

2024 Ohio 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 Ohio State Infrastructure Report

In the Ohio service territory:

Existing Capacity:	 In Ohio, natural gas represents 58% of the total installed capacity while coal represents 26% and nuclear 8%. In PJM, natural gas and coal are 49% and 21% of total installed capacity, while nuclear represents 18%.
Interconnection Requests:	 Solar represents 54% of new interconnection requests while natural gas represents 20% of new requests.
Deactivations:	 4 MW of generation deactivated in Ohio in 2024.
RTEP 2024 :	Ohio's 2024 RTEP project total represents approximately \$2.8 billion in investment.



Executive Summary

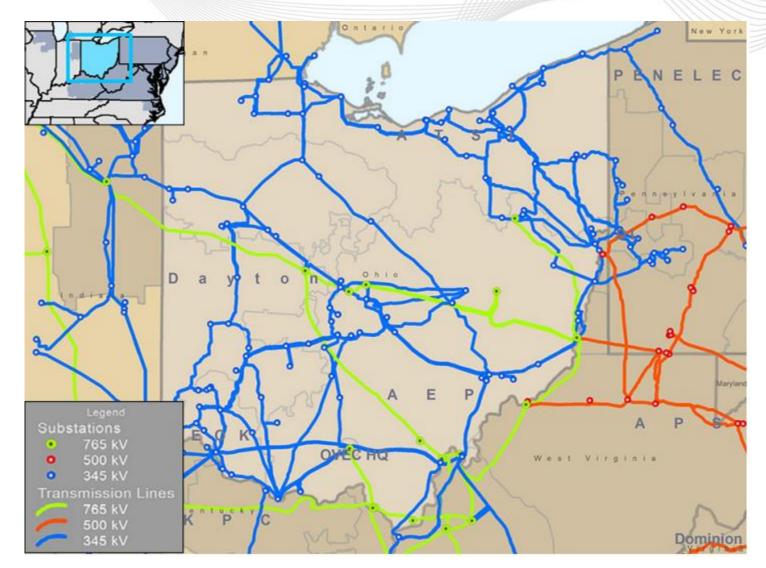
2024 Ohio State Infrastructure Report

In the Ohio service territory:

Load Forecast:	Ohio's summer peak load is projected to increase by 0% to 6.9% percent annually over the next ten years, while the winter peak is projected to increase by 0% to 8.2% percent, depending on the transmission zone.
Capacity Market:	Ohio's service territory cleared at the RTO clearing price, \$269.92, for the 2025/2026 Base Residual Auction.
Market Performance:	Ohio's average hourly LMPs were aligned with the PJM average hourly LMP.
Emissions:	Ohio's average CO_2 emissions decreased in 2024 compared to 2023 levels.

