

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 January 17, 2024. 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. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meetings on November 29, December 6, and December 13, 2023.

By consensus, the PCDS approved the minutes from November 29, December 6, and December 13, 2023.

5. Review Previous Action Items

Nicole Lee, Senior Administrative Coordinator, reviewed action items carried over from the PCDS meeting on January 3, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Announcements

Arkadeep Das, Associate II Reliability Modeling Engineer, provided an update on resources. Resources that did not have bus numbers assigned now have them.

Mr. Jensen provided an update on the 2032 Anchor Data Set (ADS) ownership. Some of the ownership is not populated in the 2032 ADS. To fix this issue, the PCDS agreed that the power flow (PF) designation can be used to carry over to the Production Cost Model (PCM).

7. 2034 ADS Schedule Recap

Mr. Jensen presented the 2034 ADS schedule recap. Everything is on schedule.

8. Inflator and Deflator Discussion

Mr. Jensen led the inflator and deflator discussion. There is an option of using the state of California's version since Moody's cannot be used anymore.

9. Wind and Solar Capacity Factor Review

Mr. Das presented the wind and solar capacity factor review. Mr. Das, Mr. Jensen, and Mr. Harris will meet offline to discuss questions to ask NREL about verifying differences seen in the wind and solar capacity factors.

10. Fuel Prices and Costs

Mr. Jensen presented the fuel prices and costs. Mr. Jensen will verify the coal percentage that was used for the last cycle.

11. BTM Storage Data—Hourly Shape or Resource

Mr. Jensen presented behind-the-meter (BTM), storage data, hourly shape, and resources. Mr. Jensen will ask Hitachi about pump storage option three.

12. CO₂ Prices

Mr. Jensen presented the CO₂ prices for California, Alberta, British Columbia, Washington, and Oregon. Mr. Jensen will identify what CO₂ cost for source, and the time that is being used in Alberta and what supply is applicable for the Alberta CO₂ cost. The Alberta information can also be used for British Columbia. Mr. Harris will follow up on Washington's CO₂ with Anders Johnson, Bonneville Power Administration (BPA). Mr. Jensen will report how much of the CO₂ output that was used for other for Washington and Oregon to verify compliance.

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

13. Keeping Track of GridView Issues

Mr. Jensen led the discussion on GridView issues. Currently, no one is experiencing any new issues to research at this time.

14. Public Comment

No comments were made.



15. Review New Action Items

- Meet offline to discuss questions to ask NREL about verifying differences seen in the wind and solar capacity factors.
 - Assigned To: Arkadeep Das, Jon Jensen, and Kevin Harris
 - Due Date: January 31, 2024
- Verify the coal percentage that was used for the last cycle.
 - Assigned To: Jon Jensen
 - Due Date: January 31, 2024
- Identify what CO₂ cost for source, and the time that is being used in Alberta (that can also be used with BC) and what supply is applicable for the Alberta CO₂ cost.
 - Assigned To: Jon Jensen
 - Due Date: January 31, 2024
- Follow up on Washington's CO₂ with Anders.
 - Assigned To: Kevin Harris
 - Due Date: January 31, 2024
- Report how much of the CO₂ output that was used for other for Washington and Oregon to verify compliance.
 - Assigned To: Jon Jensen
 - Due Date: January 31, 2024
- Ask Hitachi about pump storage option three.
 - Assigned To: Jon Jensen
 - Due Date: January 31, 2024

16. Upcoming Meetings

January 31, 2024 Virtual
February 14, 2024..... Virtual
February 28, 2024..... Virtual

17. Adjourn

Mr. Harris adjourned the meeting without objection at 11:26 a.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin PacifiCorp
Jose Diaz..... Los Angeles Department of Water and Power
Sylvia Gard Puget Sound Energy, Inc.
Kevin Harris Pacific Northwest National Laboratory
Eliana Ibarra Imperial Irrigation District
Jon Jensen..... WECC
Richard Jensen..... California Energy Commission
Anders Johnson..... Bonneville Power Administration—Transmission
Kimberly McClafferty NorthWestern Energy
Chifong Thomas Thomas Grid Advisor
Yi Zhang..... California Independent System Operator

Members not in Attendance

Tyler Butikofer Energy Strategies
Renchang Dai Puget Sound Energy, Inc.
Jennifer Galaway Portland General Electric Company
Manuel Gomez..... El Paso Electric Company
Chris Hagman American Transmission Company
Chelsea Loomis Western Power Pool
Akhil Mandadi..... Arizona Public Service Company
Effat Moussa..... San Diego Gas and Electric
Nader Samaan..... Pacific Northwest National Laboratory
Jonathan Stahlhut TransCo Energy, LLC
Emily Tozier Salt River Project
Bharat Vyakaranam..... Pacific Northwest National Laboratory
Stan Williams Bonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company



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Others in Attendance

Keith Ban..... San Diego Gas and Electric
Jose Castaneda Imperial Irrigation District
Max Code..... Pattern Energy
Arkadeep Das..... WECC
Joshua Hurst..... Los Angeles Department of Water and Power
Ben Hutchins Western Power Pool
Joey Jones..... WECC
Nicole Lee WECC
David Meyer..... Puget Sound Energy, Inc.
Trevor Rombough Black Hills Corporation
Kellen Romero..... WECC
Melissa Villa Imperial Irrigation District
Matt Zapotocky..... WECC

