

2024 Delaware State Infrastructure Report (January 1, 2024 – December 31, 2024)

June 2025



Table of Contents

Planning

- Generation Portfolio Analysis
- Transmission Analysis
- Load Forecast

Markets

- Market Analysis
- 2025/26 Base Residual Auction
- Net Energy Import/Export Trend

Operations

- Generator Production
- Emissions Data



Executive Summary

2024 Delaware State Infrastructure Report

In the Delaware service territory:



- In Delaware, natural gas represents 65% of the total installed capacity while oil represents 21% and coal 13%.
- In PJM, natural gas and coal are 49% and 21% of total installed capacity, while nuclear represents 18%.



Interconnection Requests:

• Wind represents 49% of the generation requesting to physically locate in Delaware while storage and solar represent 25% and 24% of new requests, respectively.

Wind generation listed in the queue for Delaware includes offshore wind projects that are Maryland public policy projects but are physically located in Delaware.



Deactivations:

Delaware had one generator (16.1 MW) deactivate in 2024.



RTEP 2024:

Delaware's 2024 RTEP project total represents \$18.79 million in investment.



Executive Summary

2024 Delaware State Infrastructure Report

In the Delaware service territory:



Load Forecast:

Delaware's summer peak load is projected to increase by 0.2% percent annually over the next ten years, while the winter peak is projected to increase by 0.6% percent.



Capacity Market:

Delaware's service territory cleared at the RTO clearing price, \$269.92, for the 2025/2026 Base Residual Auction.



Market Performance:

Delaware's average hourly LMPs were generally lower than the PJM average hourly LMP.

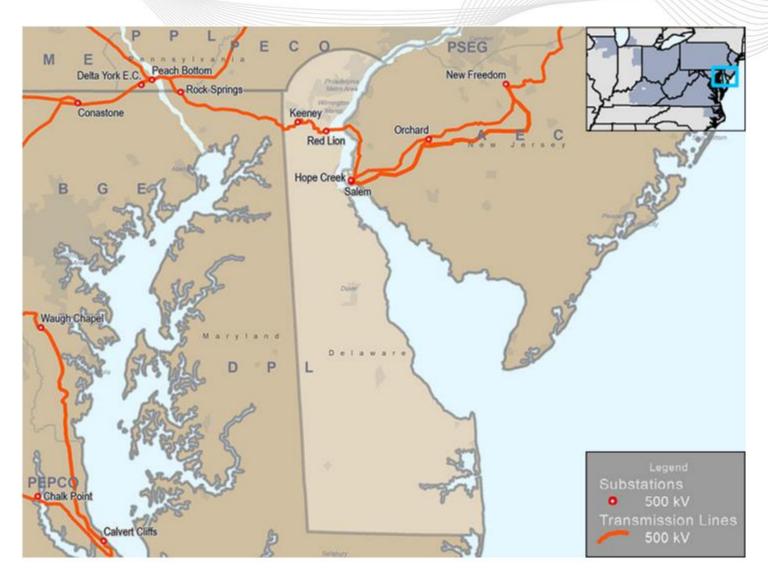


Emissions:

Delaware's average CO₂ emissions increased slightly in 2024 compared to 2023 levels.



