Electric Reliability and Security for the West

Production Cost Data Subcommittee
Meeting Minutes
May 17, 2022
Virtual

1. Welcome, Call to Order

Jamie Austin, Production Cost Data Subcommittee (PCDS) Chair, called the meeting to order at 10:35 a.m. MT May 17, 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 made by Chifong Thomas, the PCDS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Ms. Austin introduced the minutes from the meeting on May 3, 2022.

On a motion made by Kevin Harris, the PCDS approved the minutes from May 3, 2022.

5. Review Summary of "Resources" at the "Area" level, for all three sources: 2032HS, L&R, 2032 ADS Reference Case—comparing Capacity and Technology

Mr. Butikofer presented the review summary of resources at the area levels for the 2032 heavy summer (HS), loads and resources (L&R), and the 2032 Anchor Data Set (ADS) Reference Case. There are discrepancies to review to see if there is a capacity difference with the L&R. Help will be needed from the data owner. The L&R is the actual capacity and not the Pmax.

Mr. Butikofer presented the power flow (PF) and L&R Resources Capacity Resolution Draft. The PCDS discussed how to fix discrepancies and that Pacific Northwest National Laboratory (PNNL) will help resolve them. Concern was expressed about the proposal not including the heavy winter (HW) case and that there is a limit to the capacity if the HS is only used. The L&R data will be used in of all the cases.

The presentation is posted to the WECC website.

On a motion made by Steven Wallace, the PCDS approved the PF and L&R Resources Capacity Resolution, unless the PCDS determines a change is warranted.

6. Compare BAA capacity BTM EIA-861 data versus dGen data for the year 2018

Ms. Austin presented the comparison between the balancing authority area (BAA) capacity behind the meter (BTM) U.S. Energy Information Administration (EIA)-861 data to the dGen data for the year 2018. There were discrepancies found mostly located in California. Ms. Austin spoke to the data owners to help with the validation.

Due to the discrepancies Ms. Austin recommenced using the EIA data as the California Energy Commission (CEC) data does not cover areas outside of California.

The PCDS discussed modeling BTM data on the supply side, one generator per county. Concern was expressed about increased run time, should city level (2300) data be modeled instead of county level (440) There will be an offline meeting held to discuss and document the procedure for using the dGen data to model the 2032 BTM.

The presentation is posted to the WECC website.

On a motion made by Steven Wallace, the PCDS approved:

Modeled Load "Gross" = 2032 L&R load (monthly peak and energy) + 2032 L&R monthly rooftop capacity and energy, from capacity multiplied by 2018 BTM shape (dGen –BAA) by area);

Base 2018 hourly load shape = 2018 BAA hourly shape + BAA BTM-PV Shape.

- **Considering table comparing National Renewable Energy Laboratory (NREL) BTM-PV dGen shapes with EIA-861 capacities.**
- **Use NREL BTM-PV dGen shapes if no major discrepancies with EIA-861 capacity data.**
- **If WECC staff in collaboration with the PCDS determines significant discrepancies, EIA-861 BTM-PV capacity data will be used.**

2032 BTM-PV Modeling.

- **Use the 2032 capacity from the L&R (code 18) and NREL BTM Shape.**
- **Model on supply side for no more than 550 generators.**
- **Use distribution table to distribute each generator to the proper buses or area.**
- **Confirm that modeling can be completed no later than May 20, 2022, and that using this approach will not increase GridView's run time more than 10% for a full year (8,760 hours) dispatch.**

- **Model at county level, one generator for each county and each load area within the county once methodology can be agreed upon.**
- **If methodology cannot be agreed upon, model at BAA, load area, level for initial release.**
- **After initial release, model at county level when methodology can be agreed upon.**

7. NREL Data – finalize the sequence of adding EIA plant ID to the global plant identifiers for existing generation (also some planned)

Steven Wallace, Comprehensive Power Solution (CPS), presented NREL's data and discussed finalizing the sequence by adding the EIA plant ID to the global plant identifiers for existing and planned generation. The PCDS had questions about the process and expressed concern. Due to time constraints this will be discussed offline.

The presentation is posted to the WECC website.

8. Public Comment

No comments were offered.

9. Review New Action Items

- Discuss a clear procedure for using the dGen data to model 2032 BTM generation.
  - Assigned To: Jamie Austin, Yi Zhang, Byron Woertz, and Tyler Butikofer
  - Due Date: May 19, 2022
- Discuss finalizing the sequence of adding EIA plant ID to the global plant identifiers for wind and solar hourly profiles.
  - Assigned To: Jamie Austin, Yi Zhang, Byron Woertz, and Tyler Butikofer
  - Due Date: May 31, 2022

10. Upcoming Meetings

May 24, 2022 ..... Virtual

May 31, 2022 ..... Virtual

June 7, 2022 ..... Virtual

11. Adjourn

Ms. Austin adjourned the meeting without objection at 12:36 p.m.

Exhibit A: Attendance List

Members in Attendance

Jamie Austin ..... PacifiCorp

Kevin Harris ..... Harris PCM

Effat Moussa ..... San Diego Gas and Electric

Steven Wallace ..... Comprehensive Power Solutions, LLC

Stan Williams ..... Bonneville Power Administration—Transmission

Yi Zhang ..... California Independent System Operator

Members not in Attendance

Lee Alter ..... Tucson Electric Power

Hazel Aragon ..... California Energy Commission

Ben Brownlee ..... Energy Strategies

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 McClafferty ..... NorthWestern Energy

Hank McIntosh ..... 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

Dave Angell ..... Western Power Pool

Tyler Butikofer ..... WECC

Maddy Eberhard ..... WECC

Stan Holland ..... WECC

Ben Hutchins ..... Power System Consultants

Jon Jensen ..... WECC

Richard Jensen ..... California Energy Commission

Bhavana Katyal ..... WECC

BK Ketineni ..... WECC

Mark Kootstra ..... California Energy Commission

Nicole Lee ..... WECC

Nader Samaan ..... Pacific Northwest National Laboratory

Alyssa Tavares ..... California Energy Commission

Emily Tozier ..... Salt River Project

Byron Woertz ..... WECC