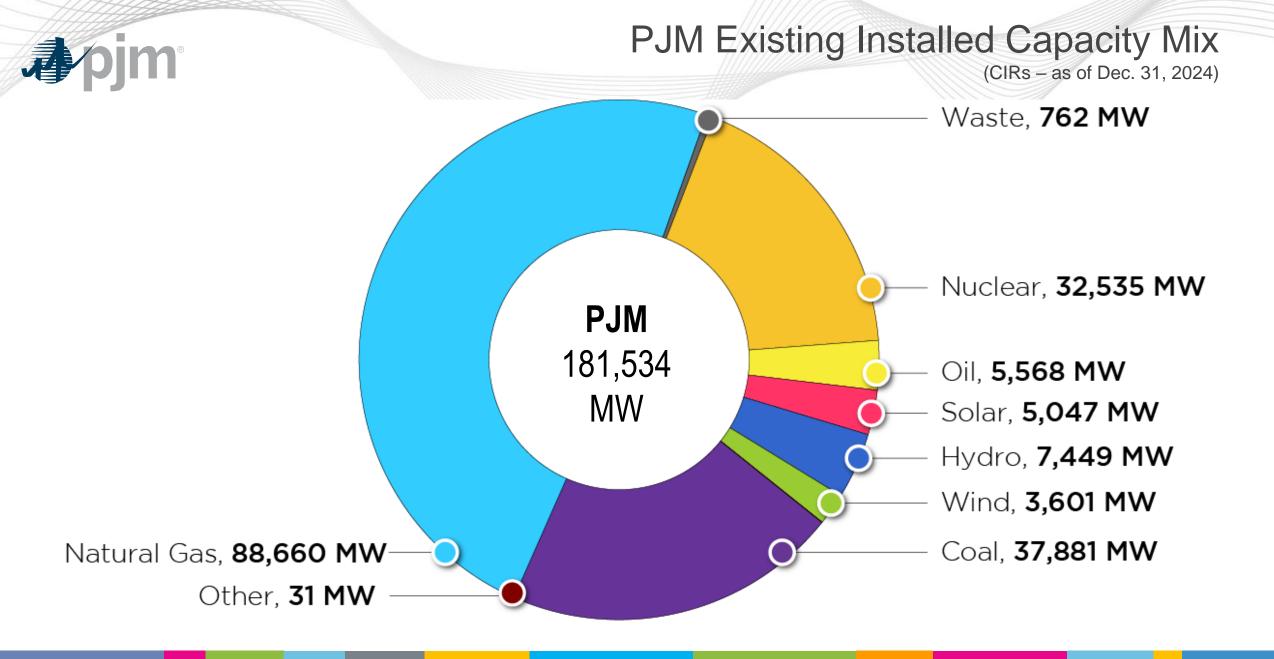


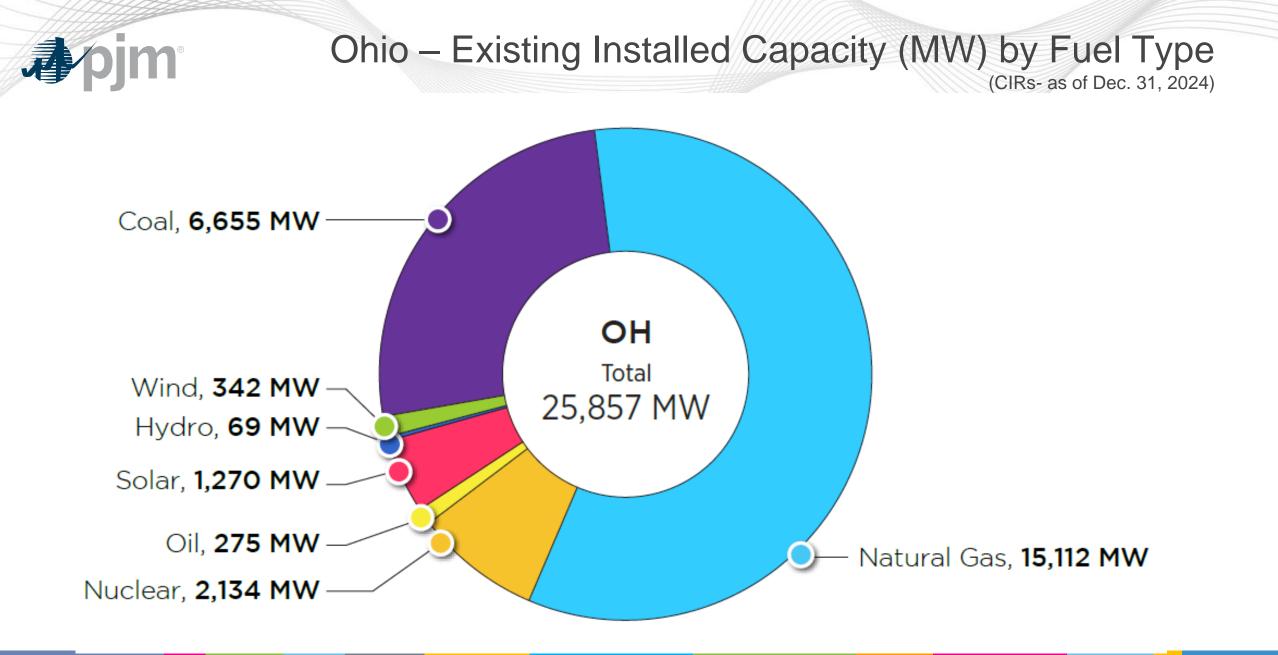
PJM Service Area in Ohio

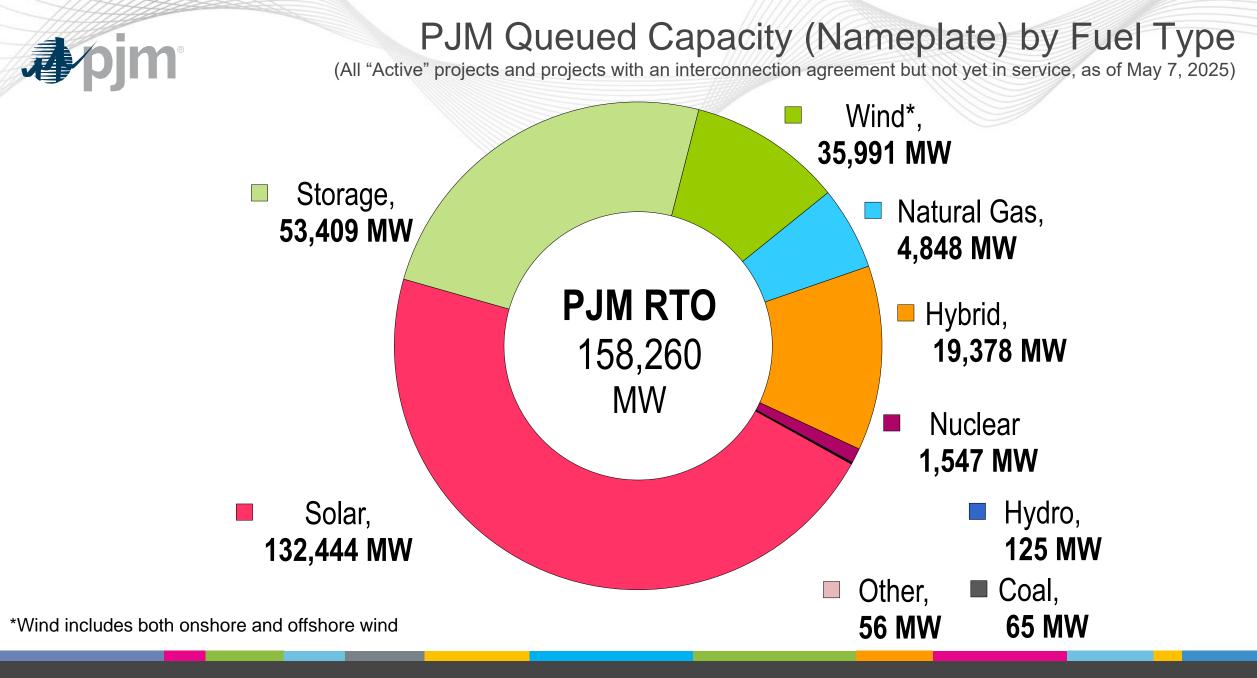




Planning Generation Portfolio Analysis

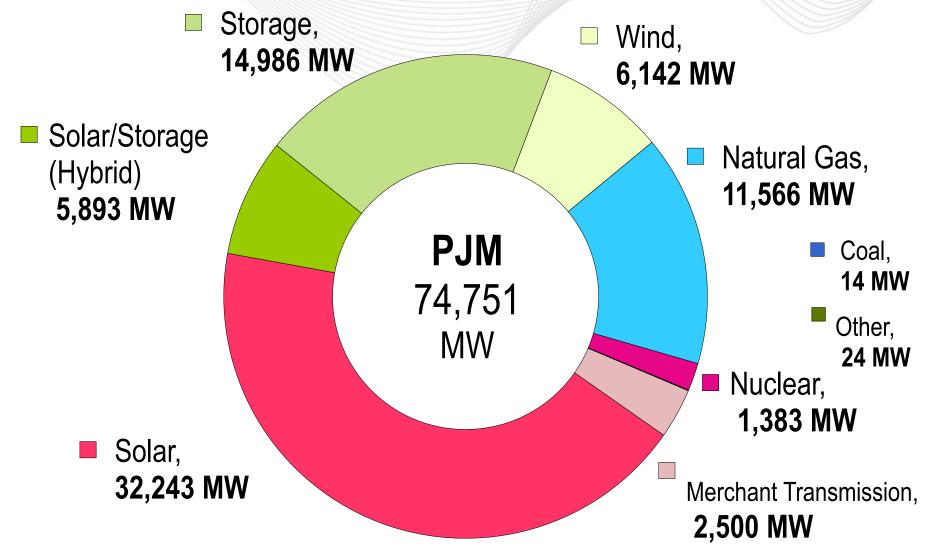


