PJM Manual 13 rev. 99

Operating Committee
November 5, 2026

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Sr. Manager – Dispatch

Disclaimer: While materials are current at the time of publishing, applicable requirements may change. PJM Governing Documents control.

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Proposed M-13 Changes

- Problem Statement & Issue Charge
  - Capacity Alert
- Clarifying Language under section 2 – Capacity Emergency
  - Maximum Generation Action
- Revised note in Attachment O: Emergency Use of Backup Generation
  - Update to Large Load definition

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Capacity Alert

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Purpose

- The intended purpose of the Capacity Alert is to inform members that PJM projects an available capacity shortfall leading to additional Emergency Procedures (i.e Max Gen / Load Management Alert)
- Issued after Capacity Advisory:
  - In advance of Operating Day
    - Prior to the close of the Day-ahead Market
  - Issued anytime capacity margin is expected to be tight:
    - Generation vs Load Balance
    - Generation Deliverability

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History

- PJM utilized Weather related projections to communicate periods of expected increased demand and increased generator force outage rate:
  - Hot / Cold Weather Alert issued
- Accepted practice when Generation Capacity Exceeded Demand Requirements:
  - Utilized temperature and forecasted weather conditions to communicate possibility of increased generator forced outage
  - Did not properly communicate capacity position

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Current Capacity Notification Framework

Normal Operations → Capacity Advisory → MGE/LM Alert → Emergency Actions

Capacity Advisory

Purpose: Advance notice of projected reserve or capacity concerns.

- Conditions are tightening
- Reliability remains manageable
- Stakeholders review resource availability

Key Message: Awareness notification

Maximum Generation Emergency / Load Management Alert (EEA 1)

Purpose: All available generation committed, communicate possible capacity shortage or reliability concern.

- Emergency preparedness required
- Demand response and other reliability actions may be needed

Key Message: Emergency readiness notification requiring heightened operational focus.

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Need for Capacity Alert

- Generation retirements and Load additions have impacted capacity margins:
  - Capacity Shortages no longer limited to Summer/Winter periods
  - PJM System Operators need an alerting mechanism for member notification of decreased capacity margins:
    - Not associated with temperature triggers
  - Updated unit parameters to schedule generation is key:
    - Utilizing the most up to date information will allow PJM to make timely decisions
  - Transmission outage recall information will help maximize generation deliverability

