

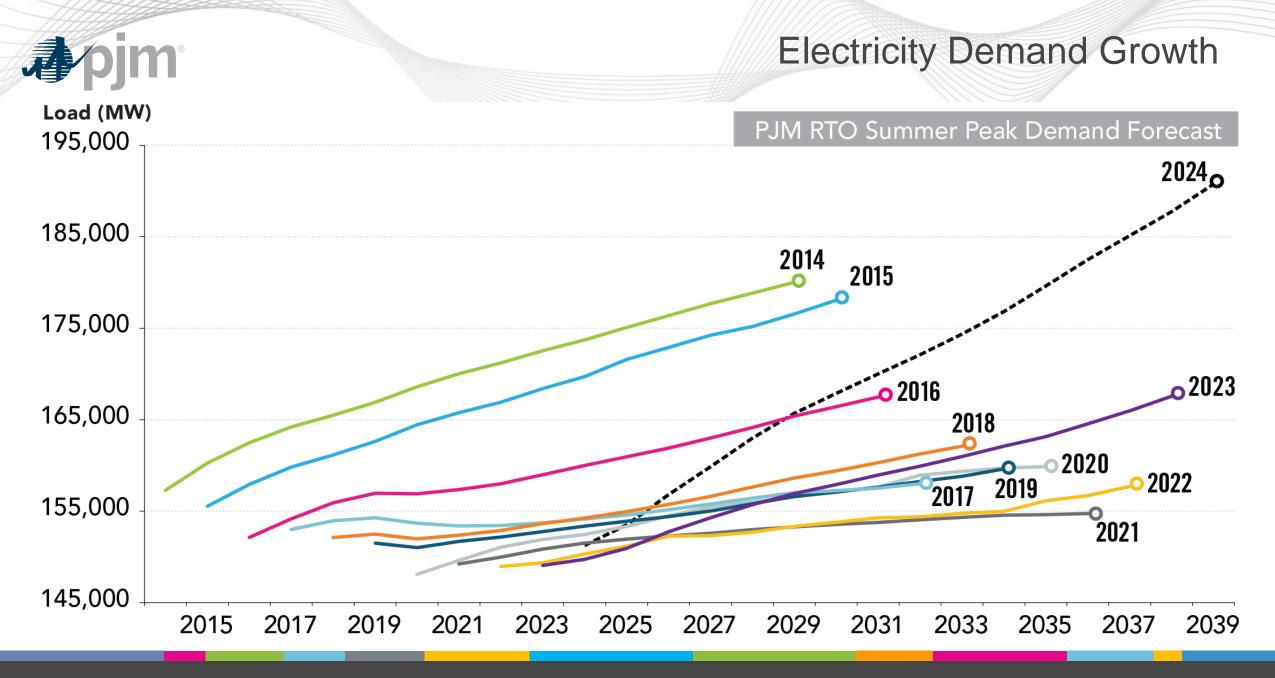
Maryland's Near-Term Challenge: Preserving Resource Adequacy During a Period of Transition

