



Update on Long-term Transmission Planning Task Force (LTPTF)

2/27/2024

Allison Auld-Hill

Discussions To-date

- Understanding of other efforts in-flight
 - WestTEC, Gridworks, PJM new LTRTP, FERC 2023 NOPR, etc
- Preliminary findings:
 - WECC role would be to collect and maintain data sets, but not to complete long-term system planning studies or propose projects
 - Potential use cases for the data should drive associated requirements
 - Data sets would likely include production cost models and power flow (i.e. bus-branch models); dynamic models not currently in scope due to diminishing returns on effort
- Ongoing discussion:
 - Anticipated FERC decision on long-term planning will shape stakeholder needs
 - Source (and process) of the data for assumptions on future load, generation, and transmission projects
 - Role of WECC for sensitivity cases and if/what should be explored in a long-term data set

Potential Use Cases Identified To-date

1. Transmission planning entities to propose new major transmission projects
2. Transmission planning entities to develop longer views and trends that can impact the scopes for mitigations identified through conventional transmission planning processes
3. Transmission planning entities to meet FERC requirements
4. Transmission planning entities to explore technology needs*
5. Resource planning entities and transmission planning entities can work together to iterate on the IRP process

*While noted as a potential use for this data, exploring specific technology (e.g. grid forming inverters) would likely require dynamic data that was considered out-of-scope for this case development effort

Background Studies

- Nationwide 10+ Years
 - FERC NOPR, PJM LTRTP, ITCS
- Western 10+ Years
 - WestTEC, CAISO 20-year Transmission Outlook and TPP, WA/OR Regional Assessment, CETA Transmission Study
- Studies focused on FERC NOPR sensitivities
 - Extreme weather
 - Climate
- National Labs/Other

