

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee, (PCDS) Chair, called the meeting to order at 10:03 a.m. MT on March 13, 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 meeting on February 28, 2024.

On a motion by Mr. Harris, the PCDS approved the minutes from February 28, 2024.

5. Review Previous Action Items

Mr. Jensen, reviewed action items carried over from the PCDS meeting on February 28, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Announcements

- BTM PV weightings
- 2024 L&R Data Update
- Wind and Solar Capacity Factors

Mr. Jensen led the discussion on behind-the-meter (BTM) photovoltaic (PV) weightings. He was able to contact personnel at NREL to help with the BTM PV weightings and is just waiting to hear back from them to have the data update. Ashton Davis, with the help of a few other people, is working on reviewing the 2024 Loads and Resources (L&R) data and should be able to provide the mapping for Version 2 of the 2034 Anchor Data Set (ADS) soon.

PCDS Meeting Minutes—March 13, 2024

Kellen Romero, Staff Reliability Assessments Engineer, is working on the wind and solar capacity factors review and should be able to present by next meeting.

7. 2034 ADS PCM NorthernGrid Region Comparison

Chelsea Loomis led the discussion on Version 1 of the 2034 ADS Production Cost Model (PCM) for the NorthernGrid Region Comparison between 2032 and 2034 ADS. What they are seeing is more renewables, more load, and some changes in flows in the traditional paths.

8. 2034 ADS PCM V1 Follow-up

Mr. Jensen presented on WA/OR CO₂ \$0 case comparison for 2032 and 2034 regional transfers. Loads comparison of 2032 and 2034 V1 and the amount of emissions increase between the two. He discussed how much CO₂ short ton output came from either Washington or Oregon in the case and that it is staying under the CO₂ cap.

Mr. Jensen led a discussion about P66 California-Oregon Intertie (COI) hourly flow and how solar, gas, wind, and hydro flow change between the seasons.

Mr. Jensen presented on the Direct Current Intertie (DCI) value regional flows. It's being monitored from Cypres1 to McNeill branch and not the Miles City DCI. The naming convention is implemented for most of the generators and will be updated for the rest. The PCDS discussed area-level capacity and energy generation by area annually, and the hourly transmission flow and loads comparison.

9. 2034 ADS PCM V1 External Comments

Mr. Jensen led a discussion of external comments about the 2034 ADS PCM V1. Colby Johnson commented that the L&P is higher than it has been in the past. He also mentioned one of the CSU BUS ID#73477 is still being reported as PSCO as owner instead of WACUM, which is something to investigate. Jamie Austin's comments were postponed to a future meeting.

10. 2034 ADS PCM V1

Mr. Jensen led a discussion about the 2034 ADS PCM V1.

On a motion by Tyler Butikofer, the PCDS approved the 2034 ADS PCM V1.

11. To be Completed

Transmission projects in case AB32 and Units exempt from wheeling were moved to a future meeting.



12. 2034 ADS Schedule Recap

Mr. Jensen addressed the 2034 ADS schedule recap and that they are on target to hit the deadline by June 30, 2024.

13. Keeping track of GridView Issues

This topic was moved to a future meeting.

14. Public Comment

No comments were made.

15. Review New Action Items

- Gas generation output for Washington and Oregon by month for all cases
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Loads comparison by Region
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Compare Dump energy Net MW and Net Generation
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Compare hourly transmission for V1 WA/OR \$0 emission case COI, etc.
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Review Path 27; how deadband is modeled
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Numeric value for energy/capacity for big changes
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- 24-hour average shape by month—BTM energy storage shape
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Update Valmy to ST—NG plant?
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024



PCDS Meeting Minutes—March 13, 2024

16. Upcoming Meetings

March 27, 2024..... Virtual

April 10, 2024..... Virtual

April 24, 2024..... Virtual

17. Adjourn

Mr. Harris adjourned the meeting without objection at 11:38 a.m.



Exhibit A: Attendance List

Members in Attendance

Tyler Butikofer Energy Strategies
Renchang Dai Puget Sound Energy, Inc.
Jose Diaz..... Los Angeles Department of Water and Power
Jennifer Galaway Portland General Electric Company
Sylvia Gard Puget Sound Energy, Inc.
Michael Granados..... Los Angeles Department of Water and Power
Kevin Harris Pacific Northwest National Laboratory
Eliana Ibarra Imperial Irrigation District
Richard Jensen..... California Energy Commission
Jon Jensen..... WECC
Anders Johnson..... Bonneville Power Administration—Transmission
Chelsea Loomis Western Power Pool
Kimberly McClafferty NorthWestern Energy
Gary Simonson..... PacifiCorp
Chifong Thomas Thomas Grid Advisor
Stan Williams Bonneville Power Administration—Transmission
Yi Zhang..... California Independent System Operator

Members not in Attendance

Jamie Austin PacifiCorp
Manuel Gomez..... El Paso Electric Company
Chris Hagman American Transmission Company
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



PCDS Meeting Minutes—March 13, 2024

Bharat Vyakaranam..... Pacific Northwest National Laboratory

Di Xiao..... Southern California Edison Company

Others in Attendance

Hazel Aragon Sacramento Municipal Utility District

Calista Belmont Bonneville Power Administration—Transmission

Jose Castaneda Imperial Irrigation District

Jyotsna Ch..... NV Energy

Ashton Davis..... WECC

Colby Johnson..... Energy Strategies

Joey Jones..... WECC

Trevor Rombough Black Hills Corporation

Kellen Romero..... WECC

Serena Stiehl WECC

Melissa Villa Imperial Irrigation District