PJM Service Area in Delaware



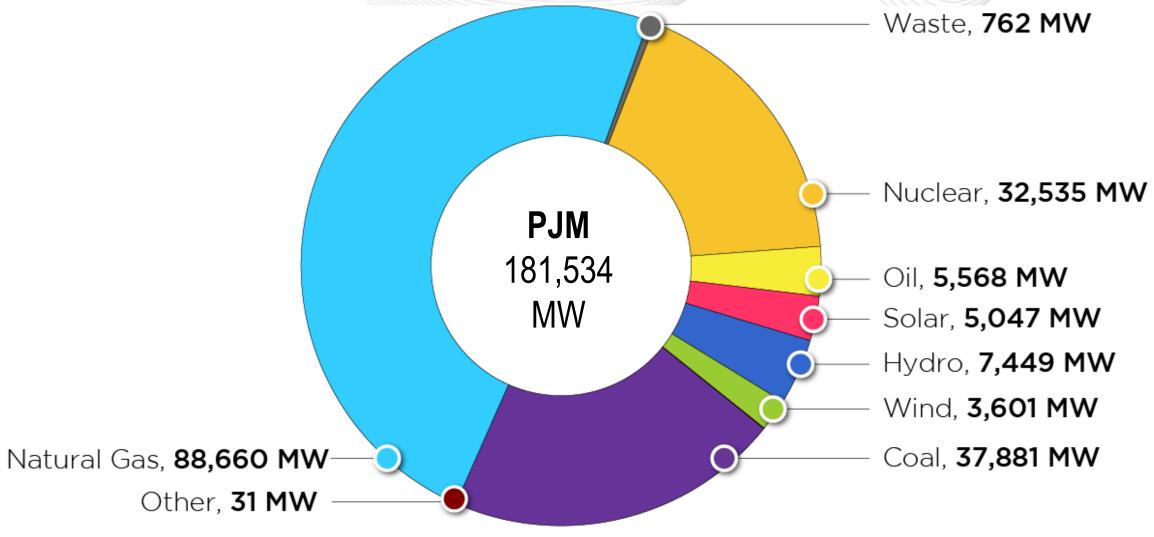


PlanningGeneration Portfolio Analysis



PJM Existing Installed Capacity Mix

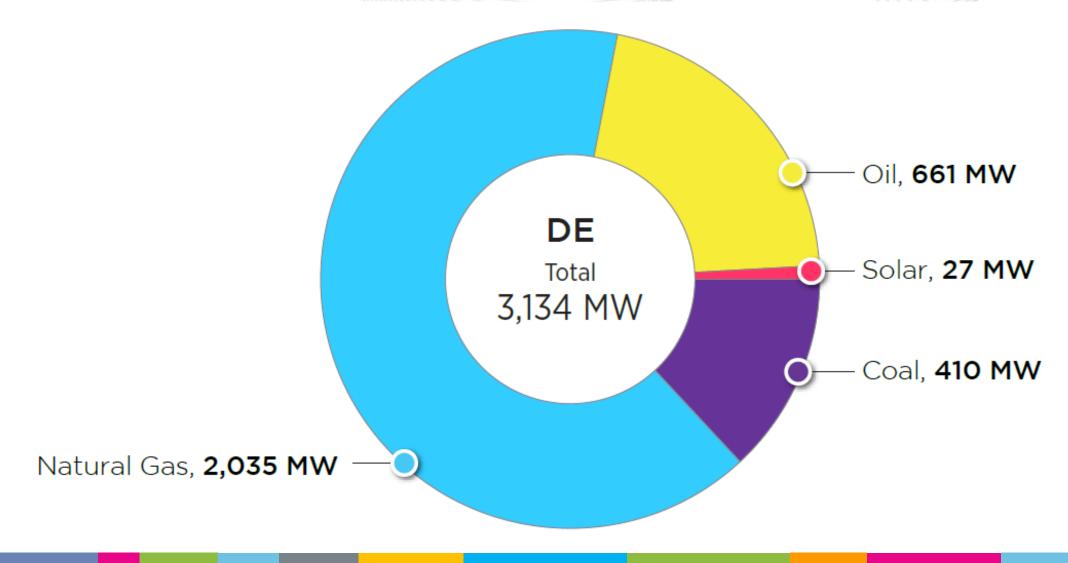
(CIRs – as of Dec. 31, 2024)





Delaware – Existing Installed Capacity (MW) by Fuel Type

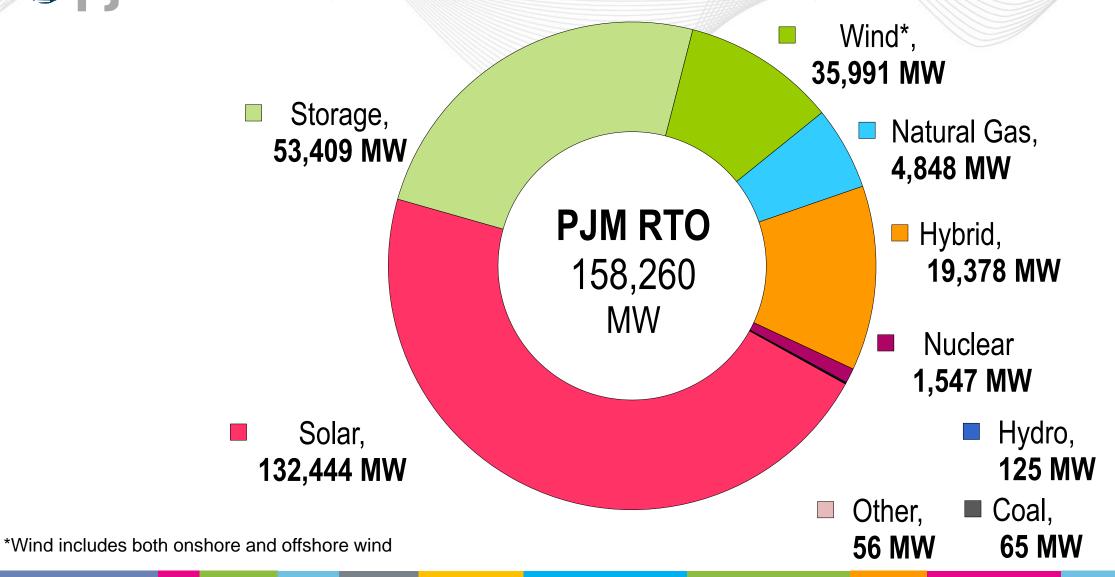
(CIRs as of Dec. 31, 2024)