Maryland House of Delegates Economic Matters Committee

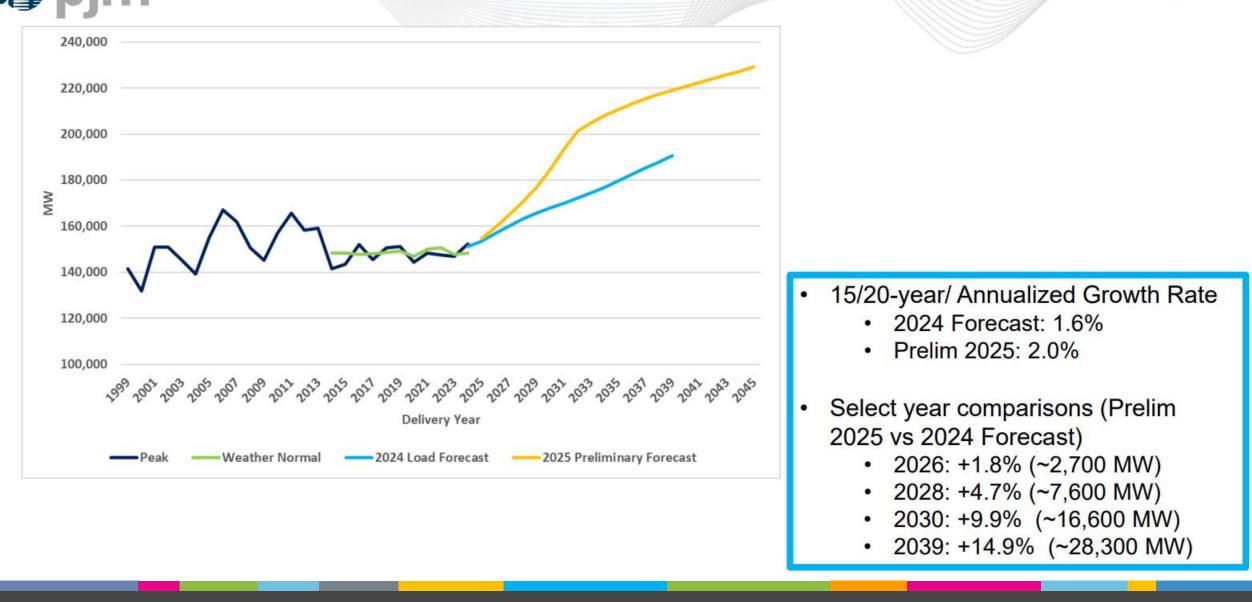
January 15, 2025

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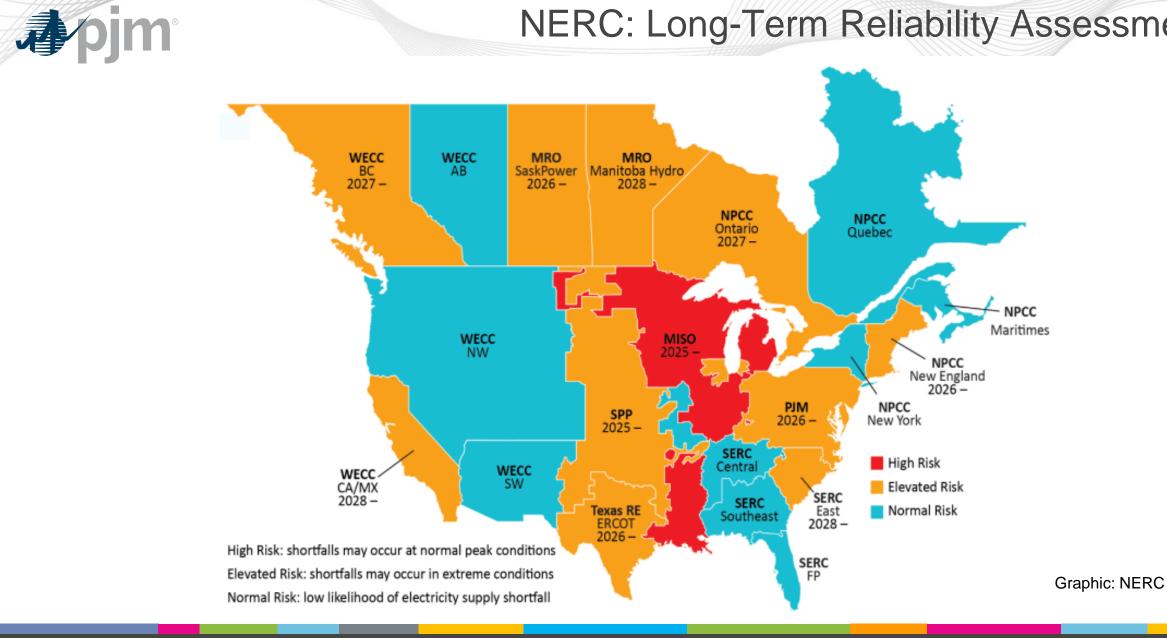




