

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:00 a.m. MT on October 23, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Andrew Fay, Associate 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 Chifong Thomas, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on October 9, 2024.

On a motion by Chifong Thomas, the PCDS approved the minutes from October 9, 2024.

5. Review Previous Action Items

Anuj Patil, Senior Reliability Modeling Engineer, reviewed action items carried over from the PCDS meeting on October 9, 2024. Action items that are not closed and will be carried forward can be found on the WECC website.

6. Announcements

WECC has been working with PNNL Hydro Department, who said they have more recent data for the Canadian units for BC Hydro, so WECC will create a change case for that and will have it ready before they release the next case.

7. 2034 ADS PCM V2 Follow-up

Mr. Patil gave a follow-up on the 2034 Anchor Data Set (ADS) Production Cost Model (PCM) V2. In the presentation he showed comparison between the 2034 ADS V2 (No Tier3) and 2034 ADS V2_10-16 (No Tier3) cases. WECC will need to review the Transwest Express Modeling

with the Wyoming Generic Wind and confirm what is there. He showed comparisons for annual energy generation by category, and sub-region, and annual dumped generation by state and type, and comparison for the average Locational Marginal Price (LMP) congestion (\$/MWh). They have been using GridView 10.3.62. He showed the net regional transfers comparison, which shows a reduction from the southwest and an increase to the northwest. There was a four-hour decrease in the run time in the new change case. No unserved loads were observed in the 2034_ADS V2_10-16 (No Tier 3) case. The presentation is available on the WECC website.

8. Unserved Load and Tier 3 Resources

The PCDS discussed unserved loads and Tier 3 resources, including the effects on LMP and ancillary services. In previous case runs, there were some unserved loads and high average LMP. It was suggested to turn on the Tier 3 in some of the areas to adjust some of the unserved load to see whether it solved the problem. When they were run with look-ahead and MIO, there were no unserved loads, but there were some high LMP price spikes. The time the price spikes happened needs to be identified before it can be decided whether to continue with reviewing or keep the Tier 3 resources turned off. It was decided to run some tests with all ancillary components turned off, then turn them on one at a time so they can narrow down what is causing the ancillary component to not be met, then investigate what is available to serve the component and whether there is enough of it. Then they can decide where to go from there.

9. SERVM Users in the PCDS

The PCDS discussed whether anyone is using the SERVM and how they are using it. SERVM is a zonal PCM and does not support nodal PCM. The question was asked whether there was any future in which there would be a zonal ADS version used by the PCDS. It was decided that, if it is to be used in any capacity, it would need to be used along with GridView, not in place of it.

10. Keeping Track of GridView Issues

Yi Zhang has found issues in version 10.3.80. He suggested that, if the group is going to run any simulations, they should ask Hitachi for the latest version.

11. Public Comment

No comments were made

12. Review New Action Items

- Review TWE project and its impact on Wyoming generic unit.
 - Assigned To: WECC



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- Due Date: November 6, 2024
- Review annual dumped energy in Nevada.
 - Assigned To: WECC
 - Due Date: November 6, 2024
- Review ancillary services and high LMP prices.
 - Assigned To: WECC
 - Due Date: November 6, 2024
- Firm share of SunZia and TWE should be exempt from AB 32.
 - Assigned To: WECC
 - Due Date: November 6, 2024
- Review the 4 SunZia units, and whether they are within the limits of the DC lines.
 - Assigned To: WECC
 - Due Date: November 6, 2024
- Relocate the Tier 2 solar units from Tijuana to Mexicali.
 - Assigned To: WECC
 - Due Date: November 6, 2024

13. Upcoming Meetings

November 6, 2024 Virtual

November 20, 2024 Virtual

December 4, 2024 Virtual

14. Adjourn

Mr. Harris adjourned the meeting without objection at 11:31 a.m.



Exhibit A: Attendance List

Members in Attendance

Stephen Benschluch Accelergen Energy
Tyler Butikofer Energy Strategies
Michael Granados Los Angeles Department of Water and Power
Martin Green Pattern Energy Group LP
Kevin Harris Pacific Northwest National Laboratory
Anders Johnson Bonneville Power Administration—Transmission
Effat Moussa San Diego Gas and Electric
Chifong Thomas Thomas Grid Advisor
Bharat Vyakaranam Pacific Northwest National Laboratory
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
Lance Felleson PacifiCorp
Jennifer Galaway Portland General Electric Company
Sylvia Gard Puget Sound Energy, Inc.
Richard Jensen California Energy Commission
Jon Jensen WECC
Chelsea Loomis Western Power Pool
Kimberly McClafferty NorthWestern Energy
Eliana Orta Imperial Irrigation District
Nader Samaan Pacific Northwest National Laboratory
Stan Williams Bonneville Power Administration—Transmission



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Others in Attendance [Only for technical committees]

Jamie Austin Quals Corp
Andrew FayWECC
Jahami Hassan..... Los Angeles Department of Water and Power
Agnieszka Hernandez..... Leeward Energy
Joshua Hurst..... Los Angeles Department of Water and Power
Colby JohnsonEnergy Strategies
Joey Jones.....WECC
Anuj PatilWECC
David Tovar..... Epelectric
Bhandari Yogesh..... Nextera Energy

