



PCDS

July 12, 2023

WECC

# Overview

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- Overview of loads and methodology. We are not quite ready to approve, (still waiting to hear back from some entities)
- Discuss how we modeled EE, EV, DR, electrification in the 2032 ADS case and how we want to model them in the 2034 ADS case

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# Load Updates—Responses

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- AVA - Revised demand submittal, used peak codes on energy portion, double checking
- 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 also what we see in the submittal
- GCPD – Submittal was in Average Mw, we converted to Mw

# Load Updates—Responses

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- 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

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- PAID, PAUT, PAWY average look good, 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

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- 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

# How to Model 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

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- Distributed Generation (DG)
  - 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 off data from the NREL dGen model for the amount on each bus

# Next Meeting Discussion

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- V1\_Transmission Contingencies
- V1\_Phase Shifter Transformers: how to treat, and review