PJM Queued Capacity (Nameplate) by Fuel Type

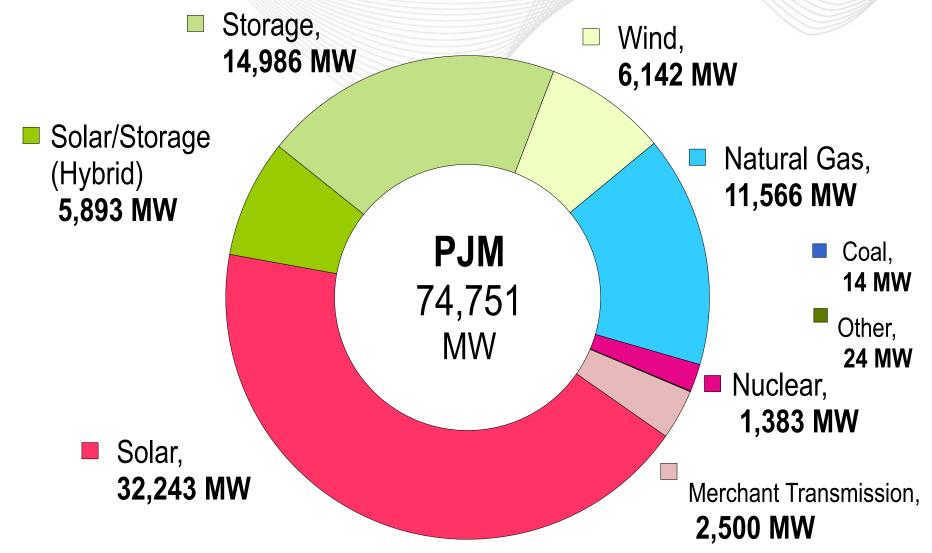
(All "Active" projects and projects with an interconnection agreement but not yet in service, as of May 7, 2025)





PJM Interconnection Queue Transition

Projects remaining in Transition Cycle 1 and Transition Cycle 2, including projects selected through the Reliability Resource Initiative (June 2025)

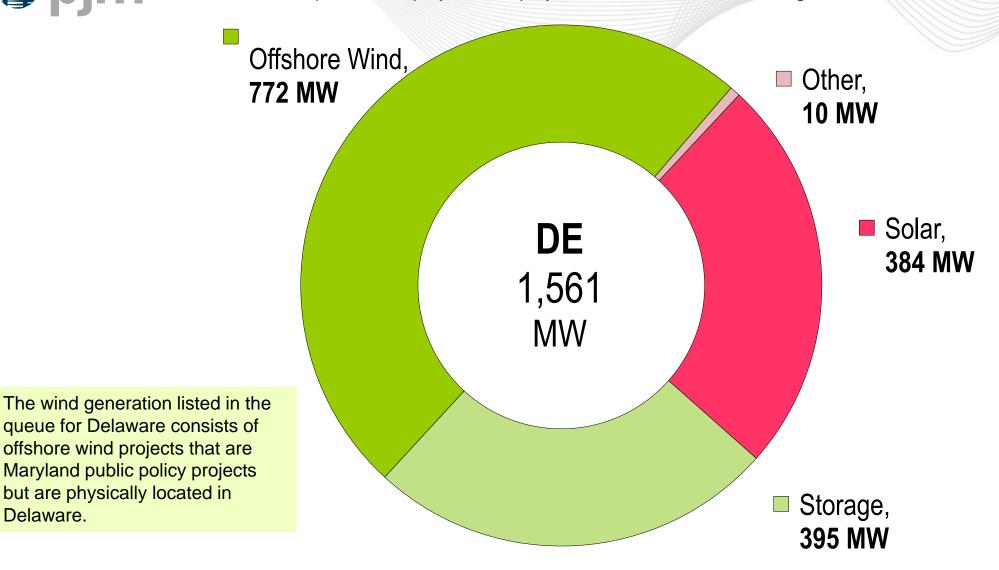




Delaware.

