

# Production Cost Data Subcommittee Meeting Minutes September 7, 2022

Virtual

### 1. Welcome, Call to Order

Kevin Harris, Production Cost Data Subcommittee (PCDS) Vice Chair, called the meeting to order at 10:02 a.m. MT on September 7, 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

Mr. Harris introduced the minutes from the meeting on July 20, 2022, July 27, 2022, August 3, 2022, and August 17, 2022.

Chifong Thomas, Thomas Grid Advisor, noticed an error on the July 27, 2022, minutes. A small change was noted on item 5.

On a motion by Steven Wallace, the PCDS approved the minutes from July 20, 2022, July 27, 2022, August 3, 2022, and August 17, 2022.

#### 5. Review Previous Action Items

Mr. Butikofer reviewed action items carried over from the PCDS meeting on August 24, 2022. Action items that are not closed and will be carried forward can be found here.

# 6. Inventory of PCDS Approval Items

Mr. Butikofer gave an update for the PCDS Approval Items. They are posted under the "Action Items" on the PCDS site on wecc.org.



### 7. Status of Northwest Hydro

Anders Johnson, Bonneville Power Administration (BPA), provided an update on the status of Northwest hydro data. Jon Jensen, System Stability Engineer, presented a spreadsheet for recommendations for power plant capacities. The committee discussed the information presented and discussed updating it within the production cost model (PCM).

On a motion by Steven Wallace, the PCDS approved the turbine generation capacity changes that are listed and proposed in the presentation and will incorporate them in the current Anchor Data Set in the change well.

The presentation is posted to the WECC website.

# 8. Research a Solution for Modeling Oregon and Washington CO<sub>2</sub> in the Model

Mr. Johnson and Alisa Kaseweter, BPA, presented the carbon landscape information. The goal is to build a public data set for the transmission system for at least a decade. The committee discussed Washington's Clean Energy Transformation Act (CETA) that includes carbon reduction, Washington's goals through CETA, and how fossil fuel use mitigation is managed. Oregon's clean electricity standard does not have any fees, prices, or penalties. The committee also discussed that BPA cannot sell from a specific generation unit to a specific utility, all the sales are from BPA's system. BPA has significant generation located in Washington but that isn't dedicated to Washington load.

The presentation is posted to the WECC website.

# 9. Managing Pmax Differences PCM vs. PF, Share List Identified Through Export-Hour

Mr. Jensen presented the Pmax information to the committee, specifying the differences in megawatts between PCM and power flow.

The presentation is posted to the WECC website.

# 10. Status of Developing Flex Reserves Data for the 2032 ADS

Nader Samaan, Pacific Northwest National Laboratory (PNNL), presented the flex reserves data for the 2032 ADS. Mr. Samaan indicated that it would be at least another month before the reserves were ready. For the creation of the reserves, five minutes data is needed. Five-minute data has been developed by the National Renewable Energy Laboratory (NREL) for wind and solar. For native load, five-minute data is needed. There is a significant amount of variation



inter-hour for wind and solar which can also affect the load. WECC staff was asked to request five-minute native load data. WECC staff will investigate.

The NERC requirements are used as performance criteria. If those requirements are violated, you will be notified by NERC. Because of these criteria, there is much more uncertainty with forecast error with load, wind, solar, or combined due to the concern of volatility in the net load. The goal is to figure out what the volatility is and to have sufficient additional reserves on hand within the balancing area to meet that risk.

# 11. Process Moving Forward

Mr. Butikofer provided an update on the parking lot list of post-release issues or observations that WECC has been tracking on the WECC website.

#### 12. Public Comment

No comments were offered.

### 13. Review New Action Items

- Summarize Oregon and Washington CO<sub>2</sub> policy and follow up with Ander Johnson
  - o Assigned To: Kevin Harris and Anders Johnson
  - o Due Date: September 21, 2022

### 14. Upcoming Meetings

September 14, 2022	Virtual
September 21, 2022	Virtual

# 15. Adjourn

Mr. Harris adjourned the meeting without objection at 11:35 a.m.



# **Exhibit A: Attendance List**

# **Members in Attendance**

Kevin Harris	Pacific Northwest National Laboratory
Anders Johnson	Bonneville Power Administration—Transmission
John Liang	Public Utility District No. 1 of Snohomish County
Chelsea Loomis	Western Power Pool (formerly Northwest Power Pool Corporation)
Hank McIntosh	San Diego Gas and Electric
Effat Moussa	San Diego Gas and Electric
Chifong Thomas	Thomas Grid Advisor
Steven Wallace	
Stan Williams	Bonneville Power Administration—Transmission
Yi Zhang	
Members not in Attendance	
Lee Alter	Tucson Electric Power
Hazel Aragon	
Jamie Austin	
Jose Diaz	Los Angeles Department of Water and Power
Christopher Fecke-Stoudt	
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	
Bill Hosie	PSI Power System Innovation Corp.
Eliana Ibarra	Imperial Irrigation District
Tito Inga-Rojas	British Columbia Hydro and Power Authority
Harris Lee	Salt River Project
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
Matthew Stajcar	NorthWestern Energy
Sirisha Tanneeru	Public Service Company of Colorado (Xcel Energy)
Emily Tozier	Salt River Project
Xiaobo Wang	California Independent System Operator
Di Xiao	Southern California Edison Company
Others in Attendance	
Tyler Butikofer	WECC
Arkadeep Daz	WECC
Maddy Eberhard	WECC
John Jensen	WECC
Richard Jensen	
Alisa Kaseweter	Bonneville Power Administration—Transmission
Bhavana Katyal	WECC
Luba Kravchuk	California Independent System Operator
Katie Rogers	WECC
Nader Samaan	
Louis Vigil	El Paso Electric Company
Byron Woertz	WECC
Benjamin Rodrigues	El Paso Electric Company

