

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Co-Chair, called the meeting to order at 10:02 a.m. MT on August 16, 2023. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Jon Jensen, Reliability Modeling Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Harris introduced the proposed meeting agenda.

By consensus, the PCDS approved the agenda.

4. WECC Announcement

Mr. Jensen reminded the PCDS of the new [charter](#) requirements that assists with meeting quorum.

Mr. Jensen led the discussion on cancelling or rescheduling the PCDS meeting on August 30 due to it overlapping with an internal WECC event. Due to concern about the release of the revised version of the 2032 Anchor Data Set (ADS), the meeting will be rescheduled for August 23.

5. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on July 12, 2023 and July 19, 2023.

By consensus, the PCDS approved the minutes from July 12, 2023 and July 19, 2023.

6. Review Previous Action Items

Nicole Lee, Administrative Coordinator, reviewed action items carried over from the PCDS meeting on August 4, 2023. Action items that are not closed and will be carried forward can be found [here](#).

7. Loads Overview and Update

Mr. Jensen presented an update on the loads.

8. Follow-up Items

Mr. Jensen presented a follow-up on:

- V1—energy efficiency;
- V1—electric vehicle loads;
- V1—electrification loads;
- V1—behind the meter (BTM) Storage; and
- V1—BTM- photovoltaic (PV) distributed generation.
 - Discussions including modeling of BRM PV resources on:
 - County level—new capacities and bus distribution with new topology; and
 - Area level—new capacities

9. ADS Build Item

Mr. Jensen presented the V1—hourly utility scale solar shapes and V1—hourly wind shapes.

10. Updates to Existing 2032 ADS

Mr. Jensen presented 2032 ADS updates.

11. Pending Approvals

Mr. Jensen discussed the pending approval items:

- Loads and resources (L&R) Code 70 Energy Efficiency, California Edison Commission (CEC) data for EV, Electrification. Additional information will be obtained and presented by Mr. Jensen;
- Methods for modeling BTM Storage;

On a motion by Emily Tozier, the PCDS approved the BTM PV County level (Same methodology as the 2032 ADS PCM), However the BTM PV area level information will be in the case but not active (Users can activate the area level BTM PV if desired).

- Method for modeling transmission contingencies. Mr. Jensen will provide more information and will present it to the PCDS;
- L&R loads for 2034 ADS

On a motion by Kevin Harris, the PCDS approved the L&R loads for the 2034 ADS.



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- Demand Response (DR) method, keep same using Lawrence Berkeley National Laboratory (LBNL) or use existing method. The PCDS will keep using the same method for modeling DR as suggested by LBNL or try other methods.

On a motion by Emily Tozier, the PCDS approved the DR method and to keep using LBNL, existing 2032 ADS approach suggested by LBNL dispatch to DR.

- Method for modeling phase shifters.

More information still to be determined before the PCDS makes a decision.

The presentation is posted on the [WECC website](#).

12. Public Comment

No comments were made.

13. Review New Action Items

- Assess solar and wind load factor by unit and annual in the updated 2032 ADS PCM case. The PCDS will further work on the load shapes for different areas based upon monthly and annual unitized load factors that comes from this action item.
 - Assigned To: Jon Jensen
 - Due Date: September 13, 2023
- Check L&R code 70 numbers to see if they were included in the load projections
 - Assigned To: Jon Jensen
 - Due Date: September 13, 2023
- Look at BTM storage in CEC or EIA—861
 - Assigned To: Jon Jensen and Kevin Harris
 - Due Date: September 13, 2023
- Check with CEC to see what is included and what is not in the base load
 - Assigned To: Jon Jensen
 - Due Date: September 13, 2023

14. Upcoming Meetings

August 30, 2023 Virtual
September 13, 2023 Virtual
September 27, 2023 Virtual

15. Adjourn

Mr. Harris adjourned the meeting without objection at 11:07 a.m.



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Exhibit A: Attendance List

Members in Attendance

Jamie Austin PacifiCorp
Kevin Harris Pacific Northwest National Laboratory
Eliana Ibarra Imperial Irrigation District
Jon Jensen WECC
Kimberly McClafferty NorthWestern Energy
Chifong Thomas Thomas Grid Advisor
Emily Tozier Salt River Project
Yi Zhang California Independent System Operator

Members not in Attendance

Renchang Dai Puget Sound Energy, Inc.
Jennifer Galaway Portland General Electric Company
Sylvia Gard Puget Sound Energy, Inc.
Chris Hagman American Transmission Company
Anders Johnson Bonneville Power Administration—Transmission
Chelsea Loomis Western Power Pool
Akhil Mandadi Arizona Public Service Company
Christopher McLean California Energy Commission
Effat Moussa San Diego Gas and Electric
Jonathan Stahlhut TransCo Energy, LLC
Stan Williams Bonneville Power Administration—Transmission
Di Xiao Southern California Edison Company

Others in Attendance

Hazel Aragon Sacramento Municipal Utility District
Yogesh Bhandari Nextera Energy
Marian Bonar Gallatin Power
Jose Castaneda Imperial Irrigation District



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Arkadeep Das.....WECC
Ashton Davis.....WECC
Nicole LeeWECC
Emily LeslieMontara Energy
Katie RogersWECC
Angela TanghettiCalifornia Energy Commission
Jonatha Young.....Bonneville Power Administration—Transmission