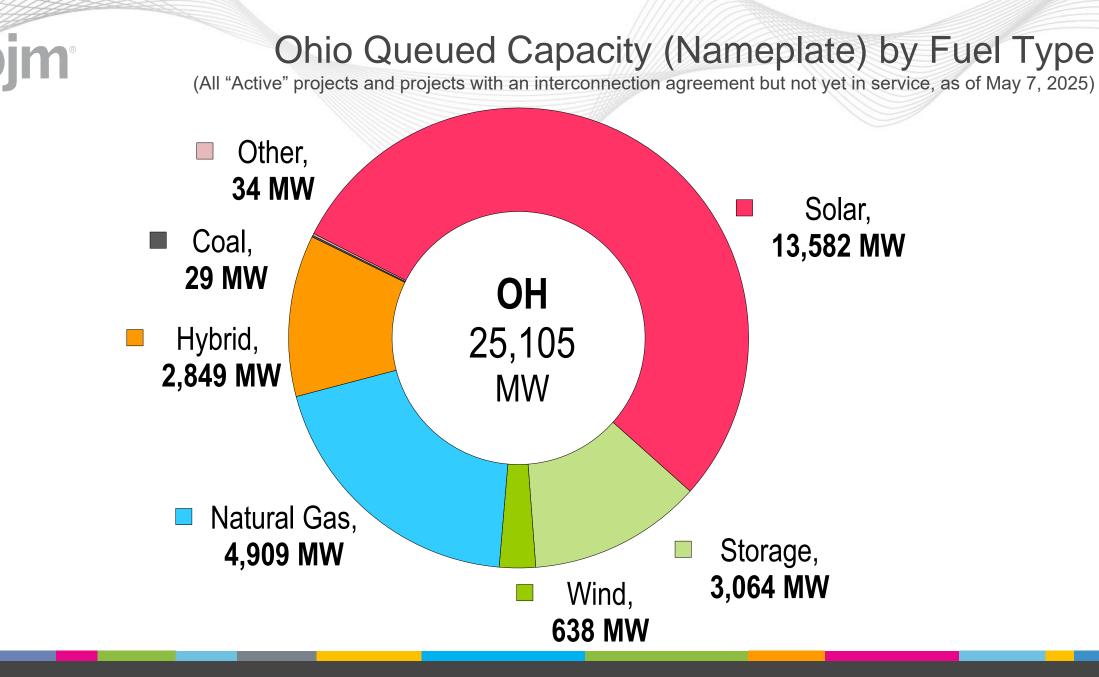




PJM Interconnection Queue Transition

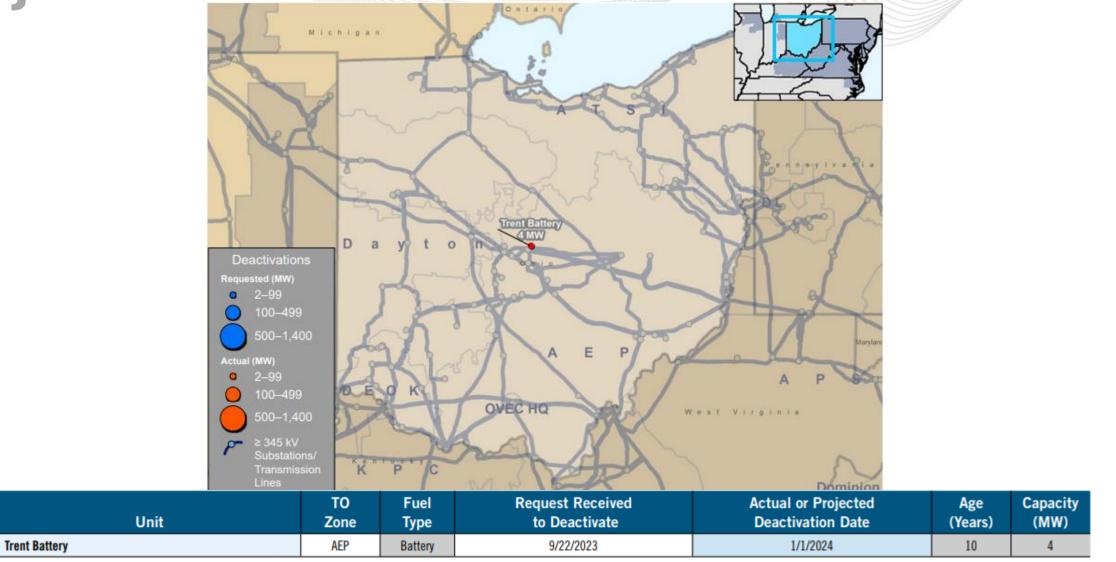
Projects remaining in Transition Cycle 1 and Transition Cycle 2, including projects selected through the Reliability Resource Initiative (June 2025)







