

1. Welcome, Call to Order

Kevin Harris, Production Cost Model Subcommittee (PCDS) Vice Chair, called the meeting to order at 10:08 a.m. MT on November 2, 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 Engineer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Harris introduced the proposed meeting agenda.

On a motion by Chelsea Loomis, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Approval of the minutes for September 28, 2022, October 12, 2022, and October 26, 2022, has been postponed until the next meeting.

5. Review Previous Action Items

Mr. Butikofer reviewed action items carried over from the PCDS meeting on October 26, 2022. Action items that are not closed and will be carried forward can be found [here](#).

6. Assessment of the 2032 ADS PCM, V2.1 & Next Steps

Jon Jensen, System Adequacy Engineer, presented the 2032 Anchor Data Set (ADS) Production Cost Model (PCM) version 2.1. versus v2.2. He discussed the updated thermal dispatch, particularly the number of starts for the thermal generators that had a high average starts per day. Using generic data has reduced the number of starts to a reasonable number for several generators. All local EPE generators were added to the EPE nomogram which resulted in 500 binding hours instead of 2,623 in the previous version. The PCDS discussed the fuel type corrections for geothermal units. The minimum generation for all geothermal units is set to 50% and are all set to must run.

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

7. Added Changes from Version 2.1 to Version 2.2

Mr. Jensen provided an update for the changes from the ADS PCM versions 2.1 and 2.2. Previously discussed data for these changes has been collected and has been implemented. All DC Intertie data has been received and implemented except for Artesia. WECC has requested Artesia DC intertie data and hopes to receive it the week of November 7.

Mr. Jensen discussed that the surges in LMP prices in WACM, PSCO, and AESO are very minimal and has not been pursued further.

8. Public Comment

The PCDS discussed the max capacity of generation in the ADS.

9. Review New Action Items

- Prove to WECC the change for modeling hybrid batteries.
 - Assigned To: Kevin Harris
 - Due Date: November 9, 2022

10. Upcoming Meetings

November 9, 2022Virtual
November 16, 2022Virtual
November 30, 2022Virtual

11. Adjourn

Mr. Harris adjourned the meeting without objection at 11:20 a.m.



Exhibit A: Attendance List

Members in Attendance

Kevin Harris Pacific Northwest National Laboratory
 Eliana Ibarra Imperial Irrigation District
 Chelsea Loomis Western Power Pool (formerly Northwest Power Pool Corporation)
 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
 Jamie Austin PacifiCorp
 Jose Diaz..... Los Angeles Department of Water and Power
 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 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 McClaffertyNorthWestern Energy
Hank McIntosh San Diego Gas and Electric
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)
Emily TozierSalt River Project
Xiaobo WangCalifornia Independent System Operator
Stan WilliamsBonneville Power Administration—Transmission
Di Xiao..... Southern California Edison Company

Others in Attendance [Only for technical committees]

Tyler ButikoferWECC
Arkadeep Das.....WECC
Maddy Eberhard.....WECC
Jonathon Jensen.....WECC
Byron WoertzWECC
Kenny Poon British Columbia Hydro and Power Authority

