

Inputs and Modeling

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

PJM independently produces an annual load forecast that is used in transmission planning and markets analysis.



Planning horizon is 20 years.

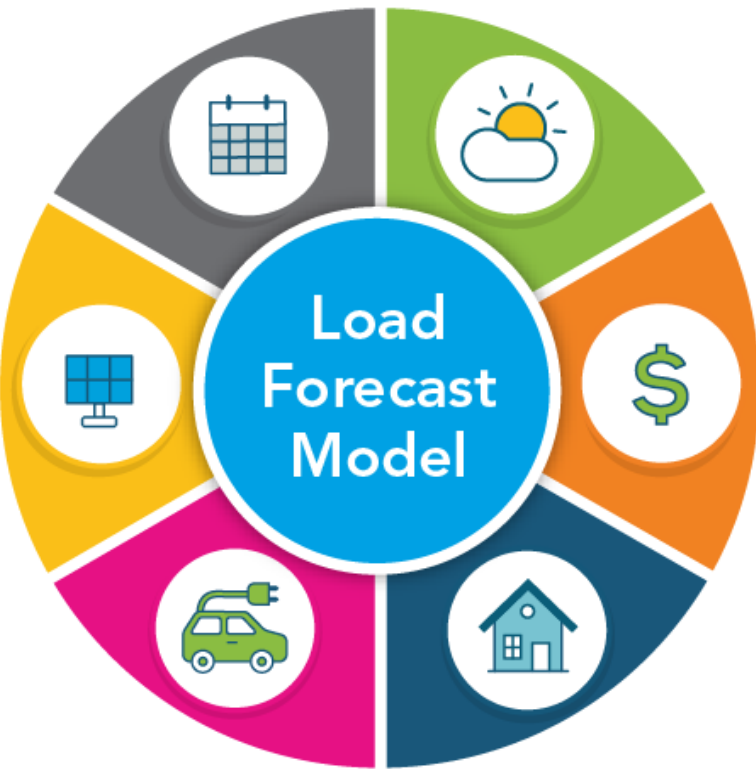


Forecast is based on a multivariable regression model.



Forecast is reviewed with stakeholders and published each December/January.

Model changes and requested load adjustments are reviewed throughout the year with PJM's stakeholder groups – Load Analysis Subcommittee and Planning Committee.



Weather Conditions

- Weighted-average temperature, humidity and wind speed
- Cooling and heating degree days
- 30+ weather stations across PJM



Energy Efficiency/End-Use Characteristics

- Cooling equipment saturation and efficiency
- Heating equipment saturation and efficiency
- Other equipment saturation and efficiency



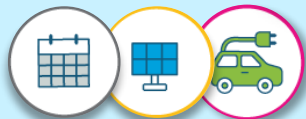
Economic

- Real personal income
- Employment
- Real industrial output
- Households
- Working-age population



Calendar/Solar Data & Electric Vehicles

- Day of week
- Month
- Weekends/Holidays
- Distributed solar generation
- Plug-in electric vehicles



Electric Distribution Companies (EDCs) and Load Serving Entities (LSEs) are encouraged to provide PJM with information about large changes that may not be captured in the forecast process.

