February 8, 2022 Long-Term Transmission Planning Workshop Session Feedback

Dave Souder &

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Long-Term Transmission Planning Reform Workshop

March 8, 2022

Feedback

- Now is an opportune time to work towards a holistic approach in planning the grid of the future by pursuing the development and adoption of criteria for scenario-based transmission planning.
- Changes to enhanced long-term transmission planning must be coordinated with transmission owners and other impacted stakeholders.
- LRTP process should be as transparent as possible with all the data available to the stakeholder
- Scenario planning in a multi-state RTO will be challenging. Interest alignment amongst states may pose challenges.
- Potential scenarios should more specifically account for state and federal public policy initiatives

Feedback

- With federal, state, and private industries drastically shifting to meet renewable objectives in the near and longer-term horizon, it is incumbent on PJM and its stakeholders to proactively consider how to best incorporate these goals and others into the planning process so that the transmission system can be optimally designed and built to accommodate these multi-driver needs.
- PJM should consider identifying renewable zones and foster discussions with both TOs and states on cost allocation issues associated with implementing scenario-based planning.

Feedback

- Enhancements to long-term planning should address the increasing penetration of renewable generation, and likely accelerated deactivations of existing thermal generation and the implications on Resource Adequacy, Transmission Security, Fuel Security and Essential Reliability Services.
- PJM and its stakeholders should work towards an actionable approach for scenario-based transmission planning that allows for the development of infrastructure necessary to address specific violations that are determined through the various scenarios PJM would study so as not to overbuild or under-build the system

Feedback

- Scenario planning should be based on defined shorter-term planning horizons of 5 to 7 years to minimize uncertainty and risk.
- If speculative transmission building is ordered, strengthening the high volt transmission system to facilitate greater zonal transfers of energy will likely have value whether or not the specific scenarios materialize.
- Increasing transfer capability between RTOs will also facilitate greater bulk transfers.
- LRTP process should be coordinated with neighboring RTOs or utilities for efficient studies
- Scenario-based planning should remain separate and distinct from the existing RTEP studies, inclusive of the local planning process as identified in M3.

Feedback

- Although, these processes should be maintained in order to continue to support reliability for our customers, an evaluation should be considered if a scenario-based violation interacts with other planning needs and violations.
- Enhanced project selection evaluation to ensure selected solutions address the immediate reliability issue and provides options for expansion to address longer term planning needs/solutions including testing loading conditions to ensure adequate headroom to and a projects ability to provide reliable service for the foreseeable future.

March 29th Workshop Session Questions

March 29th Questions

- Are there other drivers that should be considered when altering scenarios beyond the sources of information traditionally used in PJM analysis?
- Should generation beyond what is included in the Interconnection Queue be included in Long Term Planning Studies? If yes, how should it be determined where generation is to be sited?
- How and when to transition from probabilistic to deterministic methodologies in the scenarios?
- What is the decision-making criteria at 15 years? At 8 years?
- What is the role of FERC and the states?
- Who determines whether a given set of scenarios are the ones which should form the basis for ordering new projects?
- How to address changes in the scenario drivers that alter plans previously set in motion?

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Long-Term Transmission Planning Reform Workshop

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