Delaware Queued Capacity (Nameplate) by Fuel Type

(All "Active" projects and projects with an interconnection agreement but not in service yet, as of May 7, 2025)





Delaware – 2024 Generator Deactivations



Unit	TO	Fuel	Request Received	Actual or Projected	Age	Capacity
	Zone	Type	to Deactivate	Deactivation Date	(Years)	(MW)
Indian River 10	DP&L	0il	7/23/2024	6/1/2026	4	16.1



Planning

Transmission Infrastructure Analysis



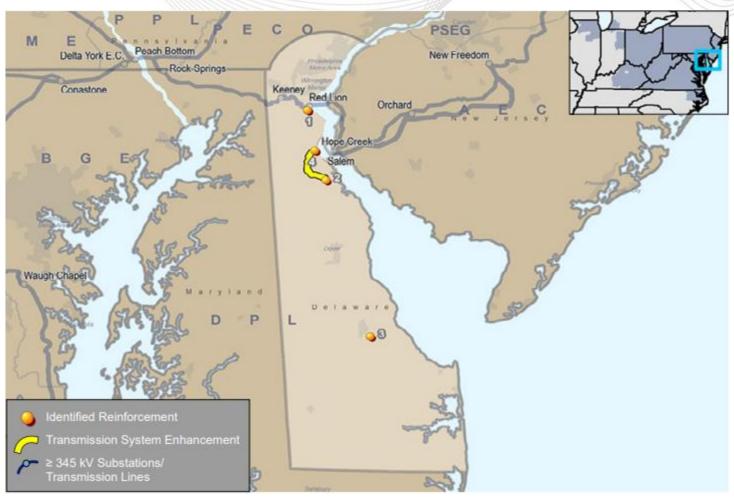
For reporting purposes, the 2024 state infrastructure reports provide maps displaying all baseline, network, and supplemental projects for the respective state. The reports also include aggregated project costs for each type of project within each state. The costs listed in the state infrastructure reports and 2024 Annual RTEP Report are not indicative of each project's cost allocation.

For a detailed list of each project shown on a state's project map, please see that state's section in the **2024 Annual RTEP Report** on PJM.com: https://www.pjm.com/-/media/DotCom/library/reports-notices/2024-rtep/2024-rtep-report.pdf

The complete list of all RTEP projects in PJM, including those from prior years, can be found at the RTEP Upgrades & Status – Transmission Construction Status page on PJM.com: https://www.pjm.com/planning/m/project-construction.



Delaware Baseline Projects

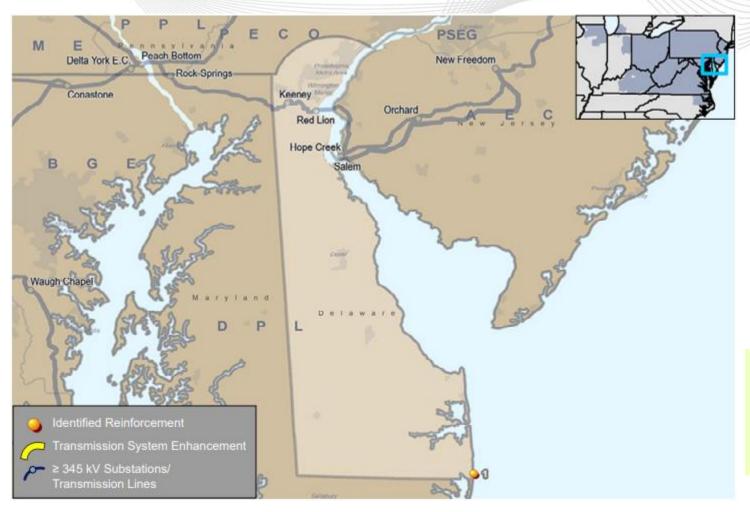


The 2024 RTEP has \$18.39 million in baseline projects located in Delaware.

Note: Baseline upgrades are those that resolve a system reliability criteria violation. Baseline projects listed in the annual RTEP report reflect project costs within a specific location and are not indicative of the project's cost allocation.



Delaware – RTEP Network Projects



The 2024 RTEP has \$0.4 million in network projects located in Delaware.

Note: Network projects are new or upgraded facilities required primarily to eliminate reliability criteria violations caused by proposed generation, merchant transmission or long-term firm transmission service requests, as well as certain direct connection facilities required to interconnect proposed generation projects. The costs of network projects are borne by the interconnection customer.