Summer Forecast Comparison 2024 vs 2025 Preliminary



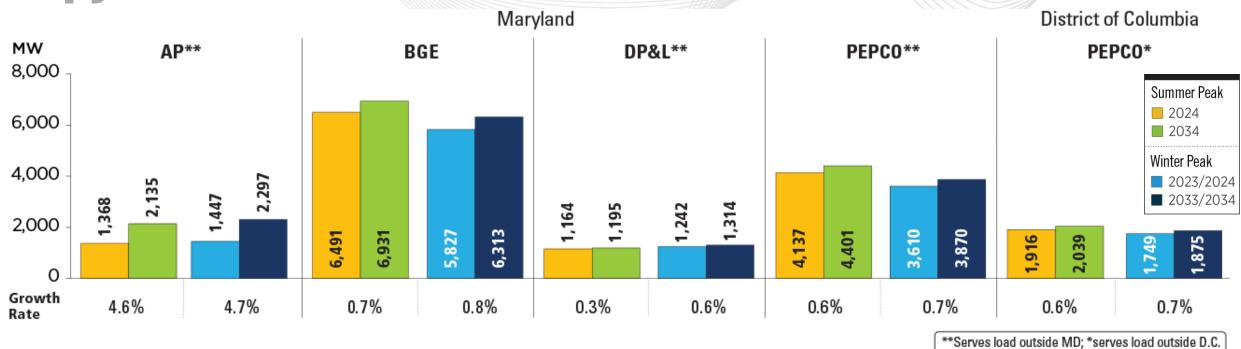
NERC: Long-Term Reliability Assessment



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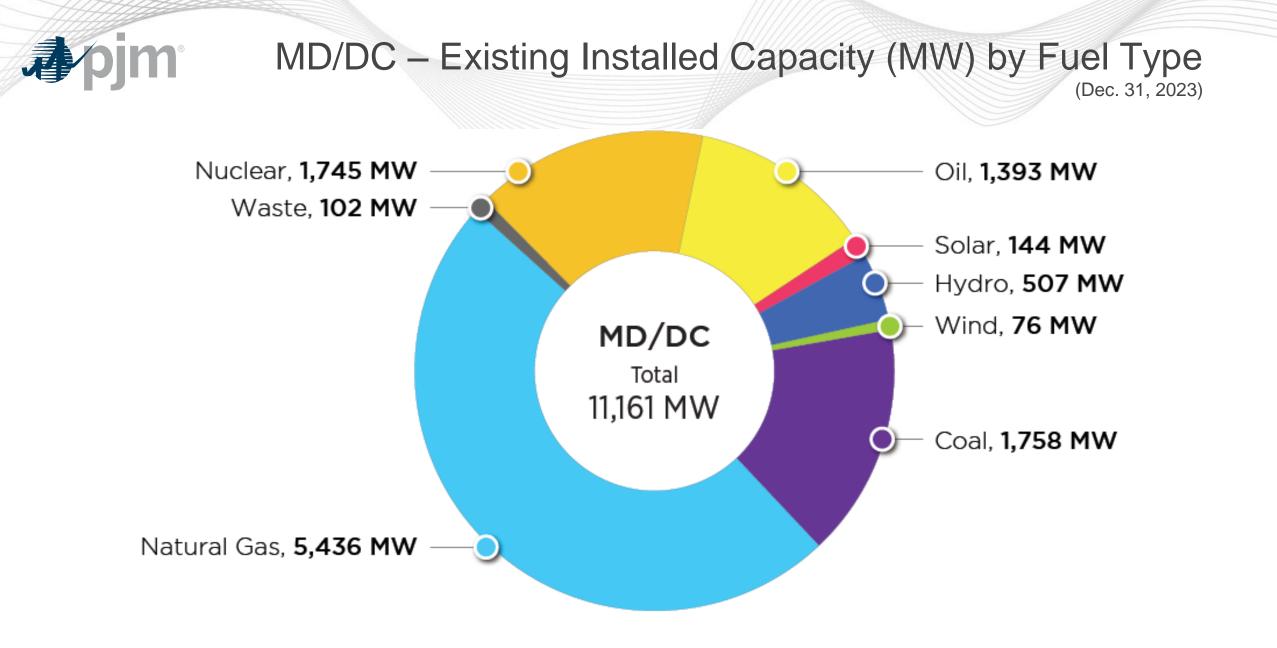
