Further granular categorization of the 2022 DIFD cycle data into category would not be accurate and was therefore not reported.

Table 20: Service Deferral Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load

Agriculture	2022 DIDF Cycle Expected In-Service Date			
	Year	2022	2023	2024
2023 DIDF Cycle Expected In-Service Date	2023	93.82%	0.00%	0.00%
	2024	4.25%	1.16%	0.00%
	2025	0.00%	0.00%	0.77%

Commercial	2022 DIDF Cycle Expected In-Service Date						
	Year	2022	2023	2024	2025	2026	2028
2023 DIDF Cycle Expected In-Service Date	2023	83.84%	0.00%	0.00%	0.00%	0.00%	0.00%
	2024	4.93%	4.11%	0.00%	0.00%	0.00%	0.00%
	2025	0.00%	1.10%	1.64%	0.00%	0.00%	0.00%
	2026	0.00%	0.00%	0.27%	1.10%	0.00%	0.00%
	2027	0.00%	0.00%	0.00%	0.27%	0.82%	0.00%
	2028	0.27%	0.00%	0.27%	0.27%	0.27%	0.00%
	2029	0.00%	0.00%	0.27%	0.00%	0.27%	0.27%

Energy Storage	2022 DIDF Cycle Expected In-Service Date	
	Year	2022
2023 DIDF Cycle Expected In-Service Date	2023	100.00%

Industrial	2022 DIDF Cycle Expected In-Service Date				
	Year	2022	2023	2024	2025
2023 DIDF Cycle Expected In-Service Date	2023	73.28%	0.00%	0.00%	0.00%
	2024	6.34%	6.61%	0.00%	0.00%
	2025	0.28%	1.65%	7.16%	0.00%
	2026	0.28%	0.55%	0.00%	0.55%
	2027	0.00%	0.00%	0.00%	3.03%
	2028	0.28%	0.00%	0.00%	0.00%

Residential	2022 DIDF Cycle Expected In-Service Date				
	Year	2022	2023	2024	2025
2023 DIDF Cycle Expected In-Service Date	2023	78.96%	0.00%	0.00%	0.00%
	2024	5.19%	10.09%	0.00%	0.00%
	2025	1.15%	1.15%	2.02%	0.00%
	2026	0.29%	0.29%	0.29%	0.29%
	2028	0.00%	0.00%	0.29%	0.00%

Transportation	2022 DIDF Cycle Expected In-Service Date					
	Year	2022	2023	2024	2025	2026
2023 DIDF Cycle Expected In-Service Date	2023	85.49%	0.00%	0.00%	0.00%	0.00%
	2024	5.10%	5.10%	0.00%	0.00%	0.00%
	2025	0.39%	0.39%	1.18%	0.00%	0.00%
	2026	0.78%	0.78%	0.00%	0.39%	0.00%
	2027	0.00%	0.00%	0.00%	0.00%	0.39%

15. Service Cancellation Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category or known load.

Service cancellation rate is interpreted as a matrix with rows and columns representing the 2023 and 2022 DIDF cycle inclusion dates respectively of cancelled known loads that have appeared in both DIDF cycles. The counts of known loads cancelled from the 2022 to 2023 DIDF cycle dates in the matrix are normalized over the total amount of cancelled projects in each customer type. The matrix is intended to portray service cancellation rates, by inclusion date, among cancelled projects that appear in both the 2022 and 2023 DIDF cycles. These matrices are organized by customer type. Some customer types do not show service rate cancellation data, as the known loads may have been cancelled but may not have been present in both 2022 and 2023 DIDF cycles, creating the lack of forecast year data for these known loads. There were 6 cancelled known loads that were listed in both the 2022 and the 2023 DIDF cycles. For example, 20% of cancelled Industrial known loads present in both the 2022 and 2023 DIDF cycles have been pushed from 2022 to 2023.

Table 21: Service Cancellation Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load

Commercial	2022 DIDF Cycle Expected In-Service Date		
	Years	2022	2023
2023 DIDF Cycle Expected In-Service Date	2023	0.00%	100.00%

Industrial	2022 DIDF Cycle Expected In-Service Date			
	Years	2022	2023	2024
2023 DIDF Cycle Expected In-Service Date	2023	20.00%	40.00%	0.00%
	2024	20.00%	0.00%	20.00%

16. Service Reduction Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load

Service reduction rate is interpreted as a matrix with rows and columns representing the 2023 and 2022 DIDF cycle expected in service dates respectively of known loads that had a decrease in load amount from the 2022 to the 2023 DIDF cycle. The counts of known loads with a service reduction from the 2022 to 2023 DIDF are normalized over the total amount of known loads with a load reduction in each customer type category. The matrix is intended to portray trends in service reduction by expected in service dates from the 2022 to 2023 DIDF cycles. These matrices are organized by customer type. Example: The expected in-service date for 76.67% of Agricultural known loads that requested a service decrease have been pushed from 2022 to 2023.

