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September 7, 2022

MEMORANDUM

TO: Council Members

FROM: Jennifer Light, Power Division Director

SUBJECT: Draft Work Plan for Mid-Term Assessment

BACKGROUND:

Presenter: Jennifer Light

Summary: This presentation outlines a draft plan for the scope and timing of the 2021 Power Plan Mid-Term Assessment. Staff is seeking Power Committee feedback. Staff will use this feedback to adjust scope, priorities, and timing as needed.

Relevance: The Council's 2021 Power Plan was developed at time of significant uncertainty in the power system. The Council committed to continued monitoring and evaluation of this evolving system to assess the range of uncertainties underlying the resource strategy and the implications on resource adequacy. This work is to be compiled into a mid-term assessment.

Working Towards the Mid-Term Assessment

Jennifer Light
Power Committee
September 13, 2022

Objectives for Today

- Share out draft timeline and scope for the 2021 Power Plan Mid-Term Assessment
- Seeking Committee feedback on the following:
 - Are we asking the right questions for the mid-term assessment?
 - Is the draft timeline okay (recognizing there is always room to adjust as we go)?

Drafty Draft Draft Draft

Just a reminder before we dive in:

- The proposed timeline and scope is draft and can be adjusted based on Power Committee feedback
- Additionally, as time goes on, we may need to re-prioritize projects and adjust timelines to meet needs

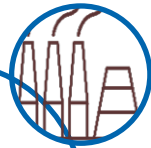
Keeping Tabs on the Evolving System

The promise from the 2021 Power Plan:

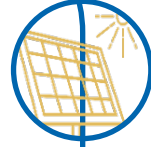
“The Council’s work to monitor and evaluate the region’s evolving system and policies will keep pace with new data and analysis in this rapidly changing industry. Any changes or unexpected developments will be reported as available and reflected in the 2021 Power Plan’s mid-term assessment.”

Questions to Answer

Does the resource strategy in 2021 Power Plan continue to ensure an adequate, efficient, economical, and reliable power supply?



Do we know more about our existing system and its ability to support adequacy?



Are new resources being developed consistent with the plan?



How are loads changing, and is the pace of electrification faster than assumed in the plan?



What new policies are being set and how do those provide either more certainty or uncertainty for the future system?



What is the status of emerging technology development



What is happening outside the region and how might it impact our ability to leverage the market?

Draft (Incomplete) Timeline

2022

| | |
|---------|---------|
| Jul-Sep | Oct-Dec |
|---------|---------|

- GENESYS enhancements
- WECC-wide buildouts
- Wholesale price forecast
- Adequacy assessment

2023

| | | | |
|---------|---------|---------|---------|
| Jan-Mar | Apr-Jun | Jul-Sep | Oct-Dec |
|---------|---------|---------|---------|

- Updates to fuels forecast
- Regional emissions update
- WECC-wide load update
- Updates to generating resources
- Update to transportation forecast
- Wholesale price forecast
- Policy updates
- Tracking new EE + DR
- Adequacy assessment

2024

| | |
|---------|---------|
| Jan-Mar | Apr-Jun |
|---------|---------|

- Annual studies
- Regional emissions update
- Emerging tech readiness
- Changes to EE assumptions
- Policy updates
- New generating resources
- Cost changes to generating resources



← Complete Mid-Term Assessment (mid 2024)

Starting new analysis for next plan →

Other Activities Planned

Planned for before mid-term



Planned post mid-term, in prep for 9th plan

- Completing upstream methane emissions study
- Exploring hydro system flexibility

- Improving understanding and modeling of transmission
- Improving modeling of distributed generation



Questions?

- Have we highlighted the right questions?
- Are you comfortable with the draft timeline?
- Is there anything else that we should be considering as we look towards the mid-term assessment?