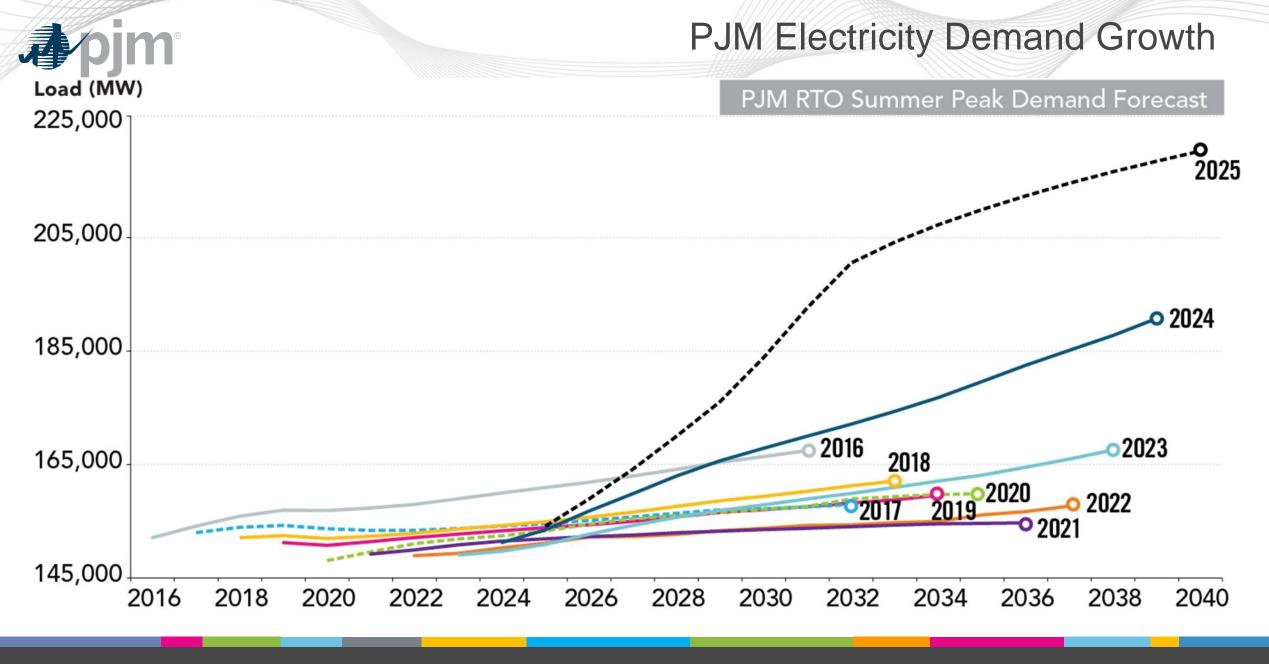
Delaware – TO Supplemental Projects

Delaware had no supplemental projects in 2024.

Note: Supplemental projects are transmission expansions or enhancements that are not required for compliance with PJM criteria and are not state public policy projects according to the PJM Operating Agreement. These projects are used as inputs to RTEP models, but are not required for reliability, economic efficiency or operational performance criteria, as determined by PJM.

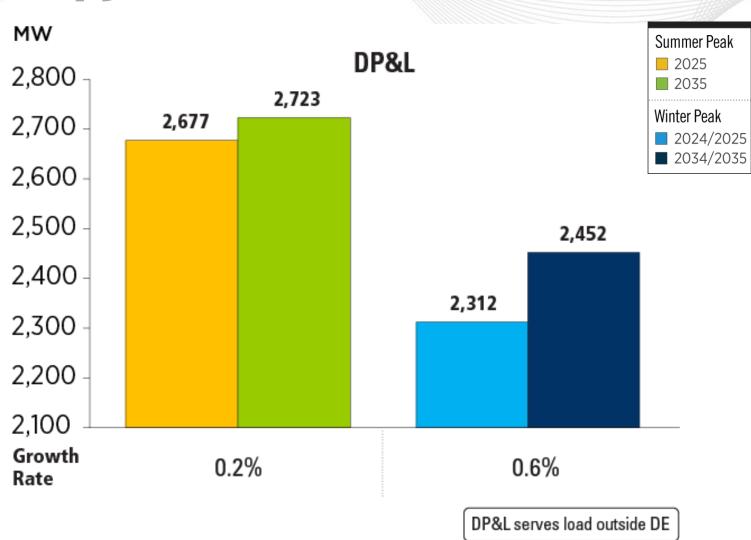


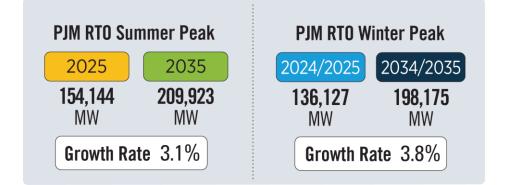
PlanningLoad Forecast





Delaware – 2025 Load Forecast Report





The summer and winter peak megawatt values reflect the estimated amount of forecast load to be served by each transmission owner in the noted state/district. Estimated amounts were calculated based on the average share of each transmission owner's real-time summer and winter peak load in those areas over the past five years.

