

WIRAB Monthly Meeting

September 5, 2024



Introductions



Outline



WECC Activities:

WECC Update

WECC Study Program Lessons Learned



WIRAB Activities:

Next Steps on Inverter-based Resource Project



Upcoming WIRAB Meetings

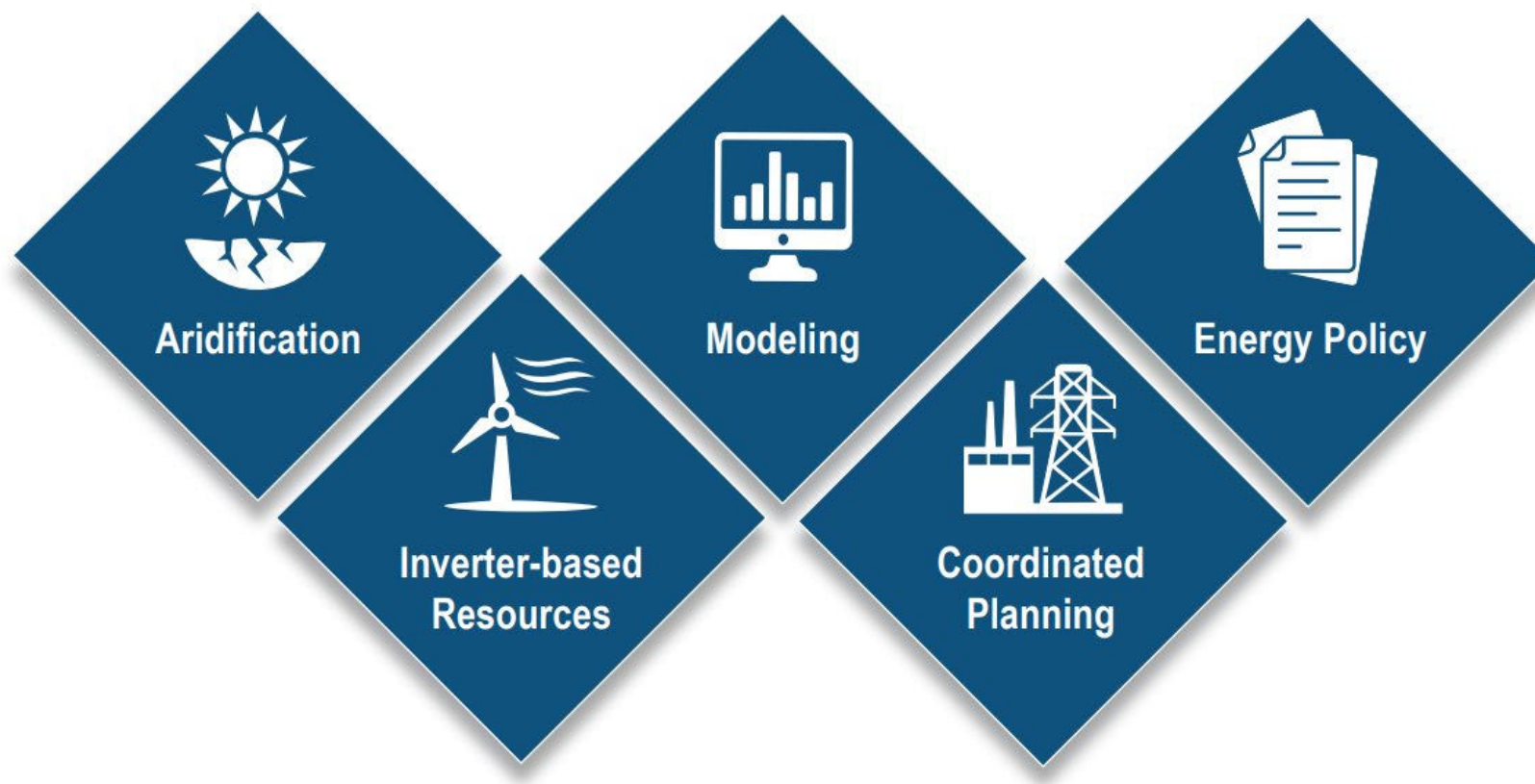


WECC Update

September 5, 2024

Matt Evans
Stakeholder Engagement
Specialist

Reliability Risk Priorities



Board of Directors Meeting

- September 17: Board Meeting
 - Election of new Directors
- September 18: Annual Member Meeting
 - Interactive Session: Update on WECC's Long-term Strategy (LTS) and an opportunity to provide input on the new draft LTS



