



**PSEG**

# 2026 PSE&G Load Forecast Adjustments

**Method and Approach to Adjustments**

January 2026





# Background

Public Service Electric and Gas (PSE&G) is requesting an adjustment to the 2026 PJM Load Forecast to reflect the growth of load in its service territory that is not captured by PJM's econometric load forecast model.

Specifically, PSE&G is requesting PJM to adjust the PS Zone for load growth due to data centers and electrification of ports whose growth is not reflected in the economic drivers of the PJM load forecast econometric model.

# Data Centers

- During the summer of 2025, PSE&G had 39 data center sites. The summer peak demand of those sites was 394 MW for 2025.
- Data centers are significant users of on-peak electricity and, since they are more energy intensive than the average commercial activity, they are not captured by the PJM econometric based load forecast model.
- PSE&G is projecting an increase of the demand of its data center customers to 3,084 MW by the Summer of 2031 and 3,461 MW by Summer of 2046. The growth is based on three different categories of data center development as listed below.
  - Expansion of Existing Data Centers
  - New Service Data Center Requests
  - Feasibility of Service Data Center Requests<sup>1</sup>
- Methodology:
  - For each new data center project, Demand and Capacity was received from the data center customers. The average Demand/Capacity ratio turned out to be approximately 75%.
  - In order to assess the likelihood of the realization of each data center request, PSE&G assessed a likelihood of completion based on the following factors:
    - Customer Readiness
    - Site Control
    - Construction Complexity
    - Equipment lead time / availability
    - Overall Customer Commitment
    - Capacity Review Agreement
    - Financial Commitments towards projects
    - Proof of equipment procurement
    - Other information known to PSE&G
  - The completion rates of various categories of data centers are as follows:
    - Expansion of existing data centers: 100%.
    - New Service data center requests: 100%.
    - Feasibility data center requests (Capacity Review): 50%.

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<sup>1</sup> Customers submitted feasibility analysis requests for service but have not submitted formal new service applications.

- Types of agreements and commitments:
  - **Capacity Review Phase:** PSE&G performs load-flow studies to determine if the capacity can be served. This phase also involves a high-level feasibility review of the site and interconnection by PSE&G. Customers must deposit a non-refundable fee.
  - **New Business Phase:** This phase involves extensive engineering review by PSE&G to determine the feasibility of construction, substation design, estimated cost and timelines. This phase requires a deposit from the customer that covers the estimated engineering costs depending upon the size of the load request, location and complexity. These agreements are for the customers to provide financial commitments towards their project to mitigate any risk associated with customers not meeting their milestones (energization date, capacity, demand, etc.). The deposit may be refundable once customer energizes and reaches milestones. As noted in the data center load adjustment document, these agreements are underway.
- The large load request submitted to PJM for data centers is also reflected in PSE&G planning and financial forecasts.



The Projected Data Center Load in the PS Zone is shown below:

Summer Peak Year	Existing Load (MW)	Expansion of Existing (MW)	New Business Requests* (MW)	Feasibility Requests* (MW)	Total (MW)
2026	394	59	251	82	785
2027	394	100	507	299	1300
2028	394	126	850	765	2135
2029	394	180	980	1014	2569
2030	394	204	1106	1206	2910
2031	394	253	1158	1279	3084
2032	394	279	1194	1464	3331
2033	394	283	1227	1496	3399
2034	394	287	1230	1499	3410
2035	394	288	1235	1502	3420
2036	394	288	1235	1506	3423
2037	394	305	1235	1509	3443
2038	394	305	1235	1513	3447
2039	394	305	1235	1516	3450
2040	394	305	1235	1519	3453
2041	394	305	1235	1523	3457
2042	394	305	1235	1526	3460
2043	394	305	1235	1527	3461
2044	394	305	1235	1527	3461
2045	394	305	1235	1527	3461
2046	394	305	1235	1527	3461

Table 1: PSE&G Data Center Peak Demand (MW) by Summer Year

\* Values consider the completion rate.

- In addition to the load submitted to PJM, PSE&G has additional inquiries from customers that have not been included in PSE&G's large load forecast request at this time:
  - 2000 MW in Capacity Review (19 customer requests)
  - 3600 MW in potential leads (31 unique site inquiries)

# Port Electrification

- The Inflation Reduction Act of 2022 provides US Environmental Protection Agency with \$3 billion to fund zero-emission port equipment and infrastructure as well as climate and air quality planning at U.S. ports.
- The electrification of ports is seen as a key way to reduce air pollutants and address public health and environmental impacts on surrounding communities.
- The port facilities in the PSE&G territory are leased to port operators by independent public port authorities; South Jersey Port Corporation (SJPC) and Port Authority of New York and New Jersey (PANYNJ).
- PANYNJ has instructed its port operators to electrify their operations to achieve the goal of net zero carbon emissions by 2050.
- This load increase is not captured by the PJM econometric based load forecast model.
- PSE&G has received load requests for three port operators and has estimated the load impacts for the other two port operators.
  - For ports that did not submit a request, PSE&G gathered publicly available equipment counts to calculate the electric demand.
- The port equipment to be electrified includes container cranes, gantry cranes, forklifts, stackers, and tractor trucks. Port electrification also includes vessel shore power (“cold iron” technologies) to supply the electrical needs of docked ships.
- Types of agreements and commitments:
  - Agreements (with Milestones): An application with a conceptual design has been submitted to PSE&G to determine a plan of supply and likely substation design (Ex: 26kV or 69kV)
  - Agreements (without Milestones): Customer submitted load projections of Ports electrification plans



The projected schedule of Port Electrification is shown below:

Summer Peak Year	Cumulative Load Additions (MW)
2026	4
2027	30
2028	48
2029	52
2030	65
2031	69
2032	74
2033	79
2034	93
2035	98
2036	103
2037	108
2038	113
2039	118
2040	151
2041	151
2042	152
2043	152
2044	153
2045	176
2046	176

Table 2: PSE&G Port Electrification Peak Demand (MW) by Year<sup>2</sup>

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<sup>2</sup> The load data shown above reflects the steady state values. The short duration in-rush values have been ignored.