WIRAB Monthly Update

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Outline

• Introductions and Roll Call
• WECC:
  — Generation Resource Adequacy Forecast (GRAF) Tool
• WIRAB:
  — Draft 2021 Strategic Initiatives
WECC: Generation Resource Adequacy Forecast (GRAF)

• Gives industry users the ability to explore resource adequacy information in a new, interactive way.
  — **Deterministic Analysis**
    • Deterministic methods examine discrete future scenarios defined by specific assumptions, which control the results. It is a useful approach when the inputs are well known and not variable. However, it does not account for randomness or probability, and can only be used to evaluate exactly what is input.
  — **Probabilistic Analysis**
    • Changes to the Interconnection like variable resource expansion call for a new approach to analyzing resource adequacy. As the system changes, and that change becomes more rapid, it becomes more difficult to find a representative future state to study. To adapt, WECC uses probabilistic analysis to better understand the nature and likelihood of potential risks to the system.

https://www.wecc.org/ePubs/GenerationResourceAdequacyForecast
Draft 2021 WIRAB Initiatives

- **Initiative 1: (Resource Adequacy)** Advise WECC to improve its assessment of resource adequacy to ensure that state and provincial regulators, FERC, and NERC have access to accurate, consistent, and timely information to inform capacity expansion decisions in the West.

- **Initiative 2: (Dynamic Line Ratings).** Advise WECC to assess the reliability benefits and risks in implementing dynamic line ratings (DLRs) throughout the Western Interconnection.

- **Initiative 3: (Reliability Coordinator Performance Metrics).** Advise Western Reliability Coordinators on opportunities to improve operational performance measures to ensure consistent metrics, to identify best practices, and to strive for exceptional reliability in the West.
Draft 2021 WIRAB Initiatives

• **Alternative #1: (Microgrids).** Encourage WECC to study and publish findings on the interrelationship between microgrids and the reliability of the Bulk-Power System in the West.

• **Alternative #2 (Event Analysis).** Encourage WECC to share key findings and insights from its Event Analysis and Situational Awareness Program with Western policymakers, regulators and stakeholders to increase awareness and understanding of near-miss system events and grid reliability.

• **Alternative #3: (100% Clean Energy).** Advise WECC to perform comprehensive and forward-looking assessments of key reliability parameters that may develop as states and provinces move towards a 100% clean energy future.

• **Alternative #4: (Seams Issues).** Advise WECC to monitor and develop guidance regarding potential situational awareness issues that may arise from seams issues associated with markets and reliability coordination in the Western Interconnection.
Upcoming Meetings

WIRAB Monthly Teleconference Meeting:
First Thursday of every month at 11:00 AM MT
Next Meeting: April 2, 2020 at 11:00 AM MT

Spring 2020 Joint CREPC-WIRAB Meeting
April 29 – May 1, 2020 in Albuquerque, NM

Fall 2020 Joint CREPC-WIRAB Meeting
October 26 – 28, 2020 in San Diego, CA
Thank You

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