Ohio – 2024 Generator Deactivations





Planning Transmission Infrastructure Analysis



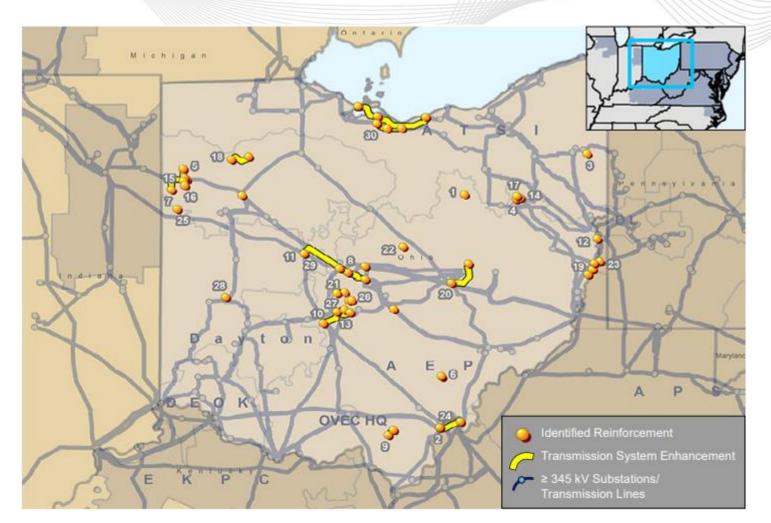
For reporting purposes, the 2024 state infrastructure reports provide maps displaying all baseline, network, and supplemental projects for the respective state. The reports also include aggregated project costs for each type of project within each state. The costs listed in the state infrastructure reports 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: <u>https://www.pjm.com/-/media/DotCom/library/reports-</u> 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: <u>https://www.pjm.com/planning/m/project-construction</u>.



Ohio Baseline Projects

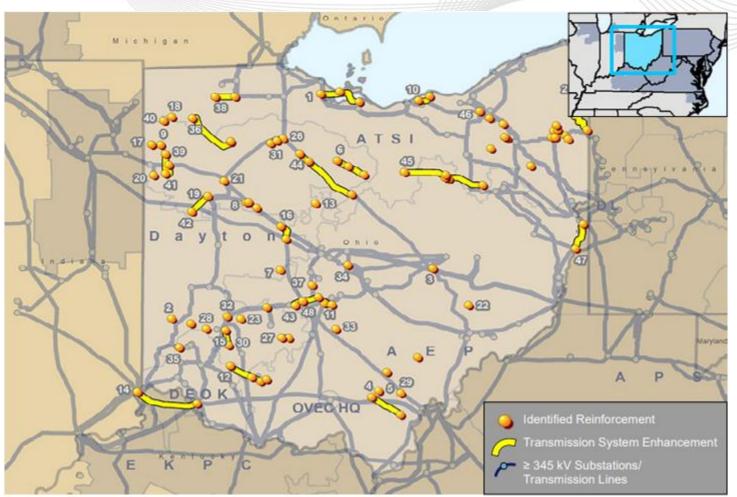


The 2024 RTEP has \$724.05 million in baseline projects located in Ohio.

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.



Ohio Network Projects

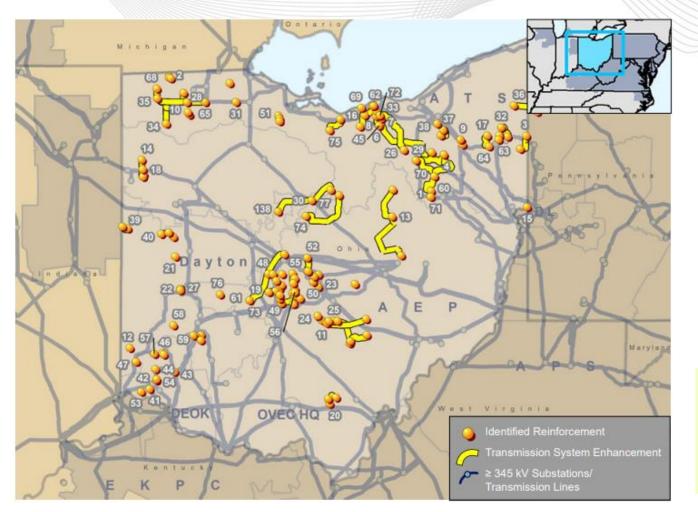


The 2024 RTEP has \$169.92 million in network projects located in Ohio.

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.



