

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:33 a.m. MT on June 21, 2022. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Tyler Butikofer, 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 modifications made to previously approved May 17, 2022, minutes.

On a motion by Steven Wallace, the PCDS approved the minutes from May 17, 2022.

5. Status and inventory of data compiled in the 2032 ADS PCM

Mr. Butikofer gave an update on the status and inventory of the data compiled in the 2032 Anchor Data Set (ADS) Production Cost Model (PCM). Updates will be made to Arizona Public Service's (APS) behind-the-meter (BTM) and load capacity. Updates will also be made to British Columbia's (BC) hydro system, and changes to the typology and resources. After the changes are made the case will be rerun.

6. ADS 2032_Proposed RPS Dispatch Costs

Ms. Austin presented the proposed renewable portfolio standard (RPS) dispatch costs for the 2032 ADS. There will be a follow up with the Los Angeles Department of Water and Power (LADWP) and Sacramento Municipal Utility District (SMUD) to find out if hydro or wind and solar should be used first. Banking hydro for Bonneville Power Administration (BPA) was discussed and the PCDS will follow up. The PCDS discussed looking at individual hydro

generators and having a threshold of 30 MW generators. An offline meeting will be held to discuss this further.

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

7. Summary of Initial Dispatch

Ms. Austin presented the 2032 ADS summary of initial dispatch results. Hitachi-ABB diagnosed that the time error was caused by inaccurate assumptions for calculating per unit shapes leading to overloads and congestion on the transmission. The 2030 ADS and 2032 ADS area loads were compared, showing high load growth for several areas and a large drop in another. The 2032 ADS case has limited flow from California to the Northwest compared to the 2030 ADS case, which should be researched. The BC hydro also needs to be reevaluated. PCDS will meet the Production Cost Model Subcommittee (PCMS) and the Anchor Power Flow Work Group (APFWG) after the 2032 ADS case is complete to discuss best practices.

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

Mr. Butikofer presented the summary of initial dispatch. There is more solar and wind in the 2032 ADS case. The solar was identified separately. The data errors will be fixed and reported. The 2032 ADS case is posted. The PCDS was encouraged to review the data and to assist with validation.

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

8. Public Comment

No comments were offered.

9. Review New Action Items

- Send an email to Jose Diaz with LADWP asking if hydro would spill before, after, or at the same time as wind and solar.
 - Assigned To: Tyler Butikofer
 - Due Date: June 28, 2022
- Verify that there is not a data error for BPA hydro in the Pacific Northwest National Laboratory (PNNL) data.
 - Assigned To: Steven Wallace
 - Due Date: June 28, 2022
- Post inventory of data input to model.
 - Assigned To: Tyler Butikofer
 - Due Date: June 28, 2022
- Post the most recent version of the binary files.



- Assigned To: Tyler Butikofer
 - Due Date: June 28, 2022
- Hold a joint meeting with the PCMS and APFWG after the 2032 ADS case is complete to focus on best practices.
 - Assigned To: PCDS
 - Due Date: August 2, 2022
- Resolve the maintenance schedule for the ADS.
 - Assigned To: Jamie Austin
 - Due Date: June 28, 2022

10. Upcoming Meetings

June 28, 2022.....Virtual
July 5, 2022.....Virtual
July 12, 2022.....Virtual

11. Adjourn

Ms. Austin adjourned the meeting without objection at 12:02 p.m.



Exhibit A: Attendance List

Members in Attendance

Jamie Austin.....PacifiCorp
 Jose Diaz..... Los Angeles Department of Water and Power
 Kevin Harris Pacific Northwest National Laboratory
 Hank McIntosh San Diego Gas and Electric
 Chifong Thomas Thomas Grid Advisor
 Emily TozierSalt River Project
 Steven Wallace Comprehensive Power Solutions, LLC
 Stan WilliamsBonneville Power Administration—Transmission
 Yi Zhang.....California Independent System Operator

Members not in Attendance

Lee Alter.....
 Hazel Aragon California Energy Commission
 Ben Brownlee Energy Strategies
 Christopher Fecke-Stoudt..... Arizona Public Service Company
 Jonathon Flores Los Angeles Department of Water and Power
 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 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
Effat Moussa..... San Diego Gas and Electric
Ahlmahz Negash Tacoma Power
Daniel Ramirez..... Energy Strategies
Matthew StajcarNorthWestern Energy
Sirisha TanneeruPublic Service Company of Colorado (Xcel Energy)
Xiaobo Wang.....California Independent System Operator
Di Xiao..... Southern California Edison Company

Others in Attendance

Tyler ButikoferWECC
Stan Holland.....WECC
Jon Jensen.....WECC
Richard Jensen..... California Energy Commission
Bhavana KatyalWECC
BK Ketineni.....WECC
Nicole LeeWECC
Chelsea LoomisWestern Power Pool
Alan Soe San Diego Gas and Electric
Byron WoertzWECC

