



April 28, 2026

VIA: ELECTRONIC FILING

Mr. Adam J. Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Load Research Report - Tampa Electric Company

Dear Mr. Teitzman:

In compliance with Rule 25-6.0437, attached is Tampa Electric Company's Load Research Report.

Thank you for your assistance in connection with this matter.

Sincerely,

A handwritten signature in blue ink that reads 'Malcolm N. Means'.

Malcolm N. Means

MNM/bml
Attachment

cc: Paula K. Brown (w/o enc.)

TAMPA ELECTRIC COMPANY
LOAD RESEARCH REPORT RESULTS

Study Period from
January 1, 2025 through December 31, 2025

APRIL 2026

PURPOSE

This filing is to report the results of the 2025 Load Research Study which is required to be reported every three years to the Florida Public Service Commission (FPSC) in compliance with the Cost of Service Load Research Rule 25-6.0437. The main goal of this rule is to ensure that load research used for cost of service studies in ratemaking is accurate enough to guarantee that tariffs are fair and reflect the actual costs of serving each customer group. Load research data gathered and submitted in accordance with this rule will also be used by the Commission to allocate costs to the customer classes in cost recovery clause proceedings, in evaluating proposed and operating conservation programs, for research, and for other purposes consistent with the Commission’s responsibilities.

REPORTING PERIOD

The data summarized in this report was collected during calendar year 2025. The samples were selected in 2023 and 2024, and the recording equipment was installed prior to December 31 of the year the sample was selected in most cases.

SAMPLING PLAN

The sampling plan was formulated and filed with this Commission on August 1, 2023. It was approved by the Commission on September 15, 2023. The next sampling plan will be filed with this Commission in August 2026.

ANNUAL SALES

The table below summarizes the annual retail sales by rate class and shows the percent of total annual sales.

Rate Classes	2025 Annual Retail Sales (MWH)	Percent of Total Retail Sales
RS – Residential Service <small>Includes RSVP</small>	10,283,615	49.2%
GS – General Service <small>Includes GST, CS</small>	943,810	4.5%
GSD – General Service Demand <small>Includes GSDT, GSDO</small>	7,188,299	34.4%
GSLD – General Service Large Demand <small>Includes GSLDPR, GSLDTPR, GSLDSU, GSLDTSU, SBLDTPR, SBLDTSU</small>	2,381,694	11.4%
LS – Lighting Service <small>Includes LS-1, LS-2</small>	109,862	0.5%
Total	20,907,280	100%

RESIDENTIAL CLASS SAMPLE

The residential sample (RS) was pre-stratified by housing type. The three housing type categories are single-family detached, multi-family, and mobile-home. This stratification is preferred because the load patterns for the three housing types are dissimilar. The sample points were allocated to the strata using Neyman allocation with stratum means and variances estimated from the previous sample results. Neyman allocation is a strategy used to decide how many meters to place in each stratum. A minimum sample size of 50 was used in the multi-family and mobile home categories. The resulting sample allocation is shown below.

RESIDENTIAL SERVICE SAMPLE SIZES

Stratum	Sample Size
Single Family Detached	175
Multi Family	50
Mobile Home	50
Total	275

GENERAL SERVICE NON-DEMAND CLASS SAMPLE

The stratification variable used for the General Service (GS) Non-Demand sample was the annual kilowatt-hour (“kWh”) consumption at the time of sample selection. The stratum boundary was set at 15,000 kWh of annual usage. The sample points were allocated to the strata using Neyman allocation with stratum variances estimated from previous sample results. The allocation is shown below.

GENERAL SERVICE NON-DEMAND SAMPLE SIZES

Stratum	Sample Size
0 – 14,999 kWh	257
15,000 kWh and beyond	243
Secondary Metered / Primary Served	0 ⁽¹⁾
Primary Metered / Secondary Served	3 ⁽¹⁾
Primary Metered / Primary Served	14 ⁽¹⁾
Total	517

- (1) 100 percent sampled stratum; therefore size will vary depending upon the number of customers meeting criteria.

