

1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee Chair, called the meeting to order at 10:03 a.m. MT on June 26, 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 June 19, 2024.

On a motion by Chelsea Loomis, the PCDS approved the minutes from June 19, 2024.

5. Review Previous Action Items

Mr. Jensen reviewed action items carried over from the PCDS meeting on June 19, 2024. Action items that are not closed and will be carried forward can be found [here](#).

6. Announcements

Mr. Jensen announced that WECC has started a few runs of the 2034 Anchor Data Set (ADS) Production Cost Model (PCM) V2, and the initial runs were not working. The issue was the hydro monthly and weekly variable schedule had some units set to a max cap of zero. GridView cannot operate with a zero-max cap. So, the value is set to 0.001 for those units.

7. 2034 ADS PCM V2 Draft Update

Mr. Jensen gave an update on the 2034 ADS PCM V2. He started a run yesterday and it ran completely through and finished. He showed a presentation of the results of the run. The 2034 ADS V2 VH3 ran with GridView 10.3.62, no mixed integer optimization (MIO) or Lookahead,

and it was distributed into two runs that took 10.5 hours. He checked the unserved loads and found one area with 153,854 MWh of unserved load. He believes it will go away with MIO and Lookahead on. It was suggested to look at the locational marginal pricing (LMP) for each hour to try to figure out when the unserved load is occurring. Mr. Jensen showed a chart of annual energy comparing the 2034 V1 and V2. The V1 is based on the 2023 L&R data, and V2 is based on the most up-to-date 2024 L&R data. the chart comparison had thermal, distributed generation—behind the meter (DG-BTM), energy storage, hydro, nuclear, photovoltaic (PV), and wind. In the second chart, he broke down the categories into individual energy resources. The next chart showed the spillage comparison of V1 and V2. In V1, there is 10,031 GWh, and V2 has 125,202 GWh total amount of spillage in each. There are a lot more resources in general in V2 and more capacity, so that is where the extra spillage comes from. Mr. Jensen believes the amount of spillage in V2 will go down when he does a run with MIO and Lookahead turned on. He then showed a Regional Net Transfer GWh. It shows the difference in the energy transfer and the direction from region to region. The next chart shows the net annual flow for the Paths and the direction they run. Next, he showed the Path Utilization chart. It is broken into three path utilizations, U75, U90, and U99. U75 is the percentage of hours that the path is over 75% of its rating. U90, is a path that is over 90% of its rating, and U99 is when the Path is over 99% of its rating. The presentation is posted on the WECC website, and the case is posted on the Team site.

8. Transmission Projects Follow-up

Mr. Jensen gave a follow-up for the SunZia HVDC and TransWest Express projects. He is waiting to hear back from SunZia to know how many megawatts to use. TransWest suggested to use 3,700 MW.

9. California EV Load

Mr. Harris suggested breaking out the California Electric Vehicle (EV) Load into a separate load modifier. The California Energy Commission (CEC) has hourly profiles that go out about 15 years. From there, you can look at all the components and how they are divided up, then they are added together. The EV Load is one and so is BTM PV. It was suggested they be excluded from the monthly load shape, the monthly load forecast be calculated, then use that in the PCM, and adjust for the calendar year being used for the EV profile. Then use that information as an independent component to the hourly load forecast. There are multiple components in this.



10. Keeping Track of GridView Issues

Mr. Jensen and Mr. Harris showed a table with the Eastern dataset power flow. They have multiple load components at this bus. Harris wants everyone to be aware that areas are now being built with multiple components.

11. Public Comment

No comments were made.

12. Review New Action Items

- Email Nathalie let her know that the Max cap cannot be zero in GridView. Replace with 0.001
 - Assigned To: Jon Jensen
 - Due Date: July 10, 2024

13. Upcoming Meetings

July 10, 2024..... Virtual
July 17, 2024..... Virtual
July 31, 2024..... Virtual

14. Adjourn

Mr. Harris adjourned the meeting without objection at 11:00 a.m.



Exhibit A: Attendance List

Members in Attendance

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
Richard Jensen..... California Energy Commission
Jon Jensen..... WECC
Anders Johnson..... Bonneville Power Administration—Transmission
Chelsea Loomis Western Power Pool
Effat Moussa..... San Diego Gas and Electric
Gary Simonson..... PacifiCorp
Chifong Thomas Thomas Grid Advisor
Stan Williams Bonneville Power Administration—Transmission

Members not in Attendance

Di Xiao..... Southern California Edison Company
Tyler Butikofer Energy Strategies
Jennifer Galaway Portland General Electric Company
Kimberly McClafferty NorthWestern Energy
Eliana Orta..... Imperial Irrigation District
Nader Samaan..... Pacific Northwest National Laboratory
Bharat Vyakaranam..... Pacific Northwest National Laboratory
Yi Zhang..... California Independent System Operator

Others in Attendance [Only for technical committees]

Max Code..... Pattern Energy
Enoch Davis..... WECC
Miguel Garcia..... Los Angeles Department of Water and Power



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Martin Green Pattern Energy
Joshua Hurst..... Los Angeles Department of Water and Power
Joey Jones.....WECC
Anuj PatilWECC
Jacob Richardson Western Resource Advocates
David Tovar..... Epelectric
Matt Zapotocky.....WECC
Jiewei Zheng..... Los Angeles Department of Water and Power
Jin Zhu..... Hitachi Energy