Ohio Supplemental Projects

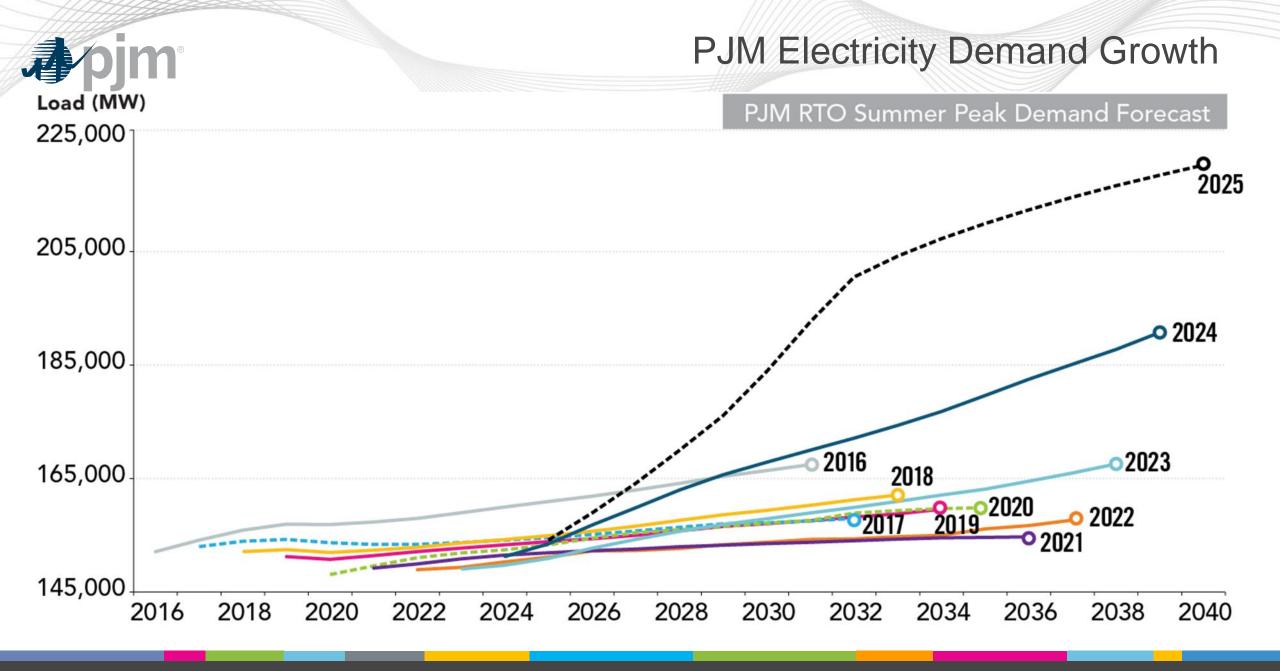


The 2024 RTEP has \$1.907 billion in supplemental projects located in Ohio.

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.