GENERAL SERVICE DEMAND CLASS SAMPLE

The stratification variable used for the General Service Demand (GSD) sample was the highest billed demand in the twelve months prior to sample selection. For cost of service analysis, class demands are separated by voltage level. For secondary voltage customers, the stratum boundaries were 200 kW and 500 kW. All secondary metered/secondary served customers over 500 kW were included in a 100 percent sampled stratum. If any primary served, or subtransmission served customers exceed 1,000 kW, they will move to the General Service Large Demand (GSLD) class. For any customers subsequently exceeding the 500 kW threshold, recorders were installed on the meters and they were included in the sample as well. The sample points in the two sampled strata were allocated using Neyman allocation. The allocation is shown below and reflects totals in the 100 percent sampled strata as of December 2025.

GENERAL SERVICE DEMAND SAMPLE SIZES

Stratum	Sample Size
Secondary 0 – 199 kW	70
Secondary 200 – 499 kW	70
Secondary over 499 kW (100%)	629 ⁽¹⁾
Secondary Metered / Primary Served (100%)	0 ⁽¹⁾
Primary Metered / Secondary Served (100%)	43 ⁽¹⁾
Primary Metered / Primary Served (100%)	65 ⁽¹⁾
Primary Metered / Subtransmission Served (100%)	1 ⁽¹⁾
Subtransmission Metered / Primary Served (100%)	1 ⁽¹⁾
Subtransmission Metered / Subtransmission Served (100%)	2 ⁽¹⁾
Total	881

(1) 100 percent sampled stratum; therefore size will vary depending upon the number of customers meeting criteria.

GENERAL SERVICE LARGE DEMAND CLASS SAMPLE

The General Service Large Demand (GSLD) class contains customers that are either primary or subtransmission served and over 1,000 kW. The GSLD class has recorders installed on each customer. For cost of service analysis, the customers are stratified by voltage level as served, either primary or subtransmission. In the event customers migrate out of the GSLD rate, the analysis population is changed accordingly. The population size was 72 as of December 2025.

LIGHTING SERVICE CLASS SAMPLE

Due to the fact the Lighting total retail sales have fallen below 1% of Tampa Electric's total retail sales, Lighting results will not be included in this report for this study period.

STUDY METHODOLOGY

Following sample design, the load research study consists of four phases: data collection, editing, storage and analysis. The methodology Tampa Electric used in the phases for this study is basically the same as it has used in the past.

DATA COLLECTION

Once sample sizes, stratum definitions, and sample allocations are determined, sample selection begins. Random numbers are assigned to each customer in the class; then, the list of customers is sorted in ascending order by the assigned random number. The first group of customers on the list is the prime sample, while the following group is the backup sample. The backup sample will be used, if necessary, as a source of replacement customers. The replacement list is maintained in random order and used in that order, as needed.

Customers selected who already have an AMI meter (smart meter) at their location will not get their meter replaced. A recorder identification number is assigned in the customer billing system to this group of identified meters and the fifteen minute watt-hour energy from these meters is provided to the Load Research group from the company's Meter Data Management system and transferred for input to the Load Research System (LRS). For customers that are unable to have an AMI meter, a pulse initiating recording meter is installed. The recorded reads and interval data are collected, usually on a monthly basis, and processed by the AMI Operations Department through a translation system. The translation system produces transfer files which are uploaded and subsequently input into LRS. Both meter types are being used due to no available AMI solution for some high precision meter types.

DATA EDITING AND STORAGE

Data entered into LRS goes through a preliminary screening to determine its acceptability. Data that does not pass the validation criteria is examined by an analyst to determine if any portion of the data is useable and if any editing is required. The data is flagged to indicate whether it is suitable for analysis purposes and is then stored permanently.

DATA ANALYSIS

The data that passes LRS's validation criteria is then processed through software modules capable of performing stratified or unstratified mean-per-unit, combined ratio or separate ratio analysis. The analyses are run on a calendar month basis and produce statistics at the class level and at the per customer level.

RESULTS

The tables show class coincident and non-coincident demands, along with their precision for 2025, calculated at the 90 percent confidence level. Estimates of average monthly coincident peaks and summer/winter peak demands must be within $\pm 10\%$ at this confidence level, except the General Service Non-Demand rate class, which must be within $\pm 15\%$.

The winter system coincident peak occurred on Wednesday, January 22, 2025 at 19:00 and the summer coincident peak occurred on Monday, July 28, 2025 at 17:00. The following table shows the date and time of the monthly coincident and non-coincident peaks.