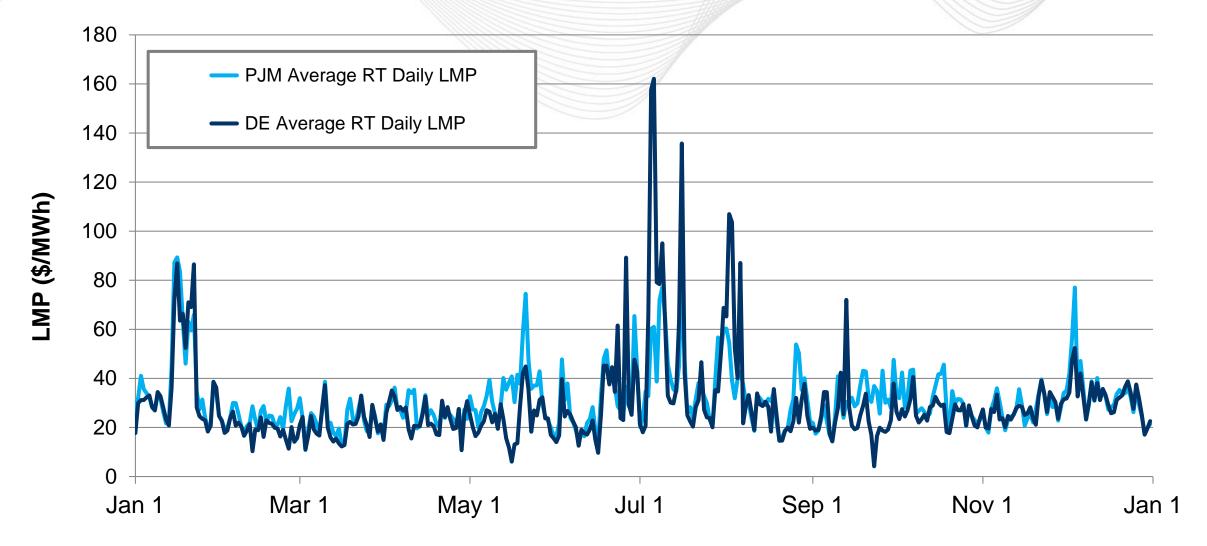


MarketsMarket Analysis



Delaware – Average Daily LMP

(Jan. 1, 2024 - Dec. 31, 2024)

