



Regional Transmission Expansion Planning Update

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& Interregional Planning

Presented to ISAC

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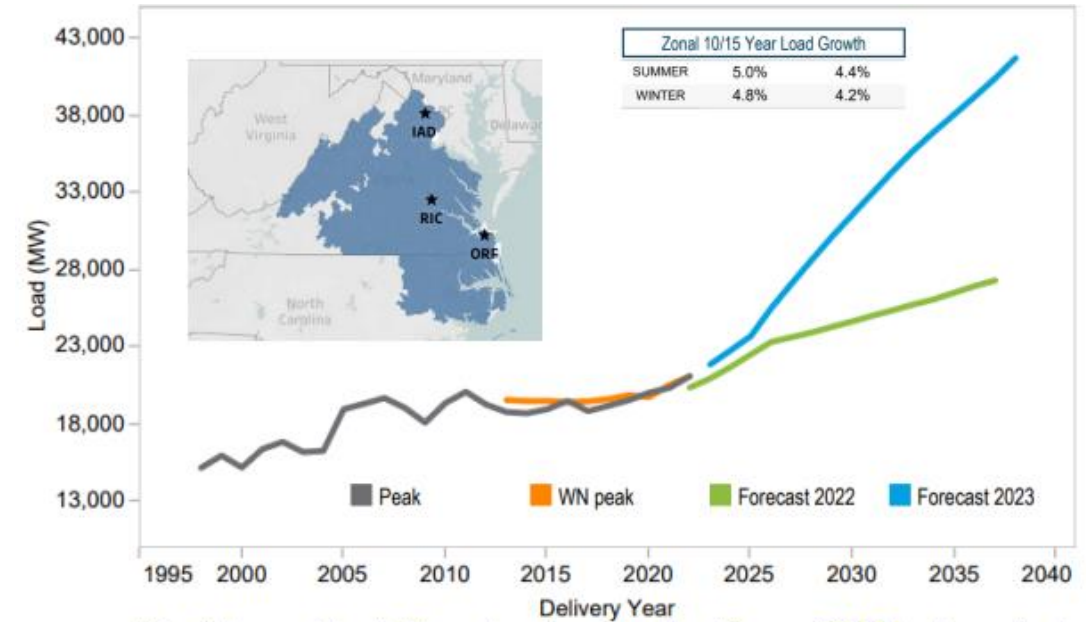
- Reliability Update 2022
- 2023 RTEP Look Ahead
 - Data Center Alley Reliability Window (2022 Reliability Window 3)
 - Long Term 2022/2023 Window
 - 2023 Reliability Window(s)

- Three Competitive Windows opened in 2022:
 - Multi-Driver Window 1 – Closed: Aug 8th 2022
 - RTEP (Reliability) Window 1 – Closed: Aug 30th 2022
 - RTEP (Reliability) Window 2 – Closed: Dec 1st 2022
- PJM Board approval expected in February 2023 (for Multi Driver and RTEP Window 1, clusters 1 and 2)
- PJM Board approval for the RTEP Window 2 – anticipated for July 2023
- 2022 RTEP Window 3 - *To be opened in February 2023*

- 2022 RTEP Multi-Driver Proposal Window No. 1 (January 10, 2023 TEAC)
<https://www.pjm.com/-/media/committees-groups/committees/teac/2023/20230110/item-05---2022-multi-driver-proposal-window-no-1-update.ashx>
- Reliability Analysis Update (January 10, 2023 TEAC)
<https://www.pjm.com/-/media/committees-groups/committees/teac/2023/20230110/item-06---reliability-analysis-update.ashx>

2023 Look Ahead

- Earlier in 2022, PJM shared its forecast for 2022 and indicated high Data Center Load growth activity, particularly in Northern VA
- In July 2022, PJM directed an Immediate Need transmission project to enable the integration of the forecasted load within the Dominion Data Center Alley up to and including year 2025
- Since then, Data Center Loads within Northern Virginia has been increasing at an unprecedented rate (2022 Summer Peak recorded 21,156 MW – Forecast 20,424 MW)
- The 2028 timeframe load will require major transfer reinforcements into the Doubs/Northern Virginia region to support high flows and VAR requirements
- PJM is working towards opening a competitive window in early February 2023 to address the identified violations



<https://pjm.com/-/media/library/reports-notices/load-forecast/2022-load-report.ashx>

- *Typically*, PJM would open a long term window in January of odd-numbered years to address market efficiency drivers and long term reliability needs.
- PJM will delay the opening of the 2022/2023 Long-Term Window until the reliability violations for the 2022 Window 3 are addressed.
- PJM will provide additional details on the delay in an update to stakeholders at the February 7 TEAC meeting.

- Annually, PJM develops new base case models for purpose of performing the annual RTEP baseline analysis, which also forms the basis for the base case used for interconnection planning studies.
- Annually, PJM reviews the planning assumptions that will be used for PJM’s planning analyses. The assumptions are based on a consistent set of fundamental assumptions regarding load, generation and transmission that are built into power flow models. Details of the fundamental assumptions are discussed in Manual 14B, Section 1.3.

- PJM Manual 14B

<https://www.pjm.com/-/media/documents/manuals/m14b.ashx>

- PJM meetings where the assumptions were discussed
 - TEAC – Jan. 10, 2023
 - SRRTEP - Mid-Atlantic – Dec. 14, 2022
 - SRRTEP - South – Dec. 14, 2022
 - SRRTEP - West – Dec. 16, 2022
- TEAC meeting January 10, 2023 – 2023 Reliability Assumptions
- <https://www.pjm.com/-/media/committees-groups/committees/teac/2023/20230110/item-07---2023-rtep-assumption.ashx>

- PJM shared the 2023 RTEP assumptions during the Jan 10 TEAC
- The 2023 RTEP analysis will comply with the requirements of TPL-001-5 (effective date July 1st 2023)
 - ⁽¹⁾Requirement R2 Part 2.7: 7/1/2025 – See Implementation Plan
 - Will account for updated 2023 PJM Forecasts and NJOSW assumptions
- Expected Timeline:
 - November 2022: Establish 2023 RTEP base case modeling assumptions
 - February 2023: Build base cases and perform initial case review
 - February to June 2023: Perform RTEP baseline studies.
 - June/July 2023: Open competitive proposal window and post modeling assumptions changes and corrections
 - July/August 2023: Close competitive proposal window, Finalize mid-year retool
 - August to December 2023: Evaluate proposals
 - October 2023 to February 2024: Approve proposals

- PJM released an email request to Transmission Owners on Jan 11th 2023 to provide “*the annual list of possible EOL needs from each TO for PJM to review and compare to RTEP violations to be posted in the windows*”
 - PJM requested the TOs response by Feb 10, 2023
- PJM will be releasing (through email) the Meeting Material Timeline/Due Dates for SRRTEP and TEAC submissions in Jan 2023.



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ISAC Update

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