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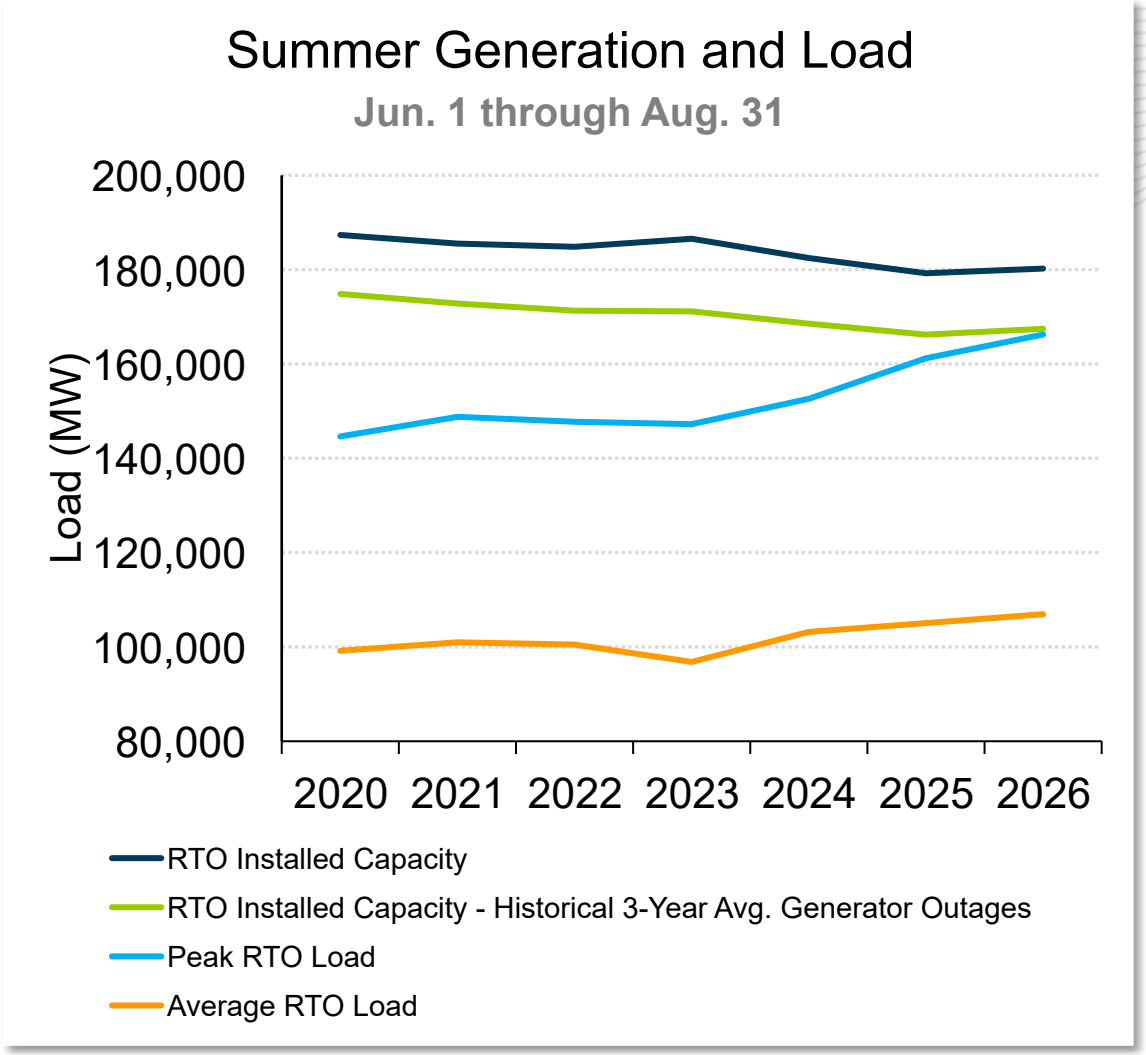
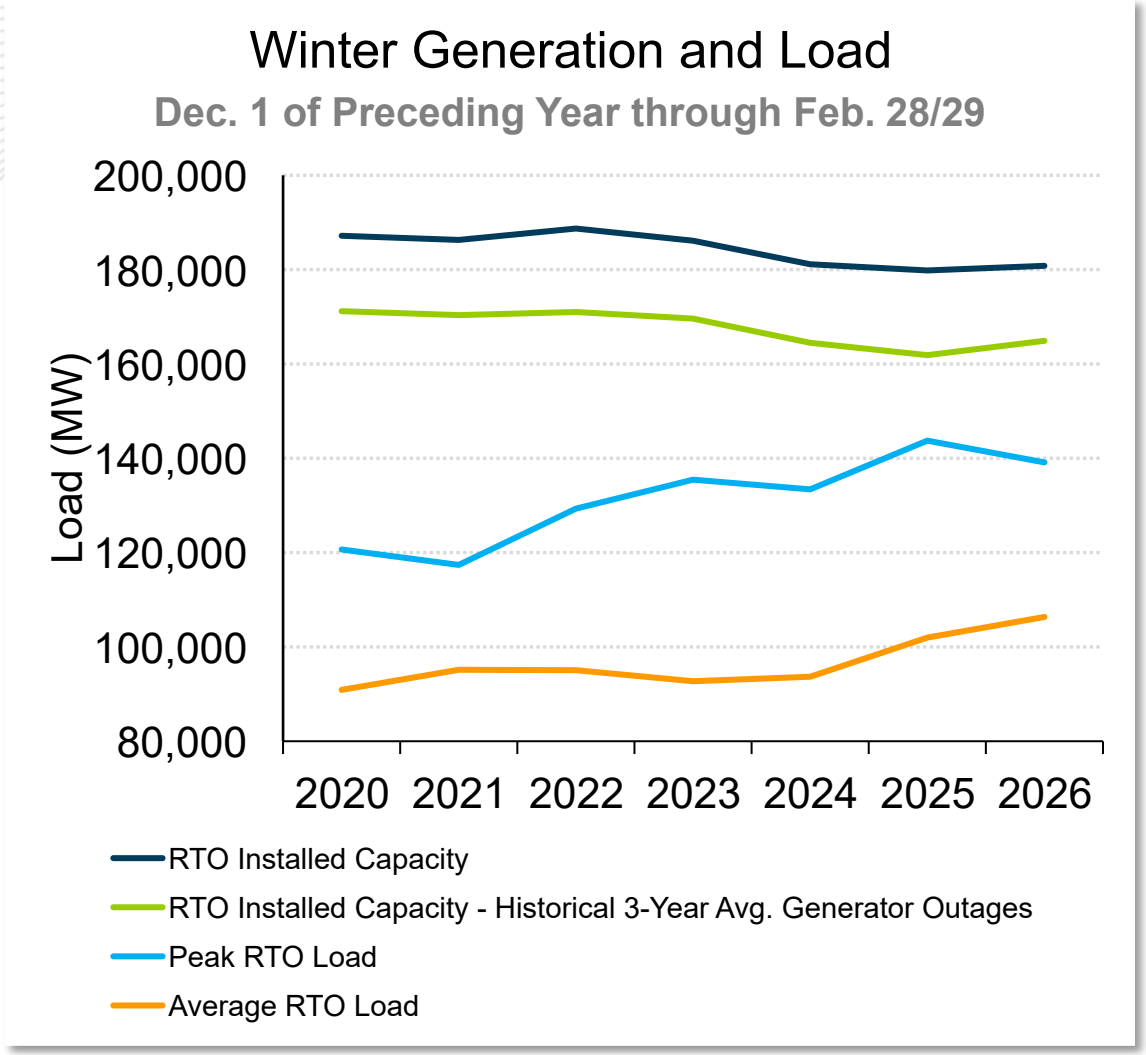
Tightening Load-Generation Balance





