

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:32 a.m. on May 3, 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 meetings on April 12, 2022, April 19, 2022, and April 26, 2022.

On a motion by Nader Samaan, the PCDS approved the minutes from April 12, 2022, April 19, 2022, and April 26, 2022.

The PCDS discussed the minutes and posting documents into one location. The DDVM will be where the supporting documents will be placed. Ms. Austin asked the PCDS to assist with the process.

5. Validating NREL iteration #4 Wind and Solar data

Julio Gutierrez, California Energy Commission, presented the validation of National Renewable Energy Laboratory (NREL) iteration #4 wind and solar. Mr. Gutierrez compared California Independent System Operator's (CAISO) wind and solar to NREL's updated wind and solar. He also compared iteration #3 to iteration #4. The time used needs to be converted from Pacific time to Mountain time to be consistent with the Anchor Data Set (ADS). The exact mapping to the shapes was not available. Iteration #4 showed reduced differences between both datasets.

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

Ms. Austin presented the validation of NREL's data versus actual data, which used a sampling of generators in the PacifiCorp footprint with data unitized to protect confidentiality. There was improvement in iteration #4 which better captures plant magnitude and profiles. Concern was expressed about needing confidential plant data to better align actual data with the matching turbine type profile. Participants agreed that improvements can be made if more information is available about the plant. The PCDS will move forward with what is available and will discuss this again in the future.

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

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

Ms. Austin presented that NREL has agreed to add the U.S. Energy Information Administration (EIA) plant code number to plant Unique ID. This is consistent with a promise made to the California Energy Commission (CEC) in exchange for their involvement in doing the validation with actual data; the CEC does not use WECC power flow case bus numbers in their PCM modeling but uses EIA numbers for wind and solar plant identifiers.

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

7. Status of Creating Hourly Load Profiles

Mr. Butikofer proposed using the EIA 861 capacities because they are available now. Mr. Butikofer said that if the NREL data is available tomorrow it can be used instead.

The PCDS discussed concern about using 440 BTM and not having the data available soon enough. Concern was expressed about how to proceed if the dGen data is not provided tomorrow and not having the 2018 data available.

The PCDS discussed that notice of an approval item was not posted in the agenda or the WECC website. Approval items require a five days' notice. WECC will find out if this motion needs to be officially approved during a future meeting. By consensus the PCDS decided to move forward with the motion and officially approve it later, if needed.

On a motion by Kevin Harris, the PCDS approved use of the following for BTM data in the 2032 ADS, unless the group determines a change is warranted:

- Modeled Load "Gross" = L&R (Load + BTM);
- monthly capacity and energy;
- Base 2018 hourly load shape := BAA hourly shape + BAA BTM PV shape (dGen);
- Installed BTM PV capacity (dGen);
- 2032 BTM PV capacity: model on the supply side (not greater than 500 generators).

8. Public Comment

No comments were received.

9. Review of Previous Action Items

Due to time constraints the review of previous action items was moved to a future meeting.

10. Review of New Action Items

- Present the EIA-861 and dGen capacity 2032 BTM data during the next meeting.
 - Assigned To: Tyler Butikofer
 - Due Date: May 17, 2022
- Report if today’s approval item needs to be officially reapproved after posting the motion.
 - Assigned To: Byron Woertz
 - 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 12:31 p.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin.....PacifiCorp
 Jose Diaz..... Los Angeles Department of Water and Power
 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 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
 Christopher Fecke-Stoudt..... Arizona Public Service Company
 Monica Garcia El Paso Electric Company
 Manuel Gomez..... El Paso Electric Company
 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 LeeSalt 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 McClaffertyNorthWestern Energy
Ahlmahz Negash Tacoma Power
Daniel Ramirez.....Energy Strategies
Matthew StajcarNorthWestern Energy
Sirisha TanneeruPublic Service Company of Colorado (Xcel Energy)
Xiaobo WangCalifornia Independent System Operator
Stan WilliamsBonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company

Others in Attendance

Tyler ButikoferWECC
Candice Gimbel.....Salt River Project
Julio Gutierrez..... California Energy Commission
Jon Jensen.....WECC
Richard Jensen..... California Energy Commission
Bhavana KatyalWECC
BK Ketineni.....WECC
Luba Kravchuk.....California Independent System Operator
Nicole LeeWECC
Chelsea Loomis Northwest Power Pool
Nader Samaan..... Pacific Northwest National Laboratory
Alyssa Tavares California Energy Commission
Emily TozierSalt River Project
Byron WoertzWECC