2025
COINCIDENT AND NON-COINCIDENT PEAK DATES AND TIMES

	Coincident Peak	Non- Coincident Peaks			
		RS	GS	GSD	GSLD
Jan	22-19:00	25-09:00	23-12:00	31-15:00	31-20:00
Feb	13-17:00	13-17:00	13-14:00	13-15:00	28-13:00
Mar	31-18:00	31-18:00	31-15:00	31-15:00	07-21:00
Apr	28-18:00	27-17:00	03-15:00	02-15:00	01-15:00
May	27-18:00	27-18:00	29-15:00	29-15:00	09-20:00
Jun	10-18:00	17-18:00	10-16:00	10-14:00	28-12:00
Jul	28-17:00	27-17:00	29-15:00	29-15:00	23-11:00
Aug	04-18:00	03-17:00	21-15:00	14-14:00	17-13:00
Sep	05-17:00	06-15:00	23-15:00	05-15:00	12-22:00
Oct	08-18:00	08-18:00	08-16:00	08-15:00	29-14:00
Nov	08-16:00	08-17:00	25-14:00	07-14:00	02-15:00
Dec	31-09:00	31-10:00	02-14:00	02-14:00	19-16:00

Coincident Peak Tables

Peak (MW)

Average kW per Customer

Precision (%)

Load Factors (%)

2025
MONTHLY COINCIDENT PEAKS (MW)

	RS	GS	GSD	GSLD
Jan	2,309.0	146.2	813.2	276.0
Feb	1,479.0	161.2	1,036.1	280.0
Mar	1,891.0	152.2	995.2	278.0
Apr	2,064.0	170.2	1,052.2	297.0
May	2,591.0	197.2	1,123.1	270.0
Jun	2,387.0	194.2	1,088.1	267.0
Jul	2,570.0	212.1	1,169.1	274.0
Aug	2,465.0	194.1	1,151.2	312.0
Sep	2,234.0	198.2	1,142.1	286.0
Oct	2,193.0	171.1	1,095.2	278.0
Nov	1,721.0	125.2	930.1	303.0
Dec	1,613.0	104.2	763.1	253.0
12 CP Avg. *	2,126.4	168.8	1,029.9	281.2

**Based on 12-month average CP*

**2025
COINCIDENT PEAK
AVERAGE KW PER CUSTOMER**

	RS	GS	GSD	GSLD
Jan	3.02	2.02	42.79	3,778.02
Feb	1.93	2.21	54.42	3,788.74
Mar	2.47	2.09	52.34	3,711.22
Apr	2.69	2.33	55.33	3,907.70
May	3.37	2.71	58.91	3,599.69
Jun	3.10	2.66	56.93	3,558.60
Jul	3.34	2.92	61.03	3,659.56
Aug	3.20	2.68	59.84	4,212.13
Sep	2.90	2.73	59.19	3,923.75
Oct	2.84	2.37	56.68	3,855.25
Nov	2.23	1.72	48.19	4,213.19
Dec	2.09	1.43	39.65	3,608.85

**2025
COINCIDENT PEAK
PRECISION (%)**

	RS	GS	GSD	GSLD*
Jan	8.17%	7.65%	5.42%	N/A
Feb	6.55%	5.57%	6.89%	N/A
Mar	5.55%	5.46%	3.63%	N/A
Apr	4.71%	4.93%	3.45%	N/A
May	4.65%	5.28%	2.81%	N/A
Jun	3.83%	4.04%	4.04%	N/A
Jul	3.90%	4.20%	3.76%	N/A
Aug	3.25%	4.06%	2.97%	N/A
Sep	3.99%	4.12%	2.92%	N/A
Oct	3.93%	4.59%	2.54%	N/A
Nov	5.77%	5.99%	4.83%	N/A
Dec	9.74%	8.76%	6.18%	N/A
12 CP	5.14%	5.16%	4.01%	N/A