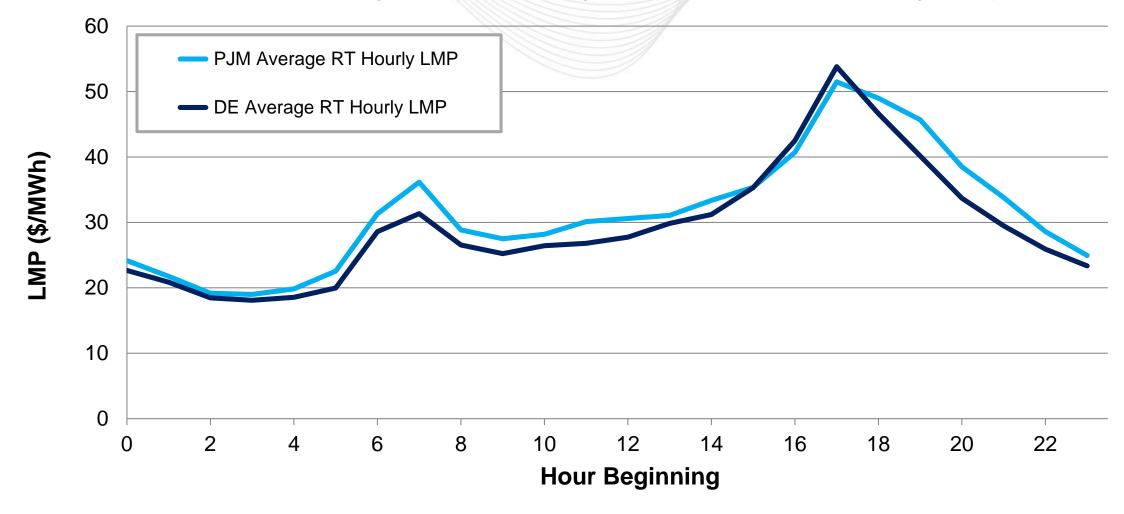




Delaware – Average Hourly LMP

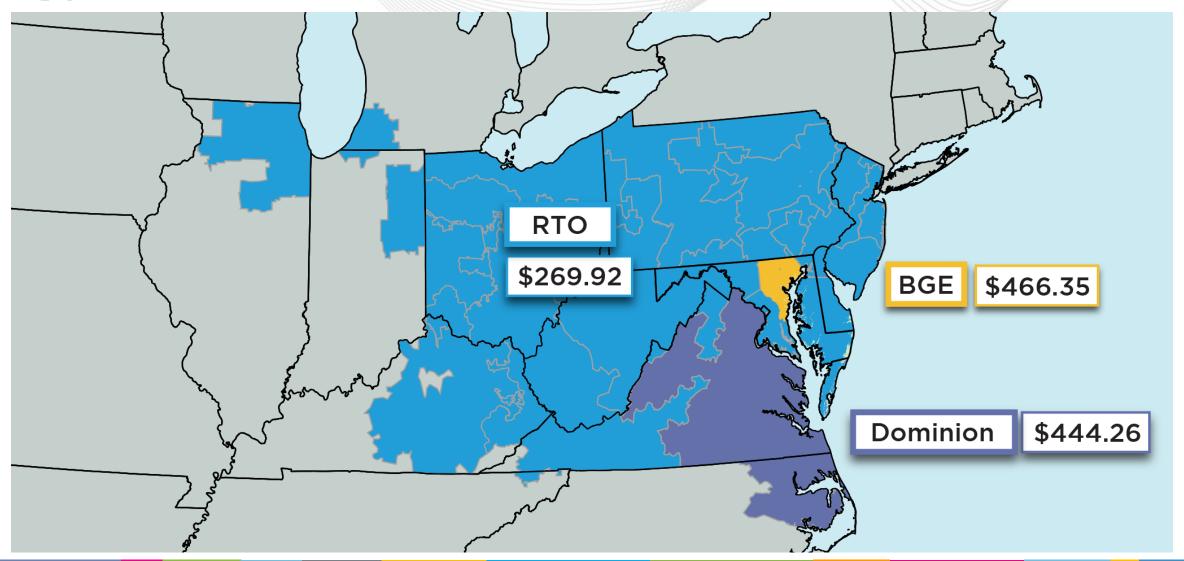
(Jan. 1, 2024 - Dec. 31, 2024)

Delaware's average hourly LMPs were generally lower than the PJM average hourly LMP.





2025/26 Base Residual Auction Clearing Prices (\$/MW-Day)





2025/2026 BRA Final Clearing Prices and MW Quantities

(Unforced Capacity)

LDA	Offered MW*	Cleared MW**	Clearing Price
DOM	20,100.2	20,049.6	\$444.26
BGE	612.9	606.9	\$466.35
RTO	137,152.1	135,684.0	\$269.92

^{*} Offered MW values include Annual, Summer-Period, and Winter-Period Capacity Performance sell offers.

Locational Price Adder is with respect to the immediate parent LDA

^{**} Cleared MW values include Annual and matched Seasonal Capacity Performance sell offers within the LDA.



2025/2026 Cleared MW (UCAP) by Resource Type

CAPACITY PERFORMANCE

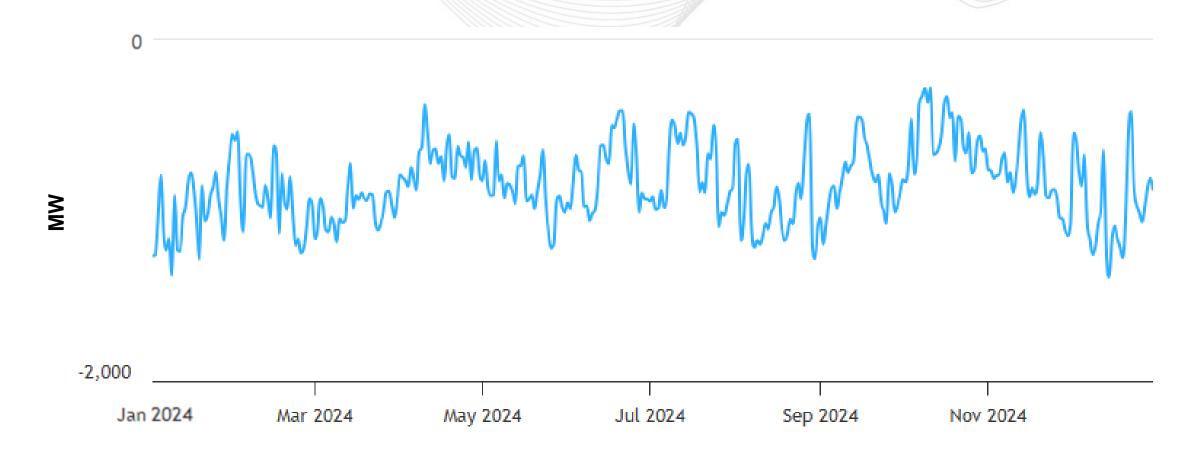
Cleared MW (UCAP)

