

Production Cost Data Subcommittee

Meeting Minutes
Virtual

August 6, 2025

10:00 to 11:30 a.m. Mountain Time

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Chair called the meeting to order at 10:02 a.m. MT on August 6, 2025. 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 policy can be found on wecc.org.

3. Approve Agenda

K. Harris introduced the proposed meeting agenda.

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

4. Review and Approve Previous Meeting Minutes

K. Harris introduced the minutes of the meeting on July 9, 2025.

On a motion by K. Harris, the PCDS approved the minutes of the meeting on July 9, 2025.

5. Review Previous Action Items

J. Jensen reviewed action items carried over from the PCDS meeting on June 9, 2025.

The PCDS discussed the open action items including the review of which busses are spilling energy the most in the case. The PCDS discussed the operation of the TransBay Cable and the change case that was created; they concluded to move it to the optional folder, so it is available to use if needed or wanted.

J. Jensen will post the 2036 Anchor Data Set (ADS) schedule to the public WECC.org PCDS webpage.

Action items that are not closed and will be carried forward can be found on wecc.org.

6. GridView Enhancements Discussion

J. Jensen and Anuj Patil, Senior Reliability Modeling Engineer, presented the GridView enhancements and led the discussion on the following items:

- Maintenance Windows
- Non-thermal Maintenance
- More load shapes for data center loads for higher load factors
- Develop generic data, down-time battery, ramp rates, non-thermal, etc.
- Generic ramp rate for hydro and pump storage

The PCDS has dependable capacity questions for wind and solar. Yi Zhang, California Independent System Operator (CAISO), will follow up with the generation/study team to get the wind patterns.

Jin Zhu, Hitachi, presented on thermal maintenance scheduling and battery operation constraints. J. Jensen will post the presentation to WECC.org and will add this to a future PCDS meeting agenda to continue discussion.

The PCDS would like to discuss whether converting battery to battery models should be done or should it be kept as pump storage. The PCDS would like to discuss modeling wind production tax credits.

J. Jensen will post the TransBay cable changes (350 to 400 MW flow) as an optional change to the PCDS team site.

7. Unserved Load

K. Harris presented and led the discussion on unserved load and generation by development status for each area, showing where areas were short on future resources. He will send his list of action items to J. Jensen after the meeting.

8. 2034 ADS PCM Comments

This item will be moved to a future meeting.

9. 2036 ADS PCM Schedule and Comments

This item will be moved to a future meeting.

10. Keeping Track of GridView Issues

This item will be moved to a future meeting.

11. Public Comment

J. Jensen notified the PCDS that the latest GridView version is being used and tested.

12. Review New Action Items

- Follow up with the generation/study team to get the wind patterns
 - Assigned To: Jin Zhu
 - Due Date: September 3, 2025

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- Address K. Harris unserved load items
 - Assigned To: WECC
 - Due Date: August 20, 2025
 - PCDS discussion: Convert battery to battery model or keep as pump storage
 - Assigned to: WECC
 - Due Date: August 20, 2025
 - PCDS discussion: Modeling wind production tax credit
 - Assigned to: WECC
 - Due Date: August 20, 2025
 - Post the TransBay cable changes (350 to 400 MW flow) as optional change
 - Assigned To: WECC
 - Due Date: August 20, 2025

13. Review Upcoming Meetings

August 20, 2025 Virtual
September 3, 2025 Virtual
September 17, 2025 Virtual

14. Adjourn

K. Harris adjourned the meeting without objection at 11:33 a.m.

Exhibit A: Attendance List

Members in Attendance

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| Stephen Benchluch | Accelergen Energy |
| Al Francis De Vera | NV Energy |
| Joel Eggemeyer | Black Hills Corporation |
| Martin Green | Pattern Energy Group LP |
| Kevin Harris | Pacific Northwest National Laboratory |
| Jon Jensen | WECC |
| Anders Johnson | Bonneville Power Administration—Transmission |
| Bhavana Katyal | Portland General Electric Company |
| Chelsea Loomis | Western Power Pool |
| Effat Moussa | San Diego Gas and Electric |
| Eliana Orta | Imperial Irrigation District |
| Amit Rao | Puget Sound Energy, Inc. |
| Ian Schomer | Newton Energy Group, LLC |
| Chifong Thomas | Thomas Grid Advisor |
| David Tovar | El Paso Electric Company |
| Yi Zhang | California Independent System Operator |

Members not in Attendance

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|----------------------------|--|
| Tyler Butikofer | Energy Strategies |
| Max Code | Pattern Energy Group LP |
| Renchang Dai | Puget Sound Energy, Inc. |
| 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 |
| Boris Idelchik | NV Energy |
| Richard Jensen | California Energy Commission |
| Kimberly McClafferty | NorthWestern Energy |
| Jacob Richardson | Western Resource Advocates |
| Nader Samaan | Pacific Northwest National Laboratory |
| Bharat Vyakaranam | Pacific Northwest National Laboratory |
| Stan Williams | Bonneville Power Administration—Transmission |
| Di Xiao | Southern California Edison Company |

Others in Attendance

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| Syed Ahis | NV Energy |
| Andrew Fay | WECC |
| BK Ketineni | Pacific Northwest National Laboratory |
| Nicole Lee | WECC |



Anuj Patil.....WECC
Brandon WildeWECC
Jin Zhu Hitachi