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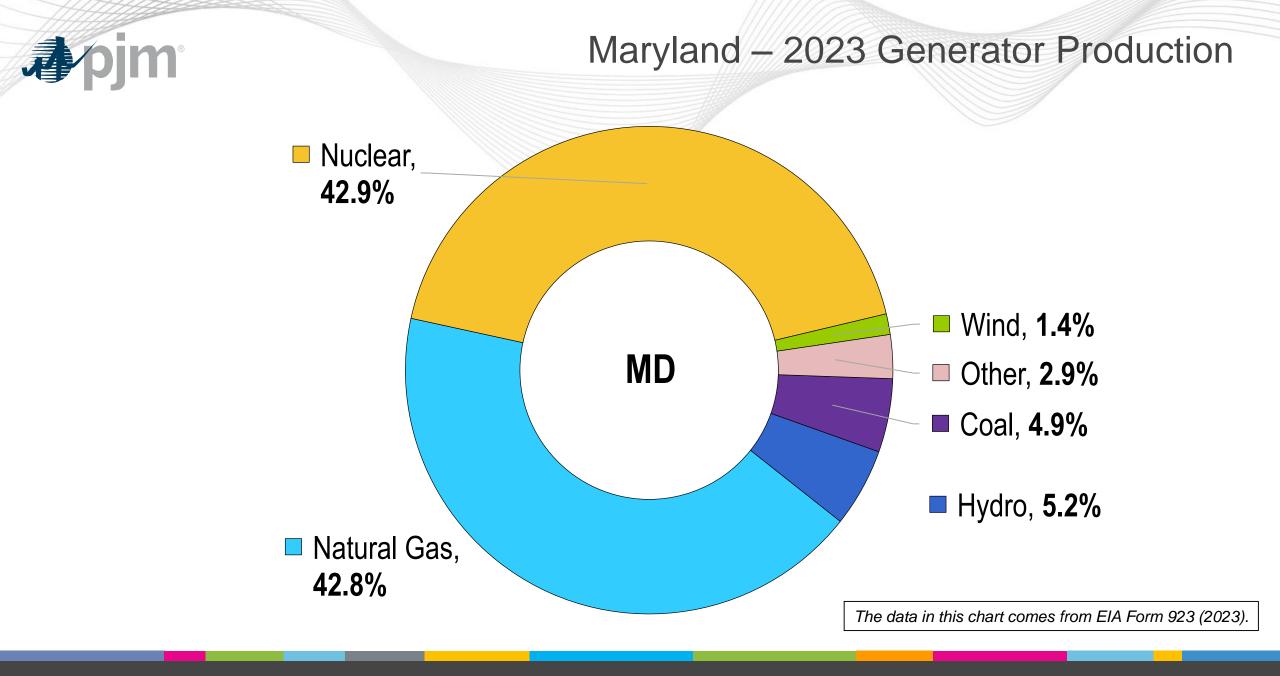
Maryland Utilities – 2024 Load Forecast Report



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.

