

Production Cost Data Subcommittee Meeting Minutes May 10, 2022

Virtual

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:34 a.m. MT May 10, 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

Approval of the minutes from the meeting on May 3, 2022, has been postponed until the next meeting.

5. Review Summary of "Resources" at the "Area" level, for all three sources: 2032HS, L&R, 2032 ADS Reference Case—comparing Capacity and Technology

Mr. Butikofer presented the review summary of resources at the area levels for the 2032 heavy summer (HS), loads and resources (L&R), and the 2032 Anchor Data Set (ADS) Reference Case. The PCDS needs to ensure that all the L&R residuals are reflected. The PCDS discussed that all PCDS members needs to review their respective areas to help resolve the issues. Concern was expressed about what the process will be if the differences cannot be found, and how long it might take.

The spreadsheet will be posted to the PCDS team site and emailed to the PCDS to allow members to add comments.



6. Validating NREL iteration #4 Wind and Solar data—Follow up on pending questions

Ms. Austin presented validation of National Renewable Energy Laboratory's (NREL) iteration #4 for wind and solar. NREL recently provided behind the meter (BTM) data and the PCDS had questions addressed in the presentation.

Anthony Lopez, NREL, presented the locations for 10-20% capacity factors, and the location with lower than 10% capacity factors.

Ms. Austin presented on behind-the-meter (BTM) photovoltaic (PV). NREL submitted the dGen data needed for the PCDS approval item last week. The PCDS discussed using the dGen data unless the U.S. Energy Information Administration (EIA) numbers do not match. The PCDS would like an EIA number demonstration if there are changes and to verify that the numbers are validated. The PCDS requested a spreadsheet that shows the comparison of the dGen values to the EIA numbers. The comparison will be presented after the data is available.

The presentation is posted to the WECC website.

7. NREL Data—adding EIA numbers to Wind and Solar plant identifier

Ms. Austin gave an update on the NREL data and adding EIA numbers to the wind and solar plant identifiers. The data that NREL posted has a unique name for the generator showing the voltage, bus number, and the geo coordinates. The California Energy Commission (CEC) verified that they would use the data in their modeling and would like the EIA number. There is not stability in the bus number, or plant name which caused issues with mapping. The EIA number is necessary but will cause a problem in a year or two if the EIA is not fixed.

Mr. Butikofer presented the wind shapes versus low-capacity factor spreadsheet showing that the EIA numbers can be added to the dataset if the unique names are added.

The PCDS discussed that the EIA number needs to be added as soon as possible because it is covered under the Department of Energy (DOE) grant and an agreement with the CEC.

NREL verified that they will be able to create the new naming profile and upload it to one drive for WECC to upload to the WECC website.

8. Review of Old Action Items

Nicole Lee, Administrative Assistant reviewed action items carried over from the PCDS meeting on May 3, 2022. Action items that are not closed and will be carried forward can be found here.



9. Public Comment

No comments were offered.

10. Review New Action Items

- Post the spreadsheet showing the differences in the 2032 ADS reference case to allow the PCDS to add comments and help resolve the issues within their area. Post to the PCDS team site and send an email to the PCDS with the link.
 - o Assigned To: Tyler Butikofer, and Nicole Lee
 - o Due Date: May 12, 2022
- Review and help with the differences in the 2032 HS, L&R, and 2032 ADS reference case.
 - o Assigned To: PCDS
 - o Due Date: May 17, 2022
- Let the PCDS know when the dGen and EIA comparison can be presented.
 - o Assigned To: Tyler Butikofer
 - o Due Date: May 17, 2022

11. Upcoming Meetings

May 10, 2022,	Virtual
May 17, 2022,	Virtual
May 24, 2022,	Virtual

12. Adjourn

Ms. Austin adjourned the meeting without objection at 12:00 p.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin	PacifiCorp
Michael Granados	Los Angeles Department of Water and Power
Kevin Harris	Harris PCM
Hank McIntosh	San Diego Gas and Electric
Effat Moussa	San Diego Gas and Electric
Chifong Thomas	
Steven Wallace	
Yi Zhang	California Independent System Operator
Members not in Attendance	
Lee Alter	Tucson Electric Power
Hazel Aragon	
Ben Brownlee	Energy Strategies
Jose Diaz	Los Angeles Department of Water and Power
Christopher Fecke-Stoudt	
Monica Garcia	El Paso Electric Company
Manuel Gomez	El Paso Electric Company
Chris Hagman	
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



Kimberly McClafferty	NorthWestern Energy
Ahlmahz Negash	Tacoma Power
Daniel Ramirez	Energy Strategies
Matthew Stajcar	NorthWestern Energy
Sirisha Tanneeru	Public Service Company of Colorado (Xcel Energy)
Xiaobo Wang	California Independent System Operator
Stan Williams	Bonneville Power Administration—Transmission
Di Xiao	Southern California Edison Company
Others in Attendance	
Dave Angell	
Tyler Butikofer	WECC
Candice Gimbel	Salt River Project
Jon Jensen	WECC
Richard Jensen	
Bhavana Katyal	WECC
BK Ketineni	WECC
Nicole Lee	WECC
Anthony Lopez	National Renewable Energy Laboratory
Justin Radl	EDF Renewable Energy
Abe Rias	WECC
Nader Samaan	Pacific Northwest National Laboratory
Alyssa Tavares	National Renewable Energy Laboratory
Emily Tozier	Salt River Project
Byron Woertz	WECC

