

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:34 a.m. on April 19, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Tyler Butikofer, System Adequacy Planning Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Ms. Austin introduced the proposed meeting agenda.

On a motion by Chifong Thomas, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Ms. Austin introduced the minutes from the meeting on April 5, 2022.

On a motion by Chifong Thomas the PCDS approved the minutes from April 5, 2022.

The minutes from the meeting on April 12, 2022, will be approved during the next meeting.

5. Validating the GridView with fully Integrated Software Upgrades (including Weekly-Hydro)

Kostas Oikonomou, Pacific Northwest National Lab (PNNL), presented on validating the GridView (GV) with the fully integrated software upgrades including the weekly hydro. The final evaluation included the weekly hydro dispatch logic, and the modeling enhancements. Mr. Oikonomou presented the software updates with the new GV version 10.3.24. There was a comparison done between the new, and old version. The dispatch in the new version results in an increase in hydro generation in the Northwest region, and results in reduced output of natural gas in the Northwest and California. The presentation included a comparison of both versions showing the impacts of the hydro dispatch between core Columbia, and Lower Snake Plants. There was also a comparison between the balancing authorities. He presented the relationship between key optimization parameters for the weekly dispatch logic in the new GV version, the hourly dispatch for selected weeks in the new version, and the total interchange in

the power flows (PF). The purpose of the presentation is to decide which version to use. The PCDS held a discussion about using the new GridView Version.

Motion made by Steven Wallace, the PCDS approved to use the new GridView version 10.3.24 for the 2032 anchor dataset (ADS) that incorporates all the enhancements, and to use the new hydro data developed by PNNL. An amendment was added to the initial motion that allows for consideration of timely added enhancements to the software, and bug fixes.

The presentation is posted to the [WECC website](#).

6. CO2 Price Forecast

Mr. Butikofer presented on implementing the CO2 price forecast for 2022 in the workbook as was approved at the preceding PCDS meeting. The spreadsheet focuses on California CO2 pricing. British Columbia's information is still needed. The spreadsheet is currently using British Columbia's pricing from the 2030 ADS.

Motion made by Steven Wallace, the PCDS approved to accept the CO2 workbook, concept, and the values that are in it as the representation of the 2032 ADS modeling. Future updates will be considered as prompted.

The presentation is posted to the [WECC website](#).

7. Developing the Loads Hourly Forecast

Mr. Butikofer gave an update on developing the loads hourly forecast. The 2018 load shed should be complete this week.

8. Review of Old and New Action Items

- Update the 2032 ADS hydro portion with information provided by Kostas.
 - Assigned To: Tyler Butikofer, Kostas Oikonomou
 - Due Date: April 26, 2022
- Present the loads hourly forecast during the next meeting as available.
 - Assigned To: Tyler Butikofer
 - Due Date: April 26, 2022

9. Public Comment

Ms. Austin said that NREL has updated their hourly profiles, and that it is now available online.



10. Review Upcoming Meetings

- April 26, 2022,Virtual
- May 3, 2022Virtual
- May 10, 2022Virtual.

11. Adjourn

Ms. Austin adjourned the meeting without objection at 11:52 a.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin PacifiCorp
 Kevin Harris Pacific Northwest National Laboratory
 Hank McIntosh San Diego Gas and Electric
 Effat Moussa San Diego Gas and Electric
 Chifong Thomas Thomas Grid Advisor
 Steven Wallace Comprehensive Power Solutions, LLC
 Yi Zhang California Independent System Operator

Members not in Attendance

Lee Alter Tucson Electric Power
 Hazel Aragon California Energy Commission
 Ben Brownlee Energy Strategies
 Jose Diaz Los Angeles Department of Water and Power
 Christopher Fecke-Stoudt Arizona Public Service Company
 Monica Garcia El Paso Electric Company
 Manuel Gomez El Paso Electric Company
 Michael Granados Los Angeles Department of Water and Power
 Chris Hagman American Transmission Company
 Bill Hosie PSI Power System Innovation Corp.
 Tito Inga-Rojas British Columbia Hydro and Power Authority
 Anders Johnson Bonneville Power Administration—Transmission
 Harris Lee Salt River Project
 Amy Li Southern California Edison Company
 John Liang Public Utility District No. 1 of Snohomish County
 Peter Mackin GridBright, Inc.
 Akhil Mandadi Arizona Public Service Company
 John D. Martinsen Public Utility District No. 1 of Snohomish County



Ahlmahz Negash Tacoma Power
Daniel Ramirez..... Energy Strategies
Xiaobo Wang California Independent System Operator
Stan Williams Bonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company

Others in Attendance

Dave Angell..... Northwest Power Pool
Tyler Butikofer WECC
Stan Holland..... WECC
Jon Jensen..... WECC
Richard Jensen..... California Energy Commission
Bhavana Katyal WECC
BK Ketineni..... WECC
Nicole Lee WECC
Hongyan Li..... Hitachi Energy
Kostos Oikonmou Pacific Northwest National Laboratory
Emily Tozier Salt River Project
Nathlie Voisin Pacific Northwest Natinal Laboratory

