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Production Cost Data Subcommittee DRAFT Meeting Minutes March 13, 2024 Virtual

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 By the Meter Photovoltaic (BTM 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, are working on reviewing the 2024 Loads & Resources (L&R) data and should be able to provide the mapping for the version 2 of the 2034 Anchor Data Set (ADS) soon.

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.

The presentation is posted on the WECC website.

7. 2034 ADS PCM NorthernGrid Region Comparison

Chelsea Loomis led the discussion on 2034 Anchor Data Sets (ADS) Production Cost Model (PCM) V1 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 2. The PCDS looked at how much CO₂ output (short tons) came from either WA/OR 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 changes 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. Curtailment % by area. 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 hourly transmission flow and loads comparison.

9. 2034 ADS PCM V1External Comments

Mr. Jensen led a discussion of external comments about the 2034 ADS PCM V1. Colby Johnson commented that the Locational Marginal Price (LMP) is higher than it has been in the past. He also mentioned one of the busses, CSU BUS ID#73477 is still being reported as PSCO as owner instead of WACM, 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 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
 - o Due Date: March 27, 2024
- Loads comparison by Region.
 - Assigned To: Jon Jensen
 - o Due Date: March 27, 2024
- Compare Dump energy Net MW and Net Generation
 - Assigned To: Jon Jensen
 - o 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.
 - o Assigned To: Jon Jensen
 - o Due Date: March 27, 2024
- Numeric value for energy/capacity for big changes
 - o Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- 24-hour Average Shape by month BTM Energy Storage Shape
 - o Assigned To: Jon Jensen
 - Due Date: March 27, 2024
- Update Valmy to ST NG Plant?
 - Assigned To: Jon Jensen
 - Due Date: March 27, 2024



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16. Upcoming Meetings

March 27, 2024	Virtual
April 10, 2024	Virtual
April 24, 2024	Virtual

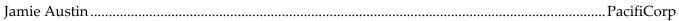
17. Adjourn

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	
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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
Bharat Vyakaranam	Pacific Northwest National Laboratory
Di Xiao	Southern California Edison Company

Others in Attendance [Only for technical committees]

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

