



# Long-Term Regional Transmission Planning (LTRTP) Manual revisions overview and feedback received

PJM Staff

Special Planning Committee Session

Jan 23, 2024

- LTRTP updates seek to clarify the details of long term planning analysis in order to maintain reliability through this energy transition
- PJM engaged stakeholders in 2022 to discuss LT planning via NOPR and A-NOPR responses
- PJM engaged stakeholders in 2023 to discuss a comprehensive LTRTP framework and discuss high level Manual revisions
- PJM discussed the framework in detail with OPSI, ISAC and etc.
- Detailed assumptions discussions with stakeholders to start in early 2024

- Workshops (Manual 34, Section 5.6)
  - “Workshops may be established by PJM to provide a series of meetings to engage in **education, foster dialog, share ideas and gather stakeholder feedback related to emerging topics and objectives** as outlined in its initial communication and meeting. Workshops are **non-decisional** meetings and will not develop rule changes. They may provide periodic informational reporting to other Committees and Groups as appropriate. **To the extent that a Workshop discussion leads to the need for an Issue Charge, a stakeholder may bring such Issue Charge to a Standing Committee or Senior Standing Committee, as appropriate, for review and approval.** Workshops are non-voting and shall not be utilized to replace or circumvent the stakeholder processes or rules as defined in Manual 34 (e.g. CBIR). Workshops may utilize polling tools as a means to gather stakeholder feedback.”

- Quick Fix Process (Manual 34, Section 8.6.1):
  - “From time to time, there may be issues identified by PJM, FERC, the Market Monitor, or Stakeholders that are **urgent and/or very simple or straightforward to correct**, and require no stakeholder engagement. Issues that meet these criteria may be brought before the appropriate committee in the form of a Problem Statement and Issue Charge along with a documented solution and implementation schedule, and may be voted upon at first read if timing requires it.”
  - Manual Revisions:
    - An Issue Charge is necessary – either standard CBIR or Quick Fix except for:
      1. Compliance directives
      2. Conforming updates
      3. Periodic reviews
  - Historical Use (2022 and 2023):
    - Quick Fix Issue Charges comprised 1/3 of all Issue Charges
    - Of the Quick Fix Issue Charges, 80% were associated with Manual revisions

- PJM has performed a review of existing manual language to propose revisions that are required update based on the LTRTP framework
- M14B – PJM Region Transmission Planning Process
  - Includes specifics on Assumptions, Analysis and Timelines
- M14F – Competitive Planning Process
  - Details specifics around proposal window process

- Timeline 2 Year process → 3 year process
- Development of additional LT powerflow cases for years 8 and 15
- Update LT analysis procedures
  - DFAX extrapolation to linear interpolation
  - Expansion of analysis to include limited N-1-1 and voltage studies
- Update language that defines qualifications for LT needs
- Additional content in establishing assumptions (e.g. capacity expansion, public policy, etc.)
- Outline process for collecting state policy data
- Acceleration of LT projects/Informing NT Projects
- LT vs NT framework

Feedback	Consideration
Request to post legal position paper and OA references	1/9 PC postings
Request PJM conduct a page turn of LTRTP Manual revisions	1/23 and 1/26 meetings
Request to enhance the issue charge with scope	1/23 Posting
Discuss replacement generation and capacity expansion	M14b: 1.3.1
Consider modeling economic retirements in scenarios	M14b: 1.3.1
Discuss LTRTP scenario and assumption considerations	M14b: C.4.1 (w/ 2.1.2, 2.1.4), Exhibit X
Consider TEAC/ISAC participation in scenarios' definitions	M14b: 1.3.1
Consider public policy assumptions in NT RTEP	M14b: 1.3.1, 2.1.4, B.4
Incorporate how economic factors considered in evaluation	M14f: 8.1.2, 8.1.3
Consideration for states to request additional benefits	M14f: 8.3
Questions about base line upgrades and public policy projects	Useful Terminology Slide

- Page turns – 1/23/2024 and 1/26/2024
  - Following Page turn meetings, additional meetings may be required based on stakeholder feedback
- Pending discussion at page turn meetings, the following schedule may be adjusted
  - Planning Committee Endorsement – 2/6/2024
  - Markets & Reliability Committee First Read – 2/22/2024
  - Markets & Reliability Committee Endorsement – 3/20/2024



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**PJM Planning Committee**



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# Appendix: Useful Scenario Terminology & Assumptions

- **Base Reliability Scenario:** Consists of a minimum set of inputs that must be modeled to ensure resource adequacy and identify future transmission needs and solutions required to maintain the reliability of the system.
  - Examples of inputs modeled in the base reliability scenario are PJM's official load forecast, federal and state policy retirements, and the queue.
- **Medium Public Policy Scenario:** Includes statutory public policy requirements such as state RPS that are not fully accounted for in the Base Reliability Scenario
- **High Public Policy Scenario:** Considers public policy requirements from the Medium Public Policy Scenario, public policy objectives and high forecasted load levels

- Base Case: Generic reference to the primary power flow models used for a particular scenario, e.g. base reliability scenario base cases and medium public policy base cases
- Types of Baseline Upgrades:
  - Reliability Projects
  - Economic Projects
  - Operational Performance Projects
  - State Public Policy Projects