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Use Case

- April 14th through April 16th 2026:
  - Hot Weather Alert Issued for Mid Atlantic-Southern Region
    - 60K total generation outages (majority in planned status)
    - Reduced Solar Output based on time of year
  - Temperatures in Mid 80's:
    - Hot Weather Alert issued based on Capacity Position, not temperature
    - Does not provide members with accurate assessment of system conditions

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Use Case (cont.)

- July 15th and July 16th 2025:
  - Maximum Generation / Load Management Alert Capacity Emergency EEA1 issued for RTO.
  - No Hot Weather Alert issued:
    - Temperatures Mid-Upper 80's across RTO
  - Capacity Projection on 7/14 warned of potential shortfall:
    - Higher than normal generator outage rate
    - Solar output limited by cloud cover

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Value

- Advanced communication of projected system conditions critical to maintaining reliability:
  - Increased Situational Awareness for members
  - Improved coordination amongst Generator and Transmission Owners
  - Early warning to prepare for emergency procedures

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Capacity Emergency Maximum Generation Action

- Add clarifying language when PJM dispatches generation to emergency maximum output:

In order to preserve reactive capability, members are to wait for PJM instruction to load maximum emergency generation. It is imperative PJM maintain adequate supply of reactive reserve to ensure generation deliverability during capacity deficient scenarios. PJM will dispatch maximum emergency generation as outlined below while maintaining reactive reserves at sufficient levels.