**Note: GSLD is a 100 percent sampled class, therefore no precision calculation is necessary.*

**2025
COINCIDENT PEAK
LOAD FACTORS (%)**

	RS	GS	GSD	GSLD***
Jan	48%	65%	88%	96%
Feb	57%	53%	72%	96%
Mar	47%	58%	73%	95%
Apr	54%	63%	78%	90%
May	53%	63%	78%	107%
Jun	60%	65%	82%	103%
Jul	60%	63%	79%	104%
Aug	60%	68%	82%	94%
Sep	62%	62%	80%	102%
Oct	51%	62%	77%	98%
Nov	53%	69%	78%	81%
Dec	54%	80%	93%	97%
12 CP Avg.*	55%	64%	80%	97%
Annual**	45%	51%	70%	87%

* Based on 12-month average CP and annual energy

** Based on maximum annual CP and annual energy

*** Load Factors can exceed 100 percent when comparing load to the retail system coincident peak.

Non-Coincident Peak Tables

Peak (MW)

Average kW per Customer

Precision (%)

Load Factors (%)

2025
MONTHLY NON-COINCIDENT PEAKS (MW)

	RS	GS	GSD	GSLD
Jan	2,354.5	194.2	953.2	327.0
Feb	1,479.2	174.5	1,106.6	327.1
Mar	1,890.7	174.0	1,113.2	313.5
Apr	2,147.6	199.2	1,147.6	336.3
May	2,590.6	234.7	1,213.4	346.8
Jun	2,425.5	223.6	1,199.5	325.2
Jul	2,688.9	237.4	1,251.6	347.4
Aug	2,472.9	227.6	1,274.5	367.8
Sep	2,331.4	211.5	1,228.6	367.9
Oct	2,192.7	207.9	1,198.2	351.5
Nov	1,760.2	169.7	1,063.6	305.4
Dec	1,685.5	156.9	1,035.9	306.0
12 NCP Avg.*	2,168.3	200.9	1,148.8	335.2

**Based on 12-month average NCP*

**2025
NON-COINCIDENT PEAK
AVERAGE KW PER CUSTOMER**

	RS	GS	GSD	GSLD
Jan	3.08	2.68	50.17	4,541.77
Feb	1.93	2.40	58.18	4,420.46
Mar	2.47	2.39	58.54	4,180.48
Apr	2.80	2.74	60.31	4,484.12
May	3.37	3.23	63.65	4,562.61
Jun	3.15	3.08	62.79	4,278.77
Jul	3.49	3.27	65.33	4,694.12
Aug	3.21	3.14	66.25	4,969.64
Sep	3.02	2.92	63.69	5,039.54
Oct	2.84	2.87	62.02	4,882.08
Nov	2.28	2.34	55.10	4,242.13
Dec	2.18	2.16	53.78	4,250.07

**2025
NON-COINCIDENT PEAK
PRECISION (%)**

	RS	GS	GSD	GSLD*
Jan	8.03%	7.65%	4.74%	N/A
Feb	6.55%	5.54%	6.97%	N/A
Mar	5.55%	5.35%	3.78%	N/A
Apr	5.51%	4.89%	3.49%	N/A
May	4.65%	4.86%	3.32%	N/A
Jun	3.49%	4.22%	3.00%	N/A
Jul	4.06%	4.16%	4.06%	N/A
Aug	3.64%	3.76%	3.09%	N/A
Sep	5.07%	4.17%	3.48%	N/A
Oct	3.93%	4.57%	3.31%	N/A
Nov	5.86%	5.78%	3.30%	N/A
Dec	9.88%	6.83%	3.06%	N/A

**Note: GSLD is a 100 percent sampled class, therefore no precision calculation is necessary.*

**2025
NON-COINCIDENT PEAK
LOAD FACTORS (%)**

	RS	GS	GSD	GSLD
Jan	47%	49%	75%	81%
Feb	57%	49%	67%	82%
Mar	47%	51%	65%	84%
Apr	52%	54%	71%	79%
May	53%	53%	73%	83%
Jun	59%	57%	74%	84%
Jul	58%	56%	74%	82%
Aug	60%	58%	74%	80%
Sep	59%	58%	75%	80%
Oct	51%	51%	71%	78%
Nov	52%	51%	68%	80%
Dec	52%	53%	69%	80%
12 NCP Avg.*	54%	53%	71%	81%
Annual **	44%	45%	64%	74%

* Based on 12-month average NCP and annual energy

** Based on maximum annual NCP and annual energy

Customer Non-Coincident Tables

Peak (MW)