Table 22: Service Reduction Rate (%) in first, second, third and fourth year after initial inclusion as a known load by type and category of known load

Agriculture	2022 DIDF Cycle Expected In-Service Date				
	Years	2022	2023	2024	2027
2023 DIDF Cycle Expected In-Service Date	2023	76.67%	6.67%	0.00%	0.00%
	2024	5.56%	3.33%	4.44%	0.00%
	2025	0.00%	0.00%	2.22%	0.00%
	2027	0.00%	0.00%	0.00%	1.11%

Commercial	2022 DIDF Cycle Expected In-Service Date										
	Years	2022	2023	2024	2025	2026	2027	2028	2035	2031	2030
2023 DIDF Cycle Expected In-Service Date	2023	55.92%	15.46%	1.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	2024	3.62%	3.95%	5.26%	0.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	2025	0.00%	0.66%	1.97%	2.63%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	2026	0.00%	0.00%	0.33%	0.99%	1.32%	0.00%	0.00%	0.00%	0.00%	0.00%
	2027	0.00%	0.00%	0.00%	0.33%	0.99%	1.32%	0.00%	0.00%	0.00%	0.00%
	2028	0.00%	0.00%	0.33%	0.33%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%
	2029	0.00%	0.00%	0.33%	0.00%	0.33%	0.00%	0.33%	0.00%	0.00%	0.00%
	2030	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.33%
	2031	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.33%	0.00%
	2035	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.66%	0.00%	0.00%

Energy Storage	2022 DIDF Cycle Expected In-Service Date	
	Years	2022
2023 DIDF Cycle Expected In-Service Date	2023	100.00%

Industrial	2022 DIDF Cycle Expected In-Service Date								
	Years	2022	2023	2024	2025	2026	2027	2028	2031
2023 DIDF Cycle Expected In-Service Date	2023	54.08%	11.78%	0.30%	0.00%	0.00%	0.00%	0.00%	0.00%
	2024	6.34%	5.74%	7.55%	0.00%	0.00%	0.00%	0.00%	0.00%
	2025	0.00%	1.51%	3.32%	2.72%	0.00%	0.00%	0.00%	0.00%
	2026	0.00%	0.30%	0.00%	0.30%	0.91%	0.00%	0.00%	0.00%
	2027	0.00%	0.00%	0.00%	3.32%	0.00%	0.91%	0.00%	0.00%
	2028	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.30%	0.00%
	2031	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.30%
	2033	0.30%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Residential	2022 DIDF Cycle Expected In-Service Date							
	Years	2022	2023	2024	2025	2026	2031	2030
2023 DIDF Cycle Expected In-Service Date	2023	58.20%	13.52%	0.00%	0.00%	0.00%	0.00%	0.00%
	2024	5.33%	6.97%	7.79%	0.41%	0.00%	0.00%	0.00%
	2025	0.82%	0.00%	1.23%	2.46%	0.00%	0.00%	0.00%
	2026	0.41%	0.41%	0.00%	0.41%	0.82%	0.00%	0.00%
	2028	0.00%	0.00%	0.41%	0.00%	0.00%	0.00%	0.00%
	2030	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.41%
	2031	0.00%	0.00%	0.00%	0.00%	0.00%	0.41%	0.00%

Transportation	2022 DIDF Cycle Expected In-Service Date							
	Years	2022	2023	2024	2025	2026	2027	2034
2023 DIDF Cycle Expected In-Service Date	2023	70.05%	9.66%	0.97%	0.00%	0.00%	0.00%	0.00%
	2024	5.31%	4.83%	2.90%	0.48%	0.00%	0.00%	0.00%
	2025	0.48%	0.48%	0.97%	1.45%	0.00%	0.48%	0.00%
	2026	0.97%	0.00%	0.00%	0.00%	0.48%	0.00%	0.00%
	2034	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.48%