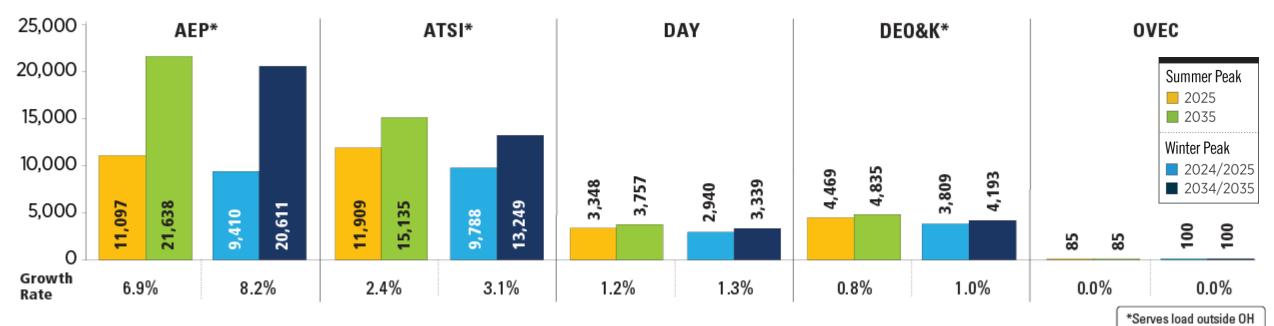


Planning Load Forecast



Ohio – 2025 Load Forecast Report



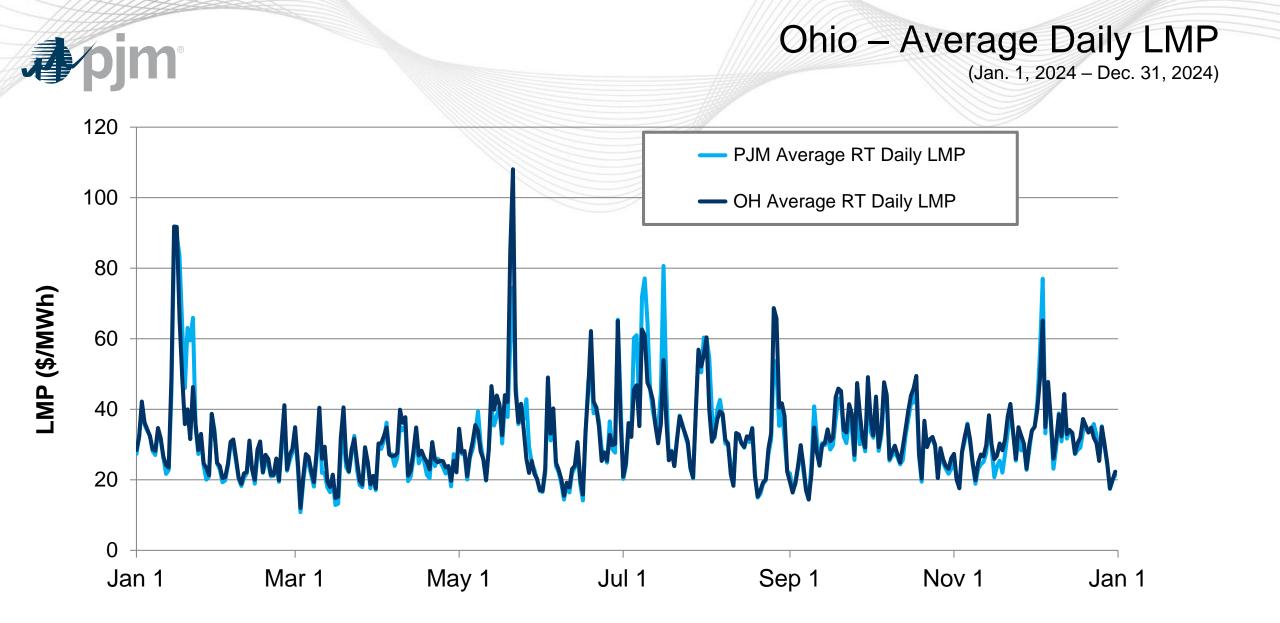


The summer and winter peak megawatt values reflect the estimated amount of forecast load to be served by each transmission owner in the noted state/district. Estimated amounts were calculated based on the average share of each transmission owner's real-time summer and winter peak load in those areas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





Markets Market Analysis



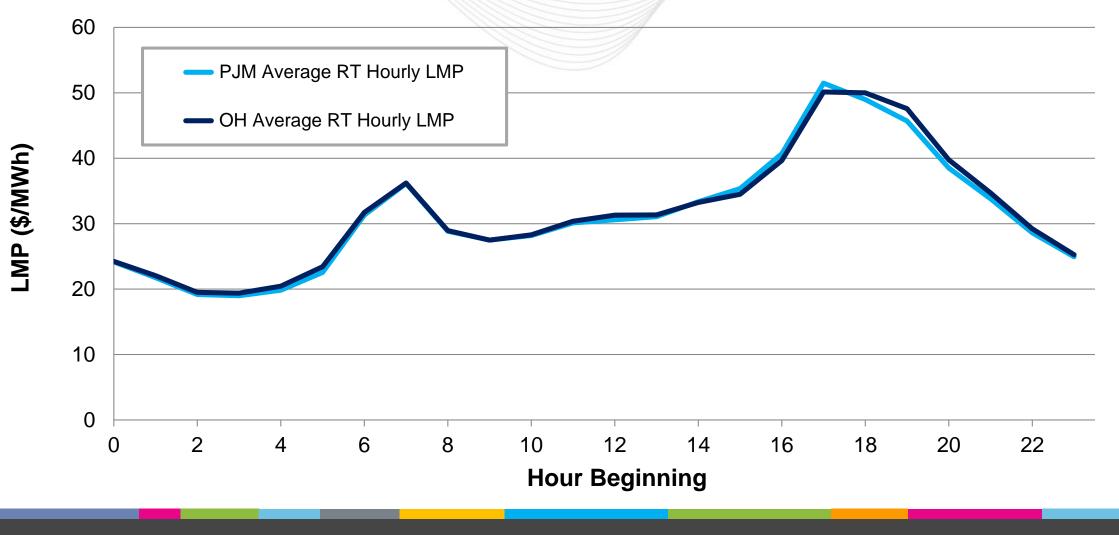
www.pjm.com | Public



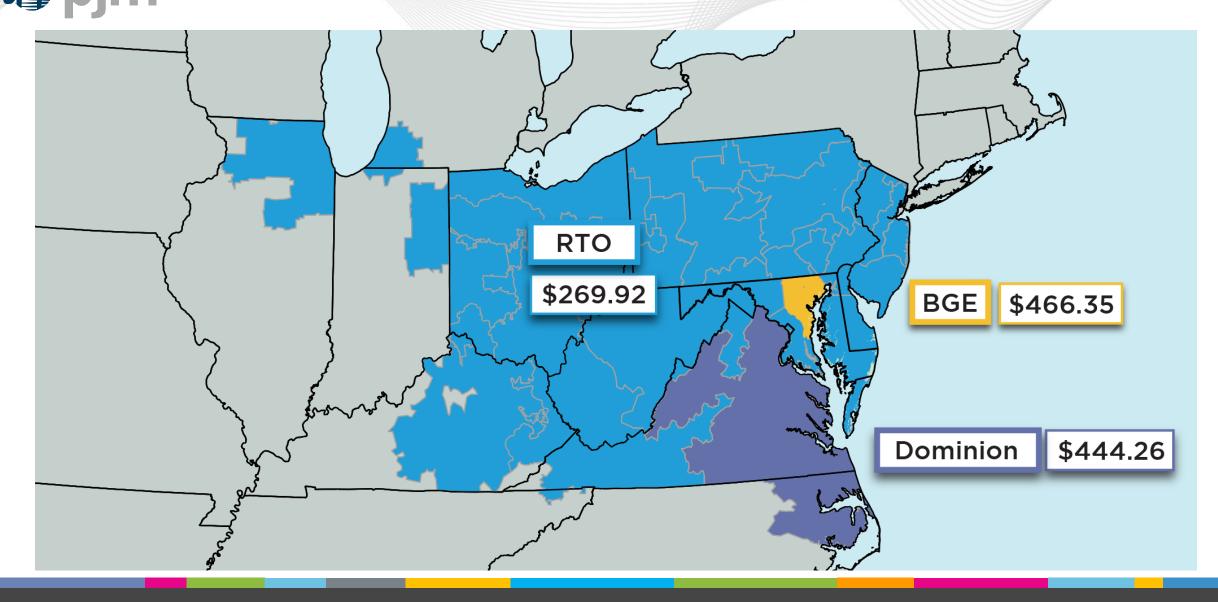
Ohio – Average Hourly LMP

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

Ohio's average hourly LMPs were consistent with 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.