ITCS update

- In late August, NERC released the first of three documents that will constitute the Interregional Transfer Capability Study (ITCS)
- The Transfer Capability Analysis (Part 1) examines the current total transfer capabilities between neighboring transmission regions
- Prudent Additions (Part 2) and Recommendations (Part 3) are scheduled to be published in November
- The [Overview of Study Need and Approach](#) was released in late June
 - Provides context for the study details and explains the need for the study
- More information on the ITCS is available at wecc.org or nerc.com



www.wecc.org



WECC Year 20 Studies

Sept 5, 2024

Katie Rogers
Reliability Assessments
Manager

WECC Year 20 Studies

- Starting point: Year 20 Foundational Case
 - Year 20 Cold Weather Event Study
 - Year 20 Extreme Heat Event Study
 - Year 20 Compound Load Impacts Study
 - Year 20 Transmission Trends Assessment
- Overview and results : Year 20 Load, Resource, and Transmission trends

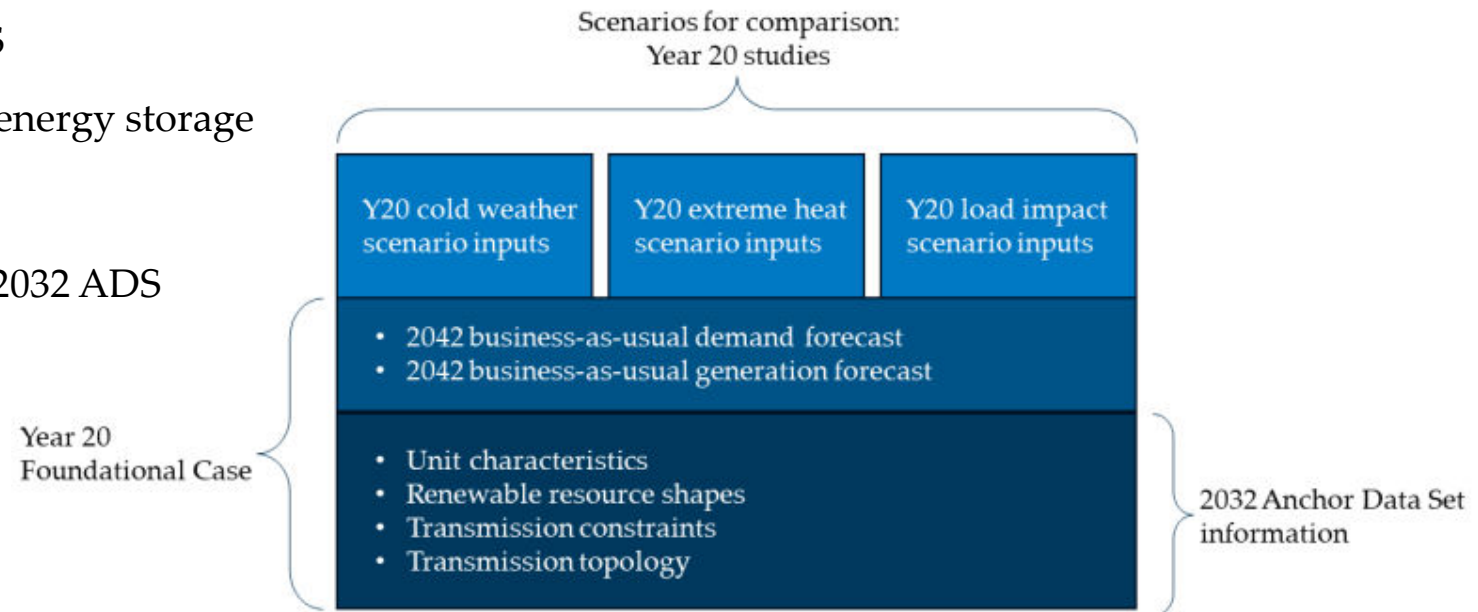
Background

- Balancing Authorities (BA) submit their 10-year plans annually
 - Loads
 - Resources
 - Transmission topology
 - May not completely match their IRP
- Anchor Data Set (ADS) every two years
 - One year, 10 years out
 - Puts all the pieces together for the WI