Resource Type	ANNUAL	SUMMER	WINTER
Generation	128,114.5	45.0	448.0
DR	5,942.4	122.3	-
EE	1,179.1	280.7	_
PRD	210.2	-	_
Total (MW)	135,446.2	448.0	448.0



Delaware - Net Energy Import/Export Trend

(Jan. 2024 - Dec. 2024)



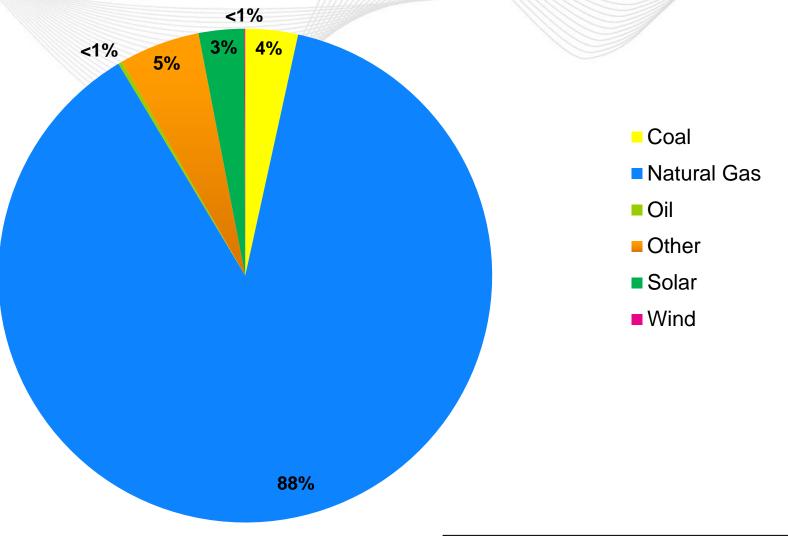
Positive values represent exports and negative values represent imports.



Operations



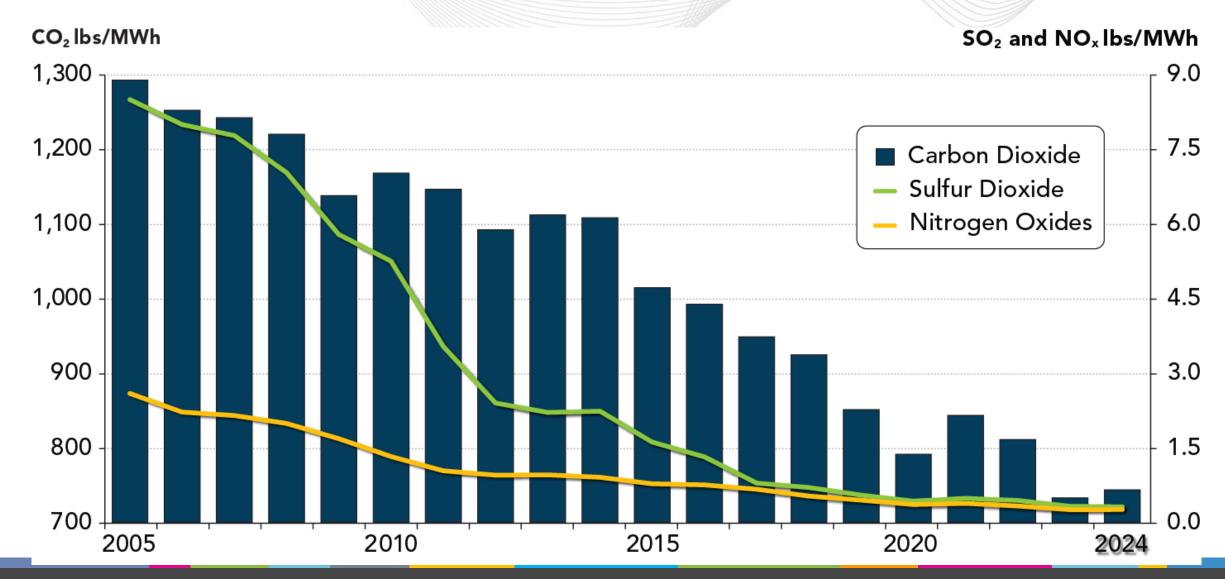
Delaware – 2024 Generator Production



The data in this chart comes from EIA Form 923 (2024).



PJM System Average Emission Rates





Delaware – Average Emissions (lbs/MWh)

(Feb. 2025)

