

WIRAB Monthly Meeting

September 1, 2022



Introductions



Outline



- **WECC Activities:**

- WECC Update:

- WECC Resource Adequacy Series: Steel in the Ground

- WECC Board of Directors and Annual Meeting

- Preview WIRAB Comments to the WECC Board

- **Upcoming WIRAB Meetings**

WECC Resource Adequacy Series: Steel in the Ground



[Wednesday, September 7, 10:00–11:30 a.m.](#)

- Address the resource additions necessary to meet demand over the next 10 years and the potential obstacles to building them.
- Panelists will discuss how issues like supply chain disruptions, electrification, infrastructure investment, and policy changes may affect future resource adequacy.
 - **Chris Hansen—Colorado State Senator (Moderator)**
 - **Phil Jones—Former Commissioner at the WA UTC and Past President of NARUC**
 - **Ann Rendahl—Commissioner at the WA UTC**
 - **Chris Hofmann—Director, Transmission & Generation Operations at SRP**

WECC Board of Directors and Annual Meeting



September 13-14, 2022 in Henderson, NV

Annual Meeting and Class Breakout Sessions (Call-ins available)

- **Class 4 & 5 Breakout Session Agenda (Sept. 13th at 10:45 AM PT)**
 - Meet and Greet with new WECC VP of Reliability and Security Oversight and new VP, General Counsel
 - Discussion WECC's role in interconnection-wide transmission planning
 - Discussion on rethinking WECC's State of the Interconnection Report
- **WECC's Interactive Forum: Long-term strategic outlook for the West**

WIRAB Comments to the BOD: Interconnection-Wide Transmission Planning



FERC NOPR on Long-term Transmission Planning and Cost Allocation

- Western Representative Comments
- NERC and WECC Comments

WECC's Potential Role

- Identify transmission need from an interconnection-wide perspective
- Leverage state and provincial policymakers to ensure transmission accounts for state and provincial energy policy

WECC's State of the Interconnection Report



Interactive Data Portal:

WECC Tutorial State of the Interconnection

Background

The 2022 State of the Interconnection (SOI) is a summary of the past year's performance and review of trends in the Western Interconnection. The SOI gathers data from a variety of sources to provide a comprehensive summary of information on the reliability and security of the bulk power system (BPS).

How to Use This Report

The SOI is a reference tool divided into sections that you can access using the navigation bar on the left. Each section is divided into pages that focus on a specific topic.

Interacting with Charts and Maps

Many pages feature interactive charts that allow you to explore the data presented. In many cases, you can apply custom filters or delve into certain data sets for more detail. Most maps are interactive, with some allowing you to zoom in and out and switch between different layers.

Report:

WECC State of the Interconnection
Electric Reliability and Security for the West
Insights and Takeaways
2022

Introduction

This document provides a high-level look at the State of the Interconnection (SOI) over the last 18 months, with a focus on key risks. General historical system performance data for the Western Interconnection can be found in the [State of the Interconnection Data Portal](#). In addition, WECC quarterly tracks system health through its [Reliability and Security Indicators Dashboard](#).

During 2021 and the first half of 2022, the West continued to see challenges to reliability and security. The Northwest heat wave and worsening drought made 2021 a particularly challenging year. Cyber events continued to test system security through the first half of 2022. Also, prolonged higher-than-normal temperatures persisted throughout much of the West over the summer of 2022. Despite these challenges, the Western Interconnection remained reliable in 2021 and 2022, except for proactive outages in eastern Washington during the Northwest heat wave in late June 2021 (affecting approximately 240,000 customers). As was the case in 2020, the last 18 months continue to demonstrate the extent of change affecting the Western Interconnection.

WECC's Reliability Risk Priorities (RRPs) form the backbone of this report. RRPs are matters with a unique impact and importance to the Western Interconnection—to which WECC can make material reliability and security contributions. WECC's staff and technical committee use the RRPs to help ensure that reliability and security risks are addressed through concentrated mitigation strategies. WECC updates its list of RRPs every two years. In June 2022, the WECC Board of Directors (Board) approved the refreshed list of RRPs. Two 2020 risks remain on the list: resource adequacy and extreme natural events. The other 2020 risks (changing resource mix and effects of the distribution system and customer load on the bulk power system (BPS)) combined into the 2022 risk "impacts of changing resources and customer load impacts on the BPS." Cybersecurity was added in 2022 as the fourth reliability risk priority.

Throughout the year, WECC staff addresses a variety of topics and concerns impacting the reliability and security of the interconnection. The sections below provide information on the state of the interconnection in each RRP area and additional areas that have impacted the interconnection during the preceding 18 months.

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WIRAB Comments to the BOD: Reimagining the State of the Interconnection Report



State of the Interconnection Data Portal

- Summary data serves a limited purpose
 - Maintain State level data and expand to Canadian Provinces

State of the Interconnection Report

- Should serve as an early warning system to reliability risks
 - Leverage Reliability and Security Indicator Dashboard and other metrics
 - Requires WECC make a determination of the State, or “Health”, of the Western Interconnection
 - Target audience should be decisionmakers (CEOs, Regulators, and Policymakers)

WIRAB Comments to the BOD: Wildfire Information Request



WECC Data Request

- 9 Entities (2021 Request) -> 45 Entities (2022 Request)
- Summarized events by line voltage level, and did not reveal significant impact to the BES facilities

Next Steps:

- Identify near-miss events and successful mitigation
- Share success stories that minimize risk and impacts to customers
- Continue data collection over time to help determine best practices or challenges with Reliability Standards

WIEB Webinar: Incorporating Temperature and Precipitation Trends in Long-Term Planning



Stanford University 2022 Shultz Energy Fellows at WIEB:

- Jake Hofgard, B.S. candidate Mathematics, Minor in Electrical Engineering
- Evan Savage, M.S. candidate Atmosphere/Energy in Civil and Environmental Engineering

Webinar and Open-Source Forecasting Tool:

- Analyzed trends in temperature and precipitation data in the West.
- Made recommendations on how utilities, regulators, and policymakers can better account for climate change in long-term planning.
- Created a tool that planners can use to forecast long-term temperature trends.

<https://www.westernenergyboard.org/wieb-webinar-incorporating-temperature-and-precipitation-trends-in-long-term-planning/>

Upcoming Meetings



WIRAB Monthly Meeting

First Thursday of the Month

October Meeting Canceled

Next Meeting: November 3, 2022

Fall 2022 Joint CREPC-WIRAB Meeting

September 28-30, 2022

Tempe, AZ

Thank You!

Eric Baran

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