

Production Cost Data Subcommittee Meeting Minutes July 5, 2022

Virtual

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 2:05 p.m. MT on July 5, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Jon Jensen, System Adequacy 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

The minutes will be approved during a future meeting.

5. Status of data implementation in the 2032 ADS

Mr. Jensen gave an update the data implementation in the 2032 Anchor Data Set (ADS) case and the data fixes that were identified during the June 28, 2022, PCDS meeting. The bus loads and the CO₂ costs were updated. The auto calculation was turned on. The case was run and failed on July 1, 2022. It likely failed because the case was being run in different version of GridView. The case is being rerun in the new version and was sent to Hitachi-ABB to help research the error.

The PCDS discussed posting the case to the team site. The PCDS discussed issues with shapes occurring in Canada along with British Columbia (BC) hydro generation with 5,000 MW of dumped energy. The issues might have been resolved and will be discussed further.

6. Identifying Hydro Data Issues Running 2032 ADS

Ms. Austin presented the ADS initial dispatch results, showing excessive power flow on path 3 from US to British Columbia (BC)) in the first half of the year, and reverses in the second half. The pattern is inconsistent with actual flows from the preceding three years.



Bhavana Katyal, System Adequacy Engineer, and Kevin Harris, Pacific Northwest National Laboratory (PNNL), presented an update on the BC hydro data. There was a spreadsheet created allowing to model load, hydro, and solar. The operating range is estimated by month and then the system needs to be balanced. The BC hydro has been fixed and needs to be rerun. The purpose is to balance the hydro to serve the load. The PCDS discussed that a branch being open can restrict the flow.

The presentation is posted to the WECC website.

Ms. Austin presented the BC hydro compared to historical amounts. There is zero import from the United States the second half of the year in the 2032 ADS. The PCDS discussed that the problem occurs on July 1, 2022, the same day on which the model is failing. The same monthly profiles have been used for the last six years. The PCDS discussed looking into the data operating range.

Yi Zhang, California System Operator (CAISO), presented the data issues that were found in the ADS Production Cost Model (PCM). Mr. Zhang stated that Arizona did not report behind the meter (BTM). The PCDS discussed that the BTM photovoltaic (PV) needs to be updated since there are still old profiles being used. It was also mentioned that the fuel type needs to be modified for thermal generators. The PCDS discussed modifying the generator profiles and researching the missing generators. Another comparison needs to be done between the loads and resources (L&R) and the power flow along with the data from two years ago. WECC is going to review the changes made, the summary for the load shapes will be verified, and the current PCM will be compared to the L&R and will be presented at the next meeting.

The presentation is posted to the WECC website.

7. Discuss Future Meeting Times

The PCDS agreed to change the PCDS meeting time to 9:00-10:30 MT on Wednesdays.

8. Public Comment

No comments were offered.

9. Review New Action Items

- Post the 2032 ADS case to the PCDS Team Site.
 - Assigned To: Jon Jensen
 - o Due Date: July 12, 2022
- Research the missing generator profiles.
 - Assigned To: Steven Wallace and Jon Jensen
 - o Due Date: July 12, 2022



- Compare the PCM to the L&R during the 7/12/22 PCDS meeting.
 - o Assigned To: Jon Jensen
 - o Due Date: July 12, 2022
- Reach out to the L&R data submitters to see why the load forecast is different for 2030 versus the 2032.
 - o Assigned To: Jon Jensen
 - o Due Date: July 12, 2022
- Ask Amanda Sargent to present what was found and send her a link to Jamie's presentation from June 28, 2022.
 - o Assigned To: Jon Jensen
 - o Due Date: July 12, 2022
- Address items from the BC hydro and the data issues presented today. Report the findings during the next PCDS meeting.
 - o Assigned To: WECC Staff
 - o Due Date: July 12, 2022

10. Upcoming Meetings

July 12, 2022	Virtual
July 19, 2022	Virtual
July 26, 2022	Virtual

11. Adjourn

Ms. Austin adjourned the meeting without objection at 3:43 p.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin	PacifiCorp
Michael Granados	Los Angeles Department of Water and Power
Kevin Harris	Pacific Northwest National Laboratory
John Liang	Public Utility District No. 1 of Snohomish County
Chelsea Loomis	Western Power Pool
Hank McIntosh	
Effat Moussa	
Matthew Stajcar	
Chifong Thomas	
Emily Tozier	Salt River Project
Steven Wallace	
Stan Williams	Bonneville Power Administration—Transmission
Yi Zhang	California Independent System Operator
Members not in Attendance	
	Tucson Electric Power
Lee Alter	Tucson Electric PowerCalifornia Energy Commission
Lee Alter Hazel Aragon	
Lee Alter Hazel Aragon Jose Diaz	
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt	California Energy Commission Los Angeles Department of Water and Power
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt Jonathon Flores	
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt Jonathon Flores Monica Garcia	
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt Jonathon Flores Monica Garcia Manuel Gomez	
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt Jonathon Flores Monica Garcia Manuel Gomez Chris Hagman	
Lee Alter Hazel Aragon Jose Diaz Christopher Fecke-Stoudt Jonathon Flores Monica Garcia Manuel Gomez Chris Hagman Bill Hosie	
Lee Alter	



Amy Li	Southern California Edison Company
Peter Mackin	GridBright, Inc.
Akhil Mandadi	Arizona Public Service Company
John D. Martinsen	
Kimberly McClafferty	NorthWestern Energy
Ahlmahz Negash	Tacoma Power
Daniel Ramirez	Energy Strategies
Sirisha Tanneeru	Public Service Company of Colorado (Xcel Energy)
Xiaobo Wang	California Independent System Operator
Di Xiao	Southern California Edison Company
Others in Attendance	
Stan Holland	WECC
Jon Jensen	WECC
Richard Jensen	
Bahavana Katyal	WECC
BK Ketineni	WECC
Nicole Lee	WECC
Alyssa Tavares	
Louis Vigil	El Paso Electric Company
Nathalie Voisen	Pacific Northwest National Laboratory
Byron Woertz	WECC
Jin Zhu	Hitachi-ABB

