

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:01 a.m. MT on October 9, 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 Chifong Thomas, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Harris introduced the minutes from the meeting on September 11, 2024, and October 2, 2024.

On a motion by Chelsea Loomis, the PCDS approved the minutes from September 11, 2024, and October 2, 2024.

5. Review Previous Action Items

Mr. Jensen reviewed action items carried over from the PCDS meeting on October 2, 2024. Action items that are not closed can be found on the WECC website.

6. Announcements

Mr. Jensen informed the PCDS that the Anchor Data Set (ADS) cases should be on the ADS page on the website in about three weeks.

7. Demand Response Methodology and Results

Andy Satchwell with LBNL reviewed the Demand Response Methodology and the results. His presentation included the development process of demand response hourly profiles in the 2034 ADS. They use the Demand Response (DR) modeling approach to realistically model DR

resources within the constraints of WECC's Production Cost Model (PCM). The DR programs are dispatched for reliability and economic purposes. The research begins with three data inputs: non-firm loads, the 2034 hourly loads, and 2034 hourly prices. A fourth input is DR program dispatch constraints. Next, they use resource availability—what DR is available every hour. Next, they dispatch the DR for every hour, then they get the output for hourly shapes for the load zones. The presentation is on the WECC website.

8. 2034 ADS PCM V2 Follow-up

Mr. Jensen gave an update on the ADS PCM V2. He informed the PCDS that the ADS Power Flow (PF) / PCM mapping is finished, and they are adding the associated units to the PF, then they will send it to PNNL so they can do their C-Page round trips. The latest case study (2034 ADS V2_10-7) they ran with Tier 3 supply turned supply off. They also ran a comparable V2 case with Tier 3 turned off supply to keep V2 and V2_10-7 comparable. They also did some generator clean up, fuels, and tech type in the change cases. The presentation is on the WECC website.

9. Review New Supply and Energy Storage Locations

Mr. Jensen stated the many new supply and energy storage locations moved in SPP along the Greenlink corridor and did not need to show actual buses.

10. CEC: Fuel Substitution, Transportation Electrification, Energy Efficiency, Additional Achievable, etc.

The PCDS discussed the California Energy Commission (CEC) and how to handle the different load modifiers. It was suggested to take the base load shape and the electrification shape and any other shapes that are appropriate that are different from the fundamental load shape, review them independently, then sum them up, and that is what is to be modeled.

11. Overview of GridView User Group Takeaways

The PCDS discussed the GridView user group takeaways. In the new version of GridView, they have a notion tool and a web Geographic Information Systems (GIS) tool which will allow you to look at the system more visually and outputs geographically. There is also a barrier method solver in addition to the LP solver.

12. North Songs Overview

Mr. Harris presented a diagram of the power flow showing the correct modeling of North Songs. The model seemed to be missing three 230 kV line looping in-out of North Songs 230 kV bus. The PCDS agreed that this should be updated in the 2034 ADS PCM.



13. SERVVM Users in the PCDS

This topic will be discussed in a future meeting.

14. Keeping Track of GridView Issues

There were no GridView issues to discuss.

15. Public Comment

No comments were made.

16. Review New Action Items

- Add North Songs Project in the 2034 ADS.
 - Assigned To: WECC
 - Due Date: October 23, 2024
- Check the fuel assignments and exempt geothermal and bio from the CO2 group
 - Assigned To: WECC
 - Due Date: October 23, 2024

17. Upcoming Meetings

October 23, 2024..... Virtual

November 6, 2024..... Virtual

November 20, 2024..... Virtual

18. Adjourn

Mr. Harris adjourned the meeting without objection at 11:32 a.m.



Exhibit A: Attendance List

Members in Attendance

Stephen Benschluch Accelergen Energy
Jose Diaz..... Los Angeles Department of Water and Power
Lance Felleson PacifiCorp
Sylvia Gard Puget Sound Energy, Inc.
Michael Granados..... Los Angeles Department of Water and Power
Martin Green Pattern Energy Group LP
Kevin Harris Pacific Northwest National Laboratory
Jon Jensen..... WECC
Chelsea Loomis Western Power Pool
Kimberly McClafferty NorthWestern Energy
Effat Moussa..... San Diego Gas and Electric
Chifong Thomas Thomas Grid Advisor
Yi Zhang..... California Independent System Operator

Members not in Attendance

Tyler Butikofer Energy Strategies
Max Code..... Pattern Energy Group LP
Renchang Dai Puget Sound Energy, Inc.
Jennifer Galaway Portland General Electric Company
Richard Jensen..... California Energy Commission
Anders Johnson..... Bonneville Power Administration—Transmission
Eliana Orta..... Imperial Irrigation District
Nader Samaan..... Pacific Northwest National Laboratory
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 [Only for technical committees]

Hazel Aragon

Jamie Austin Qualus Corp

Allison Campbell Pacific Northwest National Laboratory

Anna Edwards Puget Sound Energy, Inc.

Andrew Fay WECC

Joey Jones WECC

David Meyer

Anuj Patil WECC

Andy Satchwell LBNL

Huey Yuan Southern California Edison Company

Matt Zapotocky WECC

