

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 December 4, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Jon Jensen, Senior 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.

On a motion by Chelsea Loomis, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on November 20, 2024.

On a motion by Chifong Thomas, the PCDS approved the minutes from November 20, 2024.

5. Review Previous Action Items

Mr. Jensen reviewed action items carried over from the PCDS meeting on November 20, 2024. Action items that are not closed and will be carried forward can be found on the WECC website. Jensen received the newly updated PNNL monthly and weekly hydro data, as well as the new SunZia shapes, these updates will be implemented in the next run. Jensen needs to review the BC Hydro daily operating ranges spreadsheet with Mr. Harris before updating. The CO2 cost has been updated to reflect the most recent version of Integrated Energy Policy Report (IEPR). He relocated units from western Colorado to eastern Colorado, Cielo Azul was also moved to Delaney, and some units from BPA have been moved to Nevada. Also, some double counting of Mica units were noted due to some being a repower, not an addition, they will be corrected in the next run.

6. Announcements

Mr. Jensen announced an extra meeting be held on January 8, 2025, then bi-weekly meetings will continue starting January 15, 2025.

7. 2034 ADS PCM V2 Follow-up

Mr. Jensen gave a follow-up on the Anchor Data Set (ADS) Production Cost Model (PCM) V2. In the presentation he showed the hydro capacity difference between the 2032 vs 2034 ADS in BC, BPA, and CAISO areas. A review of retirement dates of generators showed 822 units retiring between years 2023 to 2049. These units include hourly resources, energy storage, hydro and thermal. 67 units have less than 15 years of service, retiring in the same timeline. 8 units with mismatched retirement dates between the 2034 ADS and the Loads & Resources (L&R) data. WECC plans to address these by the next run. The spreadsheet can be found on the PCDS Team Site. He showed a list of relocated units, then a diagram of BC Hydro unserved loads for Bus 80766. The presentation can be found on the WECC website.

8. GridView Version Approval Discussion

The PCDS discussed which GridView version to use starting with the 2034 ADS PCM V3 release.

On a motion by Stephen Benchluch, the PCDS approved the change to GridView version 10.3.80.

9. Future Inflator Discussion

This topic will be discussed in a future meeting.

10. Non-Conforming Load Discussion

The PCDS' review of non-conforming loads in each area, ratios, and data centers is an ongoing project.

11. Pumped Storage/Energy Storage Aggregations Run Times

Anuj Patil will send out a spreadsheet on the aggregations and run times for the PCDS members to review for a discussion at the next meeting.

12. Keeping Track of GridView Issues

There were no GridView issues to discuss.



13. Public Comment

No comments were made.

14. Review New Action Items

- Send out the aggregated energy storage/ pump storage methodology/run time results
 - Assigned To: Anuj Patil
 - Due Date: December 11, 2024

15. Review New Action Items

- Run ADS with T3 on to see if there are any unserved loads.
 - Assigned To: WECC
 - Due Date: December 11, 2024

16. Review New Action Items

- Compare hydro monthly/weekly max capacity with the L&R data.
 - Assigned To: WECC
 - Due Date: December 11, 2024

17. Review New Action Items

- Review BC Hydro generation with non-conforming loads on Bus 80766
 - Assigned To: WECC
 - Due Date: December 11, 2024

18. Upcoming Meetings

December 11, 2024 Virtual

December 18, 2024 Virtual

January 8, 2025 Virtual

19. Adjourn

Mr. Harris adjourned the meeting without objection at 11:37 a.m.



Exhibit A: Attendance List

Members in Attendance

Stephen Benchluch Accelergen Energy
Tyler Butikofer Energy Strategies
Lance Felleson PacifiCorp
Michael Granados Los Angeles Department of Water and Power
Kevin Harris Pacific Northwest National Laboratory
Richard Jensen California Energy Commission
Jon Jensen WECC
Bhavana Katyal Portland General Electric Company
Chelsea Loomis Western Power Pool
Chifong Thomas Thomas Grid Advisor
Di Xiao Southern California Edison Company
Yi Zhang California Independent System Operator

Members not in Attendance

Max Code Pattern Energy Group LP
Renchang Dai Puget Sound Energy, Inc.
Jose Diaz Los Angeles Department of Water and Power
Sylvia Gard Puget Sound Energy, Inc.
Martin Green Pattern Energy Group LP
Anders Johnson Bonneville Power Administration—Transmission
Kimberly McClafferty NorthWestern Energy
Effat Moussa San Diego Gas and Electric
Eliana Orta Imperial Irrigation District
Nader Samaan Pacific Northwest National Laboratory
Bharat Vyakaranam Pacific Northwest National Laboratory
Stan Williams Bonneville Power Administration—Transmission



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Others in Attendance [Only for technical committees]

Jamie Austin Qualus, LLC
Andrew Fay WECC
Joey Jones WECC
David Meyer Puget Sound Energy, Inc.
Anuj Patil WECC
Ian Schomer Newton Energy Group, LLC