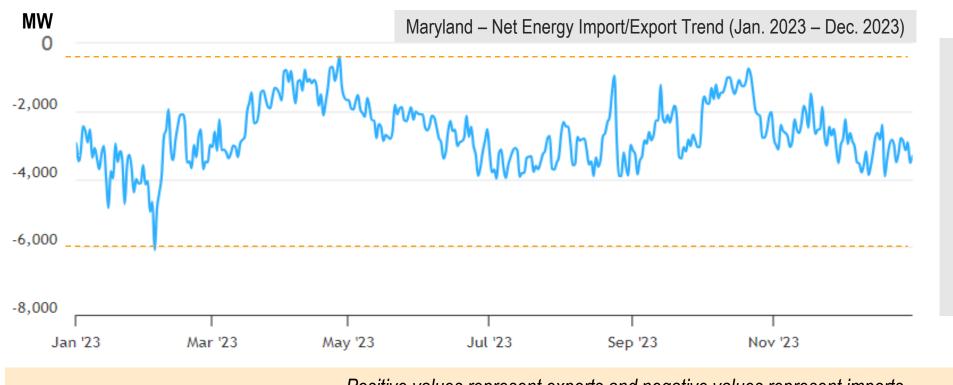






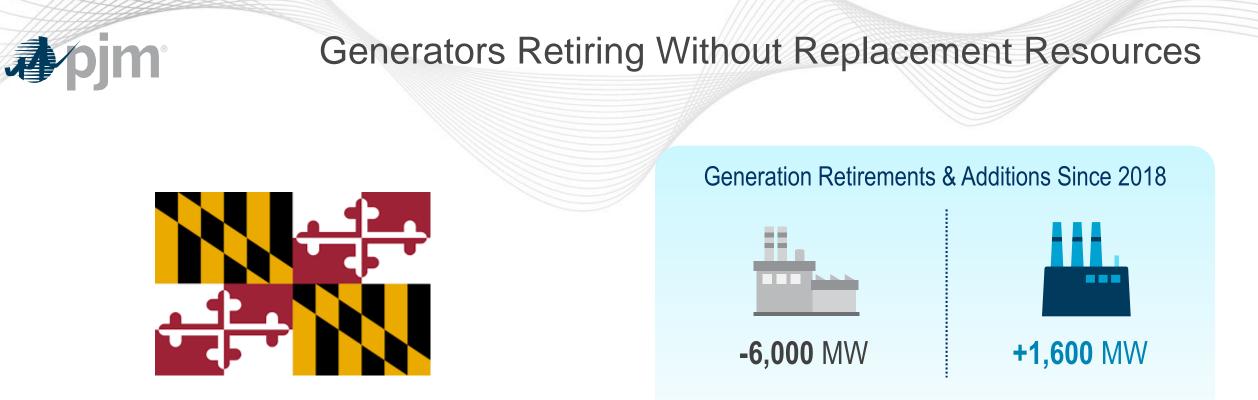


Historically, Maryland has imported about 40% of its annual electric needs from other states. For example, in 2023 hourly imports were between 1,000 MW and 6,000 MW.



Takeaway: The lack of economic, in-state supply of locally available power makes Maryland more vulnerable to higher capacity prices.

Positive values represent exports and negative values represent imports.



Takeaway: Maryland, already an importer of power, has seen the retirement of 6,000 MW of resources since 2018 and the addition of only 1,600 MW of resources during that time frame.

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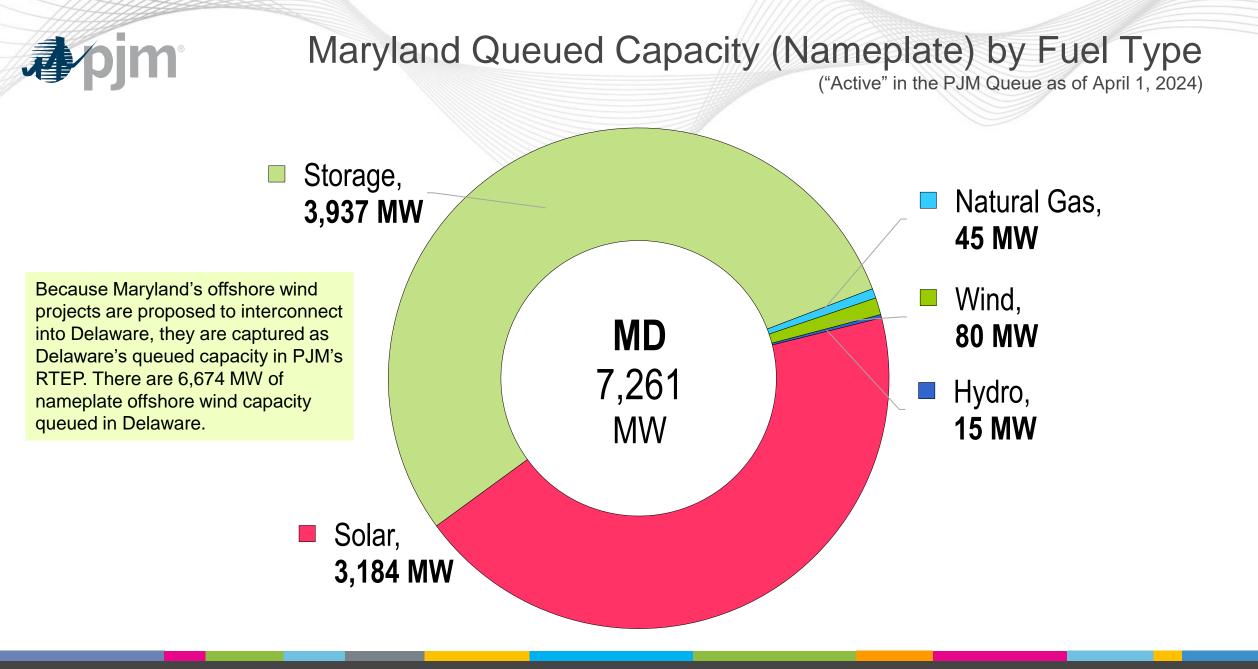
Maryland – Generator Deactivation Requests