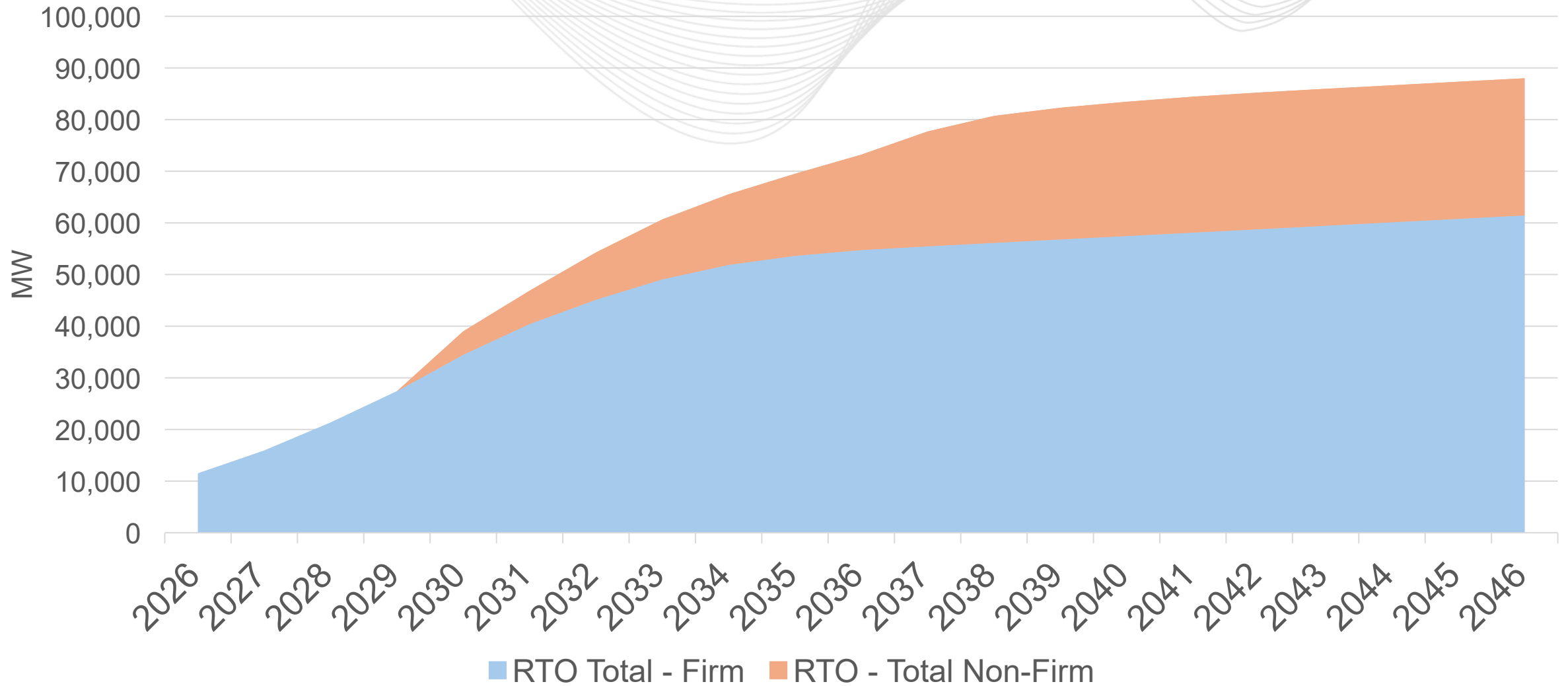
The Process

Manual 19: Attachment B

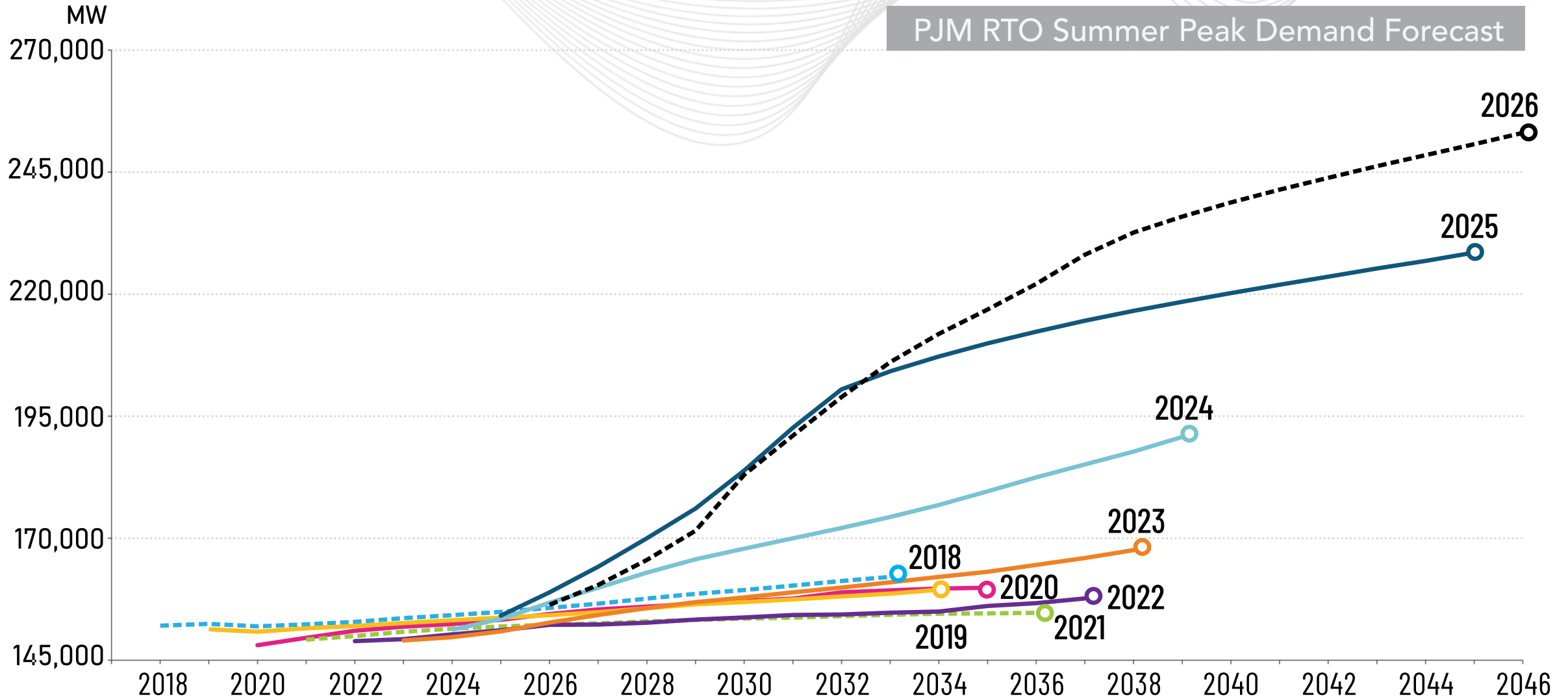
Provides guidelines to ensure that any adjustments made to PJM's load forecast model are properly identified, estimated, and reviewed prior to incorporation into the forecast.

- Filtered projects
 - Worked to identify those that had ESO/CC and marked those as “Firm”. Only these projects will be allowed to impact RPM
 - All other projects were labeled “Non-Firm”
- Investigated ramp rates (how long it takes for a data center to get from online to full demand) and imposed minimum 36 month
- Investigated utilization rate (% of final capacity that is used) and imposed 70% unless otherwise supported
- Considered national projections for a top-down estimate
- Review of economic data in load forecast model to mitigate double counting load growth