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

Locational Price Adder is with respect to the immediate parent LDA

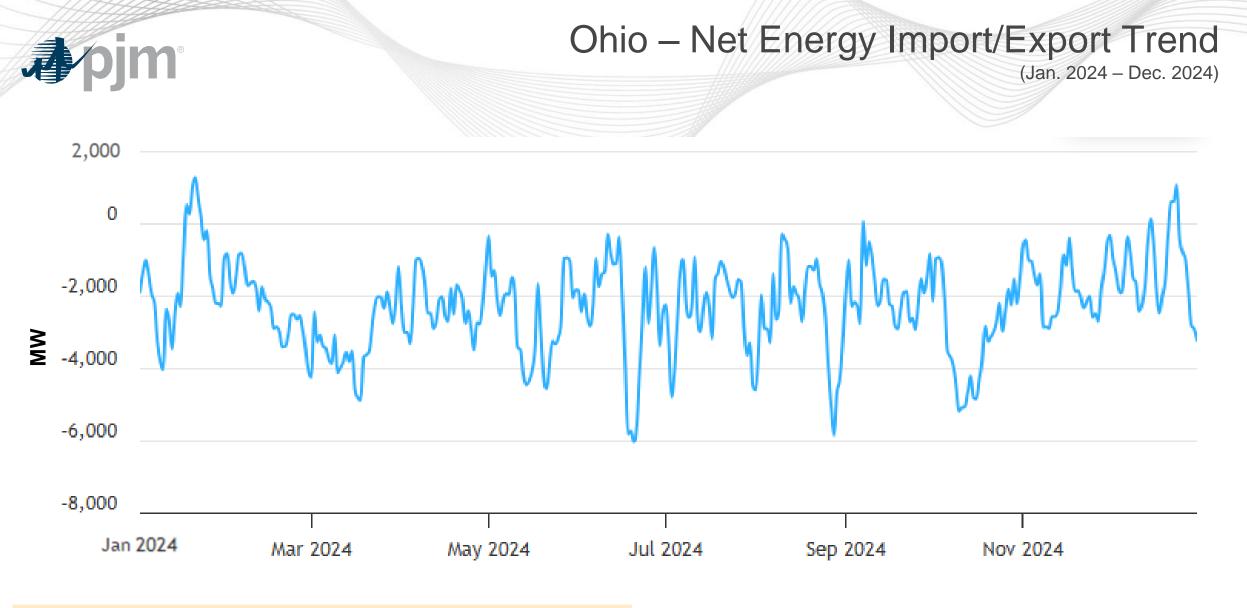


2025/2026 Cleared MW (UCAP) by Resource Type

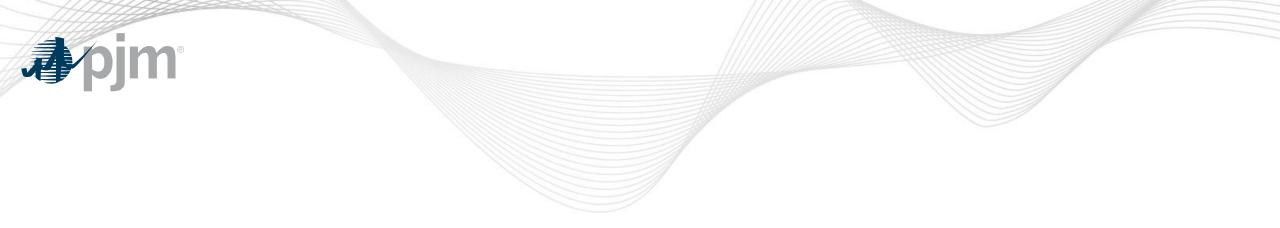
CAPACITY PERFORMANCE

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



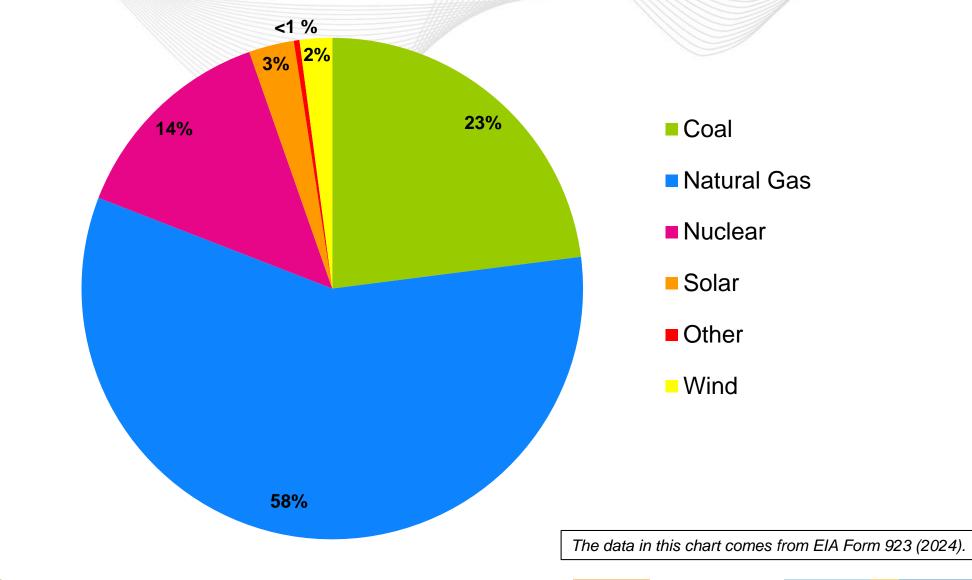
Positive values represent exports and negative values represent imports.