Unit	TO Zone	Fuel Type	Request Received to Deactivate	Actual or Projected Deactivation Date	Age (Years)	Capacity (MW)
Dickerson CT1			7/25/2022	10/23/2022	55	18.0
Morgantown CT2		Oil	4/12/2022	10/1/2022	51	16.0
Morgantown CT1	PEPC0			10/1/2022	52	16.0
Morgantown Unit 2		Coal	6/9/2021	5/31/2022	50	619.4
Morgantown Unit 1				5/51/2022	51	613.3
Unit	TO Zone	Fuel Type	Request Received to Deactivate	Actual or Projected Deactivation Date	Age (Years)	Capacity (MW)
Morgantown CT 6		Oil	12/22/23			
Morgantown CT 5	PEPCO			6/1/2024	50	54
Morgantown CT 4					50	54
Morgantown CT 3						
Wagner CT 1					56	13
Wagner 4	DOF	Oil	10/16/23	011/2025	51	397
Wagner 3	BGE	Coal		6/1/2025	64	305
Wagner 1		Natural Gas			67	126
Warrior Run GEN1	AP	Coal	9/29/23	6/1/2024	21	180
Easton Diesel	DP&L	Diesel	6/9/23	10/1/2023	9	2
Brandon Shores 2	DOF	0.1	1/0/00	0/1/0005	32	643
Brandon Shores 1	BGE	Coal	4/6/23	6/1/2025	39	639
Vienna 10	DDU	0:1	2/24/22	0/1/2025	55	14
Vienna 8	DP&L	Oil	3/24/23	6/1/2025	51	153



Illustrative PJM 2030 Reliability Scenario Balance Sheet

Study Year: 2030/31 Forecasted Summer Peak: 167,876 Preliminary Forecast Pool Requirement: 0.9296		No New Entry (GW)	40% New Entry (GW)	62% New Entry (GW)	100% New Entry (GW)			
	2025/26 ELCC Adjusted Offered Capacity*	145	145	145	145			
Supply	ELCC Adjusted Forecasted Deactivations (2025-2030)	-17	-17	-17	-17			
SL	ELCC Adjusted New Resource Entry Rate	0%	40%	62%	100%			
	ELCC Adjusted New Resource Entry	-	18	28	45			
	Total ELCC Adjusted Available Capacity	128	146	156	173			
Demand	Preliminary Reliability Requirement (Forecast Summer Peak * Forecast Pool Requirement)	156	156	156	156			
	Balance Sheet	-28	-10	0	+17			
*Includes estimated FRR resources committed for the 25/26 Delivery Year.								