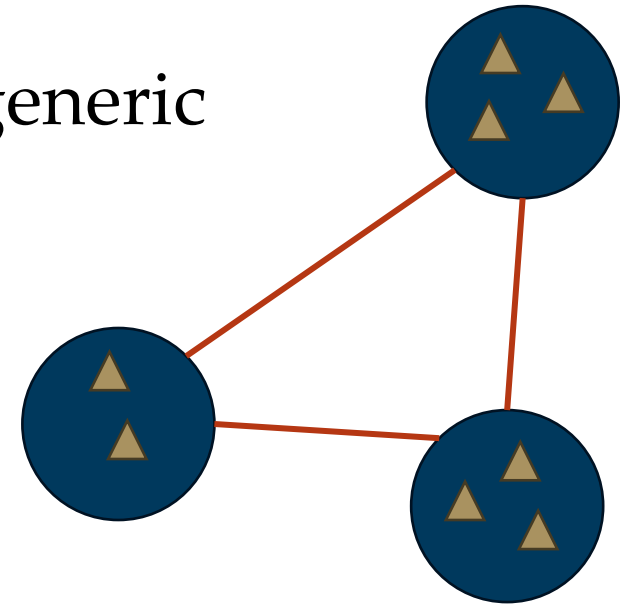
Y20 Approach

- 2032 ADS -> 2042 Foundational Case
- Focused on major drivers: Load and Resources
 - Benchmarked against EIA AEO, NREL EFS
 - Resource additions limited to wind, solar, energy storage
- No change to transmission topology
 - Only included what was provided for the 2032 ADS
- No change to prices
 - Didn't look at cost
 - Resource Adequacy perspective
 - Assumed same dispatch order
- Technical stakeholder advisory groups of industry volunteers
- Consulting firm — E3



Lessons Learned

- Modeling shortcoming of energy storage
- Historical data/curves/profiles may not reflect future
- Transmission plan timing
- Resource plans beyond five years tend to be generic
- Pipe and bubble may be better approach
 - Increased Precision \neq Increased Accuracy



Future

- Data improvements
 - Requesting BA/utility long-term resource plans
 - FERC 1920: 20-year transmission planning
- Model improvements
 - Energy storage modeling
 - Detailed -> Pipe and bubble
- Approach or Method
 - Collaborating with others for their ideas and lessons
 - Consider other drivers such as technology, policies





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Next Steps: WIRAB's IBR Risk Assessment Project



August:

Present Risk Assessment Analysis and Results at Monthly Meeting

Draft Recommendations



September:

Finalize Technical Report and Executive Summary



October:

Share Report and Proposed Recommendations at Monthly Meeting

Discuss Results and Recommendations at Joint CREPC-WIRAB Meeting



November:

Seek WIRAB Endorsement of the Recommendations



December:

Present Results and Recommendations to the WECC Board

WIEB Consolidated Calendar



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Announcements

Calendar

Jobs and EEO Info

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Webinars

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CREPC Meetings

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Nuclear Meetings

WIEB Meetings

WIRAB Meetings

August 30, 2024 | **WIEB Webinar: 2024 Shultz Energy Fellowship – Transmission Use and Congestion Analysis in the Western States**

September 5, 2024 | **WIRAB Monthly Meeting**

September 13, 2024 | **CREPC TC Monthly Meeting**

Other Calendars

- **NASEO**
- **NARUC**
- **CAISO**
- **SPP**
- **WPP**
- **FERC**
- **NERC**
- **WECC**

Upcoming Meetings



WIRAB Monthly Meeting

First Thursday of the Month

Next Meeting: October 3, 2024 at 11:00 AM MT

Fall 2024 Joint CREPC-WIRAB Meeting

October 22-24 in San Diego, CA

<https://www.westernenergyboard.org/meeting-calendar/>

Thank You!

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