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PCDS

July 19, 2023

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Loads Update

- Loads
  - We have reached out to L&R submitters, some aren't responsive
  - BPA—says due to large new load assumptions, but still investigating
  - AZPS—"We've reviewed the data and found that the extended hours of generation present in 2022, when compared to 2021, reflect the operation of the Solana solar facility thermal storage, which was unavailable in 2021. The storage technology can generate for up to six hours after sunset."
  - See what we get by next meeting; if not, then use the modifiers; also for code 18-19, if same, then use last cycle submittal for code 19
  - Approve loads next meeting

Codes

Peak Demand

Code	Category	Description
1	Firm demand	Firm demand, excluding station use
2-I	DSM—Expected available	Interruptible demand
2-L	DSM—Expected available	Load management
2-P	DSM—Expected available	Critical peak pricing with control
2-R	DSM—Expected available	Load as a capacity resource
3-IT	DSM—Total enrolled	Interruptible demand
3-LT	DSM—Total enrolled	Load management
3-PT	DSM—Total enrolled	Critical peak pricing with control
3-RT	DSM—Total enrolled	Load as a capacity resource
14	Unavailable capacity	Scheduled maintenance
15	Unavailable capacity	Inoperable capacity
16	Unavailable capacity	Forced outages, Actual Year only
18	Rooftop solar	Expected installed capacity
19	Rooftop solar	Expected demand served by rooftop solar
70	Conservation/Energy Efficiency	Conservation and Energy Efficiency
73	Standby Demand	Standby demand under contract

Energy

Code	Description
1	Firm energy
2	Non-firm energy
70	

Load Updates Responses

- AVA—Revised demand submittal, used peak codes on energy portion, double checking—very similar to original
- DOPD—Larger load due to data centers confirmed
- NEVP—Revised demand submittal, very similar to original
- CPUD—Energy is almost twice as high in the later years, and peaks reach 45% higher by ~2027 compared to the previous forecast due to load centers
  - This is what we see in the submittal also
- GCPD—Submittal was in Average MW, we converted to MW

Load Updates Responses

- ~~NWMT – Revised demand submittal~~
- SCL—Note, it was accidentally submitted in MWhs instead of GWhs. Also, the peak monthly load forecast codes in their submission were applied to the monthly energy forecasts, so we agreed to change the 70 codes for energy efficiency and conservation to '1's for firm energy

Loads Updates

- PAID, PAUT, PAWY Averaged look okay, very similar to last cycle
- CIPV—The super low hours were fixed (averaged with surrounding hours)
- SPPC—The super low hour was fixed (averaged with surrounding hours)

Loads—Waiting for Response

- Still waiting to hear from:
  - AESO—Codes 18 and 19 are the same
  - BPA—High Load Factor (LF) and Unitized Peak (UP)
  - PGE—Feb. and April weird LF
  - TPWR—High UP and Low LF
  - PSEI—Weird UP and Low LF
  - AZPS

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Decision Items: EE, DR, EV, Electrification

- How to model the following in the 2034 ADS? Same or different
  - Energy Efficiency (EE), Additional Achievable Energy Efficiency (AAEE)
    - EE and AAEE were not modeled in the 2032 ADS PCM
  - Demand Response (DR)
    - LBNL DR Dispatch Tool is used to determine when to dispatch the Demand Response for each area, which is used to create the hourly Demand Response shape
  - Electrification Load
    - Not included in 2023 L&R submittal as separate load
    - Not modeled in the 2032 ADS PCM as separate load
  - Electric Vehicle Loads
    - Not included in 2023 L&R submittal as separate load
    - Not modeled in the 2032 ADS PCM as separate load

Something to Think About

- Distributed Generation (DG)—BTM PV
  - DG-BTM (rooftop) solar shapes were created for each county and BA combination
  - Each county-level generator was distributed to each bus in the county based on data from the NREL dGen model for the amount on each bus
- BTM Storage

July 19, 2023 Meeting Discussion

- V1_Transmission Contingencies
  - Have not done this in the past
- V1_Phase Shifter Transformers—How to treat and review
  - We reviewed these a couple years ago, then left them as is

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Electric Reliability and Security for the West

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