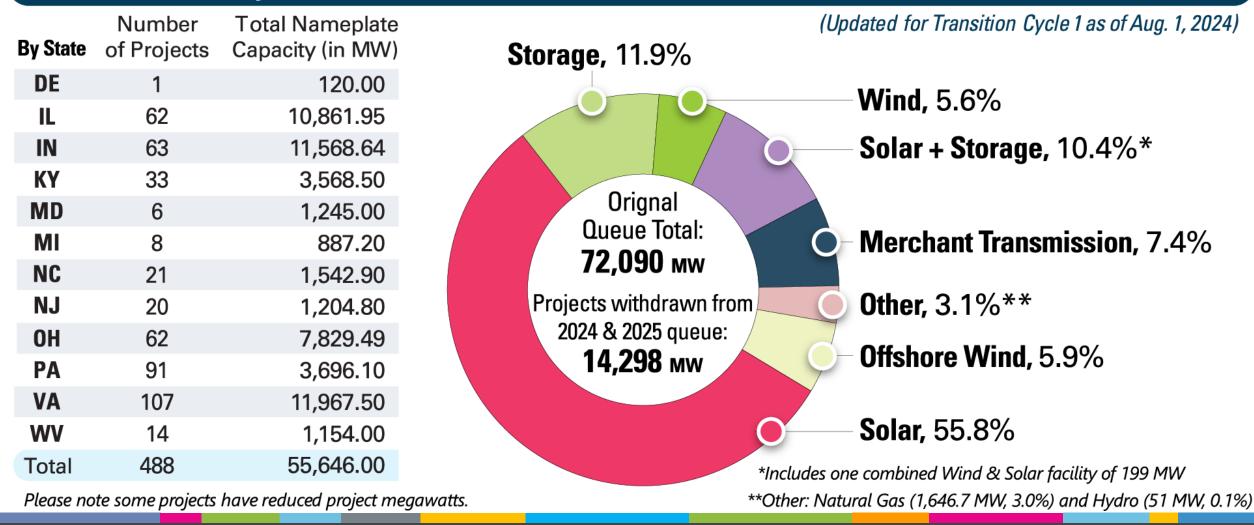


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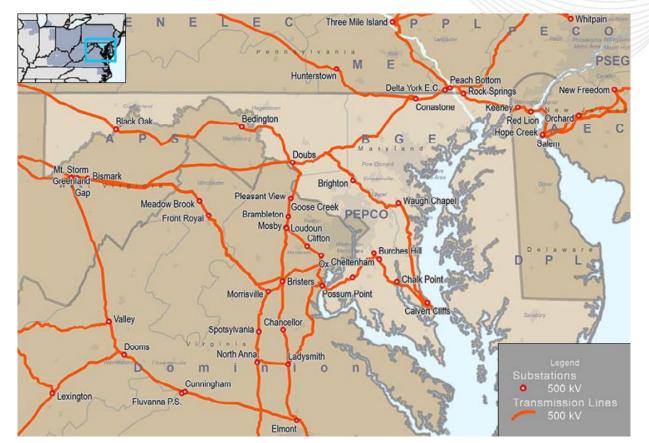
Projects To Clear PJM Interconnection Process in 2024 and 2025

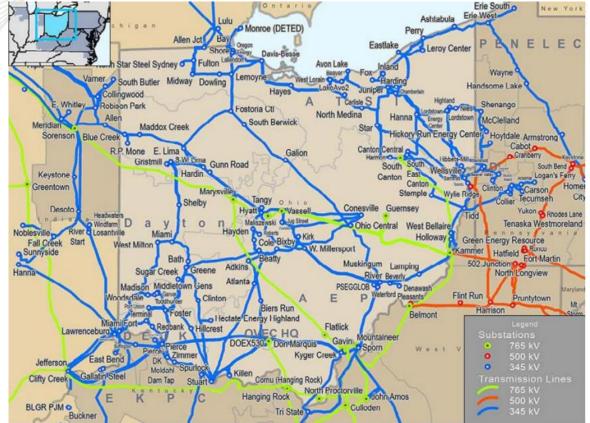
Projects To Clear PJM Interconnection Process in 2024 and 2025



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Existing High-Voltage Transmission in Maryland v. Ohio