Average kW per Customer

Precision (%)

2025
CUSTOMER NON-COINCIDENT PEAKS (MW)

	RS	GS	GSD	GSLD
Jan	5,608.7	389.2	1,369.6	463.6
Feb	4,687.4	311.1	1,395.0	446.3
Mar	4,761.5	321.1	1,375.6	463.0
Apr	4,553.8	325.7	1,433.1	445.1
May	4,758.5	353.9	1,495.5	519.3
Jun	4,732.1	345.9	1,485.7	440.3
Jul	4,896.9	355.3	1,539.0	498.8
Aug	4,753.2	355.7	1,563.3	506.8
Sep	4,736.2	337.2	1,520.4	490.2
Oct	4,605.5	322.9	1,454.5	490.6
Nov	5,170.8	327.6	1,390.0	436.6
Dec	4,915.2	307.1	1,336.9	392.1

2025
CUSTOMER NON-COINCIDENT PEAK
AVERAGE KW PER CUSTOMER

	RS	GS	GSD	GSLD
Jan	7.34	5.37	72.05	6,020.55
Feb	6.13	4.28	73.29	5,796.29
Mar	6.22	4.41	72.28	6,012.48
Apr	5.94	4.48	75.25	5,780.54
May	6.19	4.87	78.39	6,744.26
Jun	6.15	4.77	77.73	5,717.80
Jul	6.36	4.90	80.28	6,477.69
Aug	6.17	4.91	81.23	6,582.08
Sep	6.14	4.65	78.78	6,366.77
Oct	5.97	4.45	75.26	6,370.96
Nov	6.69	4.51	71.96	5,669.96
Dec	6.36	4.23	69.36	5,092.28

**2025
CUSTOMER NON- COINCIDENT PEAK
PRECISION (%)**

	RS	GS	GSD	GSLD*
Jan	5.27%	6.04%	5.76%	N/A
Feb	4.54%	4.73%	5.84%	N/A
Mar	4.65%	5.53%	4.73%	N/A
Apr	4.78%	4.51%	4.56%	N/A
May	4.37%	4.27%	4.14%	N/A
Jun	3.92%	4.10%	3.95%	N/A
Jul	4.02%	4.13%	4.04%	N/A
Aug	4.04%	4.11%	4.01%	N/A
Sep	4.08%	4.15%	4.25%	N/A
Oct	3.86%	4.10%	3.76%	N/A
Nov	4.27%	5.05%	3.99%	N/A
Dec	5.32%	5.43%	4.02%	N/A

**Note: GSLD is a 100 percent sampled class, therefore no precision calculation is necessary.*

Monthly Energy Tables

Class Energy (MWH)

Average kWh per Customer

**2025
CLASS TOTAL
MONTHLY ENERGY (MWH)**

	RS	GS	GSD	GSLD
Jan	829,879	71,137	530,687	197,776
Feb	566,290	57,907	500,283	180,002
Mar	655,191	65,575	539,041	196,869
Apr	796,805	76,951	587,357	191,963
May	1,023,399	92,251	655,491	215,161
Jun	1,028,582	91,226	640,425	197,475
Jul	1,153,465	98,975	690,975	211,956
Aug	1,107,483	98,068	703,346	217,698
Sep	989,515	88,291	659,070	210,803
Oct	828,796	79,266	629,511	202,916
Nov	656,957	62,444	523,213	176,765
Dec	647,253	61,719	528,900	182,310
Total	10,283,615	943,810	7,188,299	2,381,694

Note: Totals may not add due to rounding.

2025
AVERAGE kWh PER CUSTOMER

	RS	GS	GSD	GSLD
Jan	1,085	980	27,934	2,709,260
Feb	740	796	26,300	2,432,459
Mar	857	903	28,374	2,696,836
Apr	1,042	1,058	30,878	2,594,095
May	1,338	1,270	34,503	2,947,411
Jun	1,345	1,254	33,668	2,668,581
Jul	1,508	1,363	36,371	2,903,507
Aug	1,448	1,348	36,975	2,941,865
Sep	1,294	1,216	34,692	2,887,712
Oct	1,083	1,090	33,094	2,742,108
Nov	859	860	27,540	2,421,438
Dec	846	849	27,805	2,463,649