- Included as Note under Step 4A Maximum Generation Emergency Action

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Attachment O: Emergency Use of Back Generators

- Update Note box to reflect PJM definition of Large Load as approved by FERC under IRAS filing:

Large Load shall mean end-use customer(s) load that has a cumulative peak load of 50 megawatts or greater at a single electrical site behind one or more points of interconnection, where for configurations involving multiple affiliated load facilities or multiple points of interconnection with affiliated load facilities behind them, all affiliated load facilities within a one-mile radius will be considered a single electrical site.

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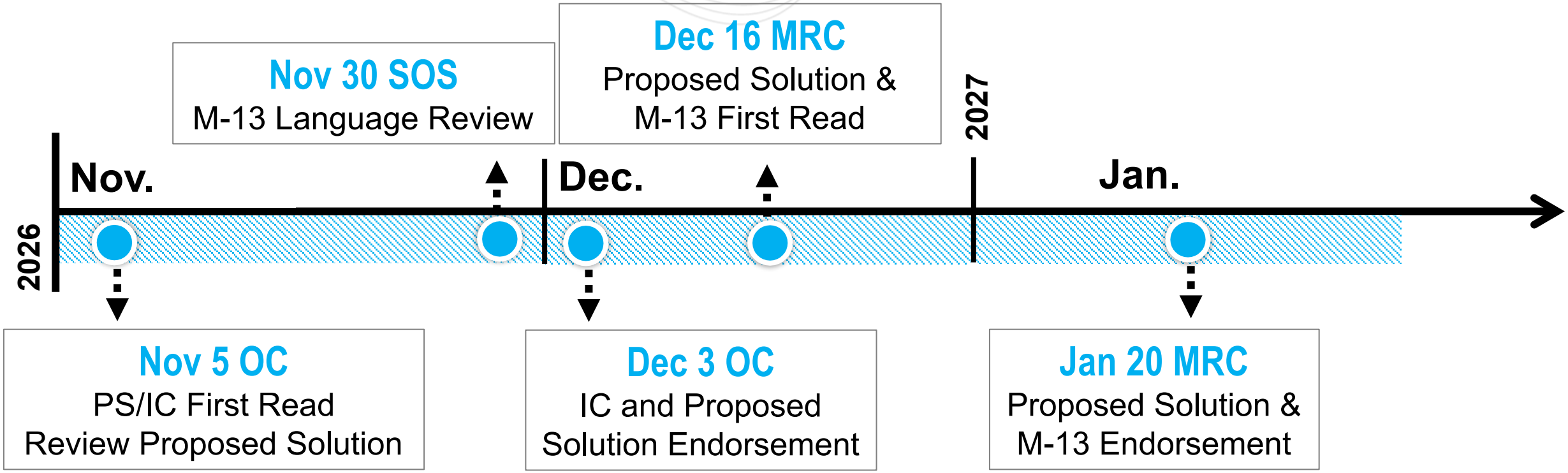
Timeline



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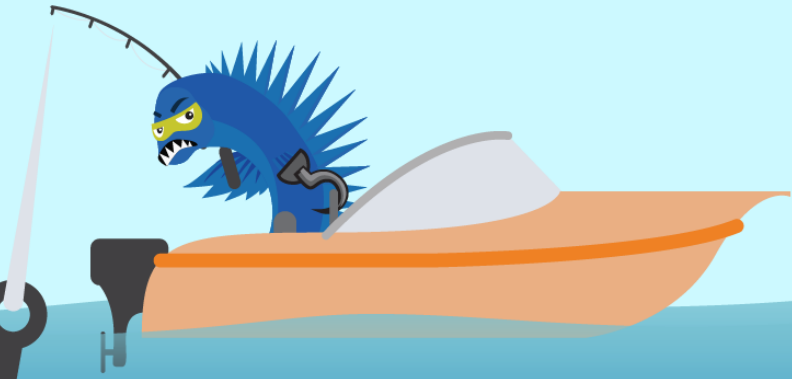
PROTECT THE POWER GRID

THINK BEFORE YOU CLICK!

pjm





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