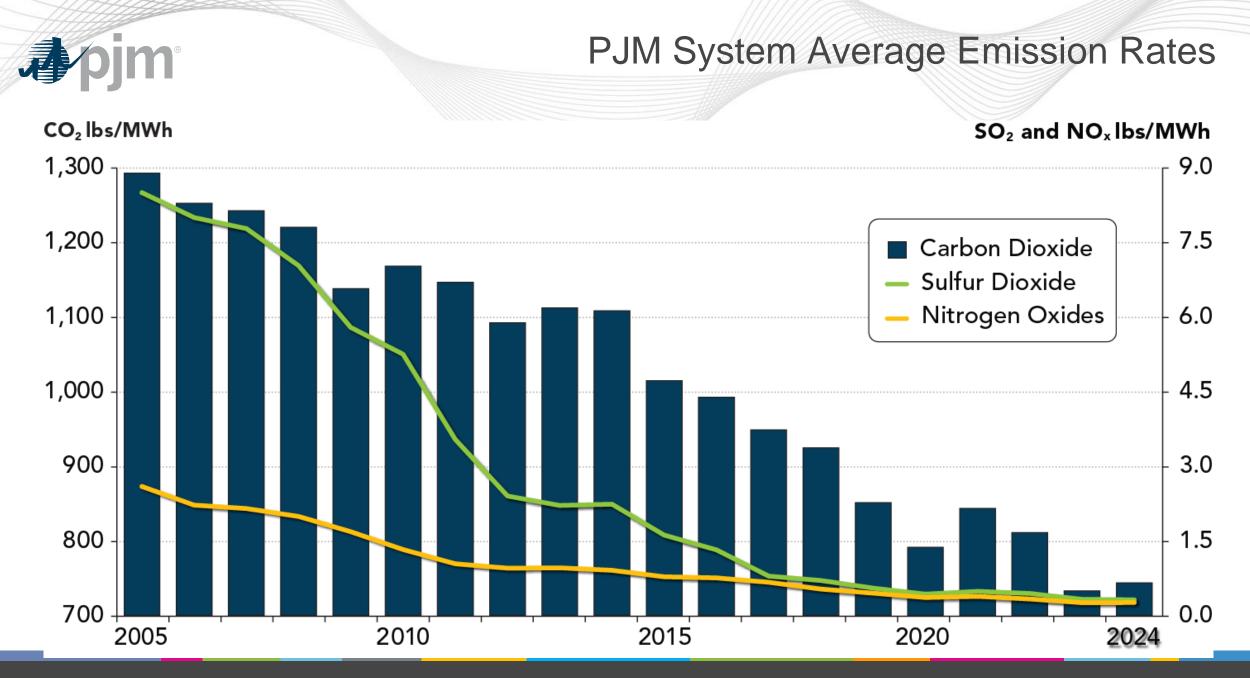


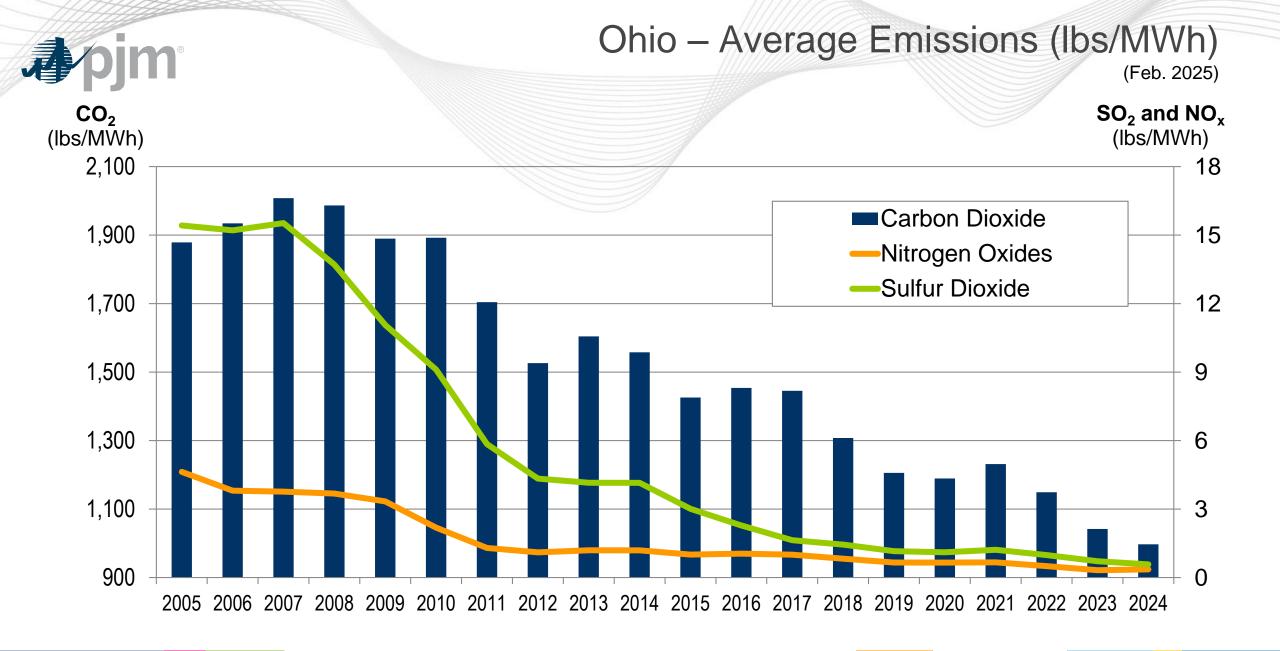
Operations



Ohio – 2024 Generator Production







www.pjm.com | Public