2026 Load Forecast: RTO Large Load Adjustments



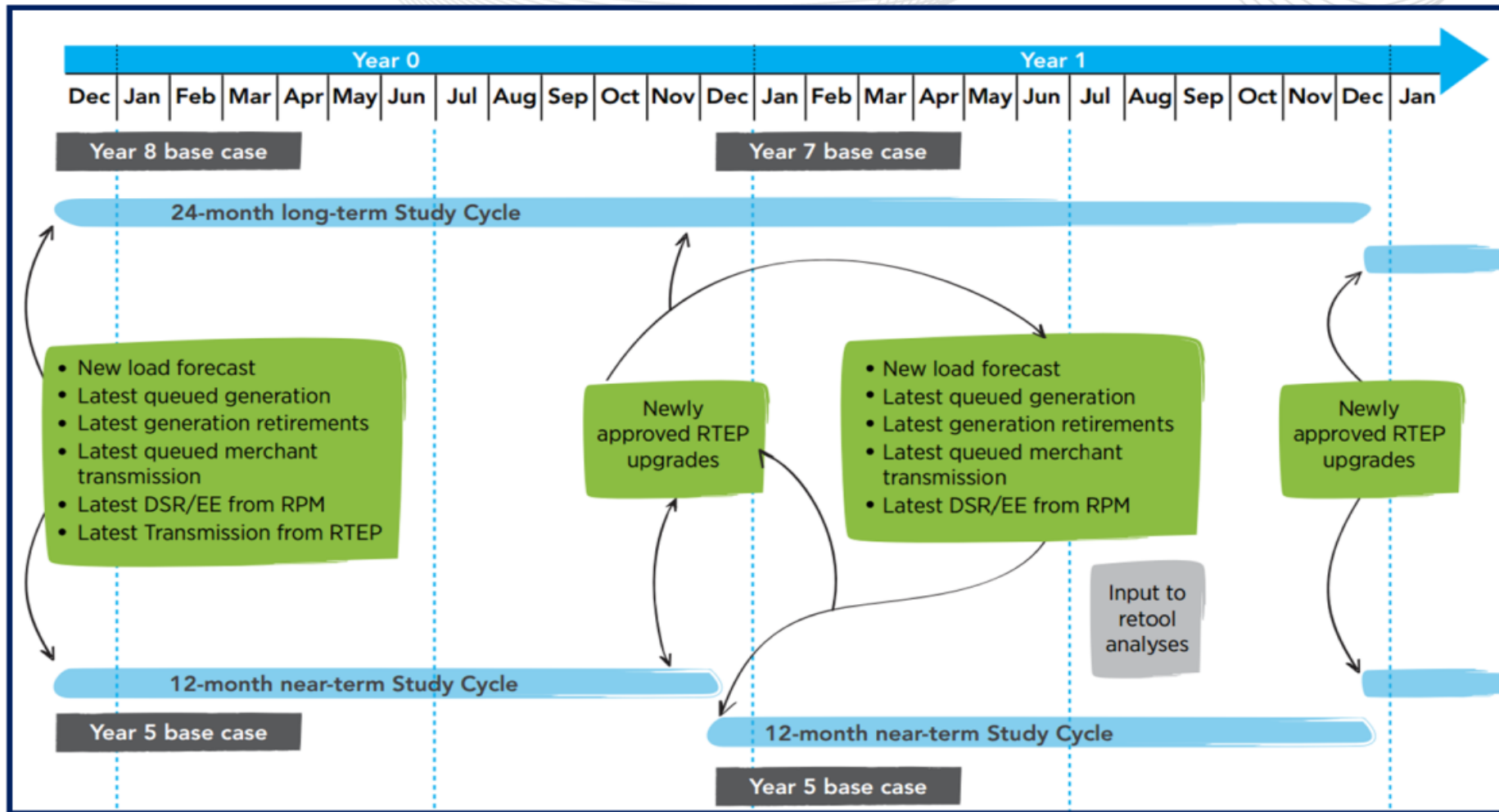
Electricity Demand Growth



2027 Long-Term Load Forecast and Beyond

- Refinement of assumptions around ramp rate and utilization
- Informal state review of submissions
- Independent data center forecast
- More detailed template for data center adjustment requests including:
 - Facility Owner • Location • Status of Site Control and Permitting • Load Type • Project Demand Characteristics • Project Configuration • Project Stage • Financial Responsibilities • Links to TEAC or SRRTEP supplemental projects

- Load Forecast Development Process
<https://www.pjm.com/planning/resource-adequacy-planning/load-forecast-dev-process>
- Supplement provides an overview of 2026 Load Forecast inputs and assumptions:
<https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/load-forecast-supplement-2026.pdf>
- Manual 19: Load Forecasting & Analysis
<https://www.pjm.com/-/media/documents/manuals/m19.ashx>
- Load Analysis Subcommittee
<https://www.pjm.com/committees-and-groups/subcommittees/las>



*2018: Overlapping 18-month RTEP cycles

RTEP Process Education

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