<Public>



1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:04 a.m. MT on April 10, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Ashton Davis, Staff Reliability Modeling Specialist, 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 March 27, 2024.

On a motion by Chelsea Loomis, the PCDS approved the minutes from March 27, 2024

5. Review Previous Action Items

Mr. Harris, reviewed action items carried over from the PCDS meeting on March 27, 2024. Action items that are not closed and will be carried forward can be found here.

6. Announcements

Mr. Harris reviewed the announcements. The 2034 Anchor Data Set (ADS) Production Cost Model (PCM) V1 has been posted to the website.

7. C-page hour that PCDS would like to see from 3032 ADS Case

Mr. Davis pointed out that PNNL is working on a software model C-page hour, in which they analyze an hour from the ADS case, and that they are working on a heavy summer hour/heavy winter hour. It was explained that the C-page takes a one-hour simulation and makes a power flow case. Then it goes through a program that adds voltage and other components that are then cut up with the staple system so that a power flow case can be made from that data. A

caution was given about using data from off-peak hours because the generation will be showing for the complete plant, and there may be some generators shut down at that time. He asked whether there were any hours that the PCDS would like to see in the round trip. No specific hours were suggested.

8. Hydro Resources

Nathalie Voisin presented on the WECC ADS 2034 hydropower scope update. She began by reviewing the 2032 workflow providing data and methods for selection of median year, weekly targets, daily fluctuations, and evaluation. Next, she reviewed the 2034 workflow. The first step is to review fixed schedule plants. Then update the datasets. Review the mode of operations, followed by extending into Canada and, finally, evaluation. It was decided for Ms. Voisin to move forward with this project.

9. Wind/Solar Capacity Factor Review

Kellen Romero, Staff Reliability Assessment Engineer, reviewed the wind and solar capacity factor (CF). He showed charts for CF yearly averages by solar and wind units and by areas 1–36. He also showed a chart for behind-the-meter (BTM) rooftop solar CF yearly averages and how they have lower CF but are as expected. The approval item he presented was based on the wind CF under 20%. The PCDS discussed the validity of the under-20% CF and the need to look at above 40 MW in some of the areas. It is necessary to identify units whose actual CF does not line up with historical information and review the shapes for improvements. Mr. Romero needs to contact NREL to resolve the issue of CF being significantly lower. The PCDS added two action items and called for approval of the shapes for the resources under 40 MW, further review from NREL on identified shapes for those above 40 MW, then final review from the PCDS after the NREL analysis.

On a motion by Ms. Loomis, the PCDS approved the wind and solar shapes as presented under 40 MW.

10. Keeping Track of GridView Issues

Ms. Loomis pointed out two issues she wanted to make sure were addressed. One: make sure the interfaces are consistent with the WECC definitions and that there are not extra interfaces. Two: she believes there needs to be a high-level review of Load Buses in subareas to ensure they are marked to the correct area.

11. Public Comment

No comments were made.



12. Review New Action Items

- Ensure Puget Sound LNR update is included.
 - Assigned To: Ashton Davis
 - Due Date: April 24, 2024
- If the wind and solar shape is substantially lower, what can be done? Contact NREL to see whether this issue can be resolved.
 - Assigned To: Kellen Romero
 - Due Date: April 24, 2024
- Review wind and solar shapes with issues over 40 MW. Get review from NREL.
 - Assigned To: Kellen Romero
 - Due Date: April 24, 2024
- Work with Chelsea to review the "area load" definition.
 - Assigned To: Jon Jensen
 - Due Date: April 24, 2024
- Review non-WECC path interfaces.
 - o Assigned To: Jon Jensen
 - Due Date: April 24, 2024
- Resource retirement updates are reflected in the L&R data.
 - o Assigned To: Shaton Davis and Gary Simonson
 - Due Date: April 24, 2024

13. Upcoming Meetings

April 24, 2024	Virtual
May 8, 2024	Virtual
May 22, 2024	Virtual

14. Adjourn

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



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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
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
Chelsea Loomis	Western Power Pool
Kimberly McClafferty	NorthWestern Energy
Effat Moussa	San Diego Gas and Electric
Gary Simonson	PacifiCorp
Chifong Thomas	Thomas Grid Advisor
Yi Zhang	California Independent System Operator

Members not in Attendance

Jennifer Galaway	Portland General Electric Company
Manuel Gomez	El Paso Electric Company
Chris Hagman	American Transmission Company
Jon Jensen	WECC
Anders Johnson	Bonneville Power Administration – Transmission
Akhil Mandadi	Arizona Public Service Company
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



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Di Xiao	Southern California Edison Company
Others in Attendance	
Jose Castaneda	Imperial Irrigation District
Ashton Davis	WECC
Joshua Hurst	Los Angeles Department of Water and Power
Joey Jones	WECC
David Meyer	Puget Sound Energy, Inc.
Anuj Patil	WECC
Jacob Richardson	
Kellen Romero	WECC
David Tover	El Paso Electric Company
Melissa Villa	Imperial Irrigation District
Nathalie Voisin	

