



# Long-term Planning

June 28, 2023

Chelsea Loomis  
RAC Co-chair

# Need for Long-term Planning



Takes more than a decade to build interconnection-wide transmission



Nearer-term decisions fit with long-term planning



Long-term resource plans



Decarbonization policies

# FERC NOPR RM21-17-000



Conduct long-term (minimum of 20 years) assessments with multiple scenarios);



Consider dynamic line ratings and advanced power flow control devices;



Seek the agreement of relevant state entities within the transmission planning region regarding the cost allocation method or methods;



Enhance transparency for local transmission planning processes;  
Improve coordination between regional and local transmission planning → opportunities to “right-size” replacement transmission facilities

# FERC NOPR



Revise their existing interregional transmission coordination procedures to reflect the long-term regional transmission planning reforms proposed in this NOPR.



Changes to cost allocation for long-term regional transmission planning:  
No CWIP Incentive for public utility transmission providers  
Exercise of federal ROFR for transmission facilities



Comments due [September 19, 2022](#)

# FERC NOPR Highlights

- Applauds MISO's MVP process
- Siloed transmission planning
- Proposes regional planning reforms
  - Minimum four 20-year scenarios



# FERC NOPR Highlights—*Continued*

- Factors
  - Policies
  - Integrated Resource Plans
  - Technology
  - Resource retirements
  - Interconnection requests
  - Climate
  - Identified facilities



# FERC NOPR Highlights—*Continued*

---



## Scenarios

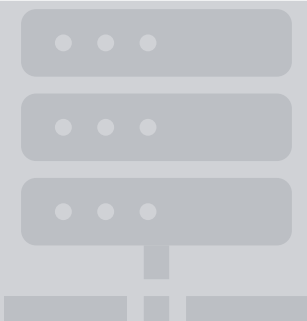
# Discussions Held



What types of year 20 assessments does your organization perform?



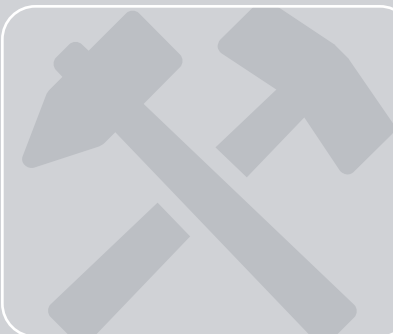
How many scenarios are being considered in your organization's regional planning processes?



How are the "Best available data inputs" considered in your organization?



How are dynamic line ratings and advance power flow control devices considered for assessments?



Are the current tools being used adequate for such analysis?



# Key Considerations

- Study approaches
  - Bookend scenarios
  - Key drivers
- Models and Tools
  - Nodal vs. Zonal models
- Key assumptions
  - Load forecasts
  - Resource locations



# Scenario Development

- Uncertainty with forecasts
- Broad range of assumptions
- Policy drivers
- Transmission assumptions
- Climate change
- Sensitivity analysis
- Feedback mechanism



# Proposed Action

---

- Establish Long-term Planning Task Force
  - Most commentators on the Long-term Planning paper volunteered
  - Other volunteers?
- Task Force Responsibilities
  - Define Approach
  - Clarify which tools would add most value
  - Define how assumptions are made
  - Develop scenario framework



---

**[www.wecc.org](http://www.wecc.org)**