## 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.

## Review WECC Antitrust Policy

Tyler Butikofer, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

## Approve Agenda

Ms. Austin introduced the proposed meeting agenda.

**On a motion by Chifong Thomas, the PCDS approved the agenda.**

## 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.**

## 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.

## 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](https://www.wecc.org/Administrative/2022-06-14_Status%20of%20Fixing%20Identified%20Issues.pdf).

## 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](https://www.wecc.org/Administrative/2022-06-21_2032%20ADS%20Initial%20Dispatch%20Results_JA.pdf).

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](https://www.wecc.org/Administrative/2032%20ADS%20PCM%20Initial%20Dispatch_TB_JJ.pdf).

## Public Comment

No comments were offered.

## 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

## Upcoming Meetings

June 28, 2022 Virtual

July 5, 2022 Virtual

July 12, 2022 Virtual

## 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 Tozier Salt River Project

Steven Wallace Comprehensive Power Solutions, LLC

Stan Williams Bonneville 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 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

Effat Moussa San Diego Gas and Electric

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

Di Xiao Southern California Edison Company

**Others in Attendance**

Tyler Butikofer WECC

Stan Holland WECC

Jon Jensen WECC

Richard Jensen California Energy Commission

Bhavana Katyal WECC

BK Ketineni WECC

Nicole Lee WECC

Chelsea Loomis Western Power Pool

Alan Soe San Diego Gas and Electric

Byron Woertz WECC