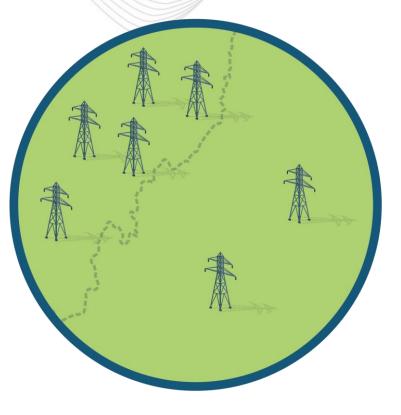




Limited Transmission Infrastructure in Maryland

High-Voltage Electric Transmission Infrastructure Enhancements Are Presently Limited

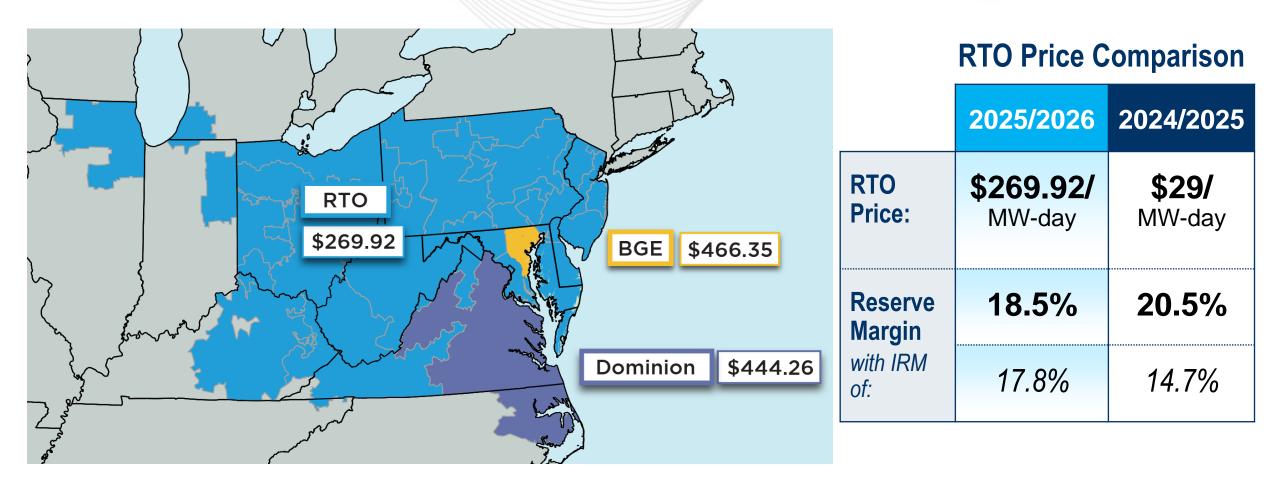
The western part of the state enjoys access to a robust electric transmission system, but the central and eastern parts of the state have limited access. This increases the reliance on extensive power transfer imports to the zones where capacity shortfalls may exist.



Takeaway: This results in local congestion pricing increases in Maryland's central/eastern zonal energy market.



BGE Zone Hits Cap in 2025/2026 Capacity Auction





Current Queue Reform Filings

CIR Transfer **Target:** New generation resources swapping-in for a deactivating generator don't need to go through queue

Potential Outcome: Permanent modifications to the process

Reliability Resource Initiative **Target:** Queue opened for new shovel-ready resources that can come online quickly and contribute to reliability

Potential Outcome: One-time expansion of the eligibility criteria for Transition Cycle #2 beyond active requests received prior to September 2021

Surplus Interconnection Service **Target:** Making it easier to add more generation to an existing site for generators that are not able to operate continually 24/7/365 (e.g. adding storage to renewable site)

Potential Outcome: Permanent modification to Surplus Interconnection Service criteria



Policy Takeaways

- States should avoid policies intended to push generation resources off of the system until an adequate quantity of replacement generation is online and has been shown to be operating
- States should address state and local challenges in the deployment of new generation resources and electricity infrastructure, and enact policy to facilitate greater/quicker construction
- States should help to bring new resources onto the system as soon as possible