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PCDS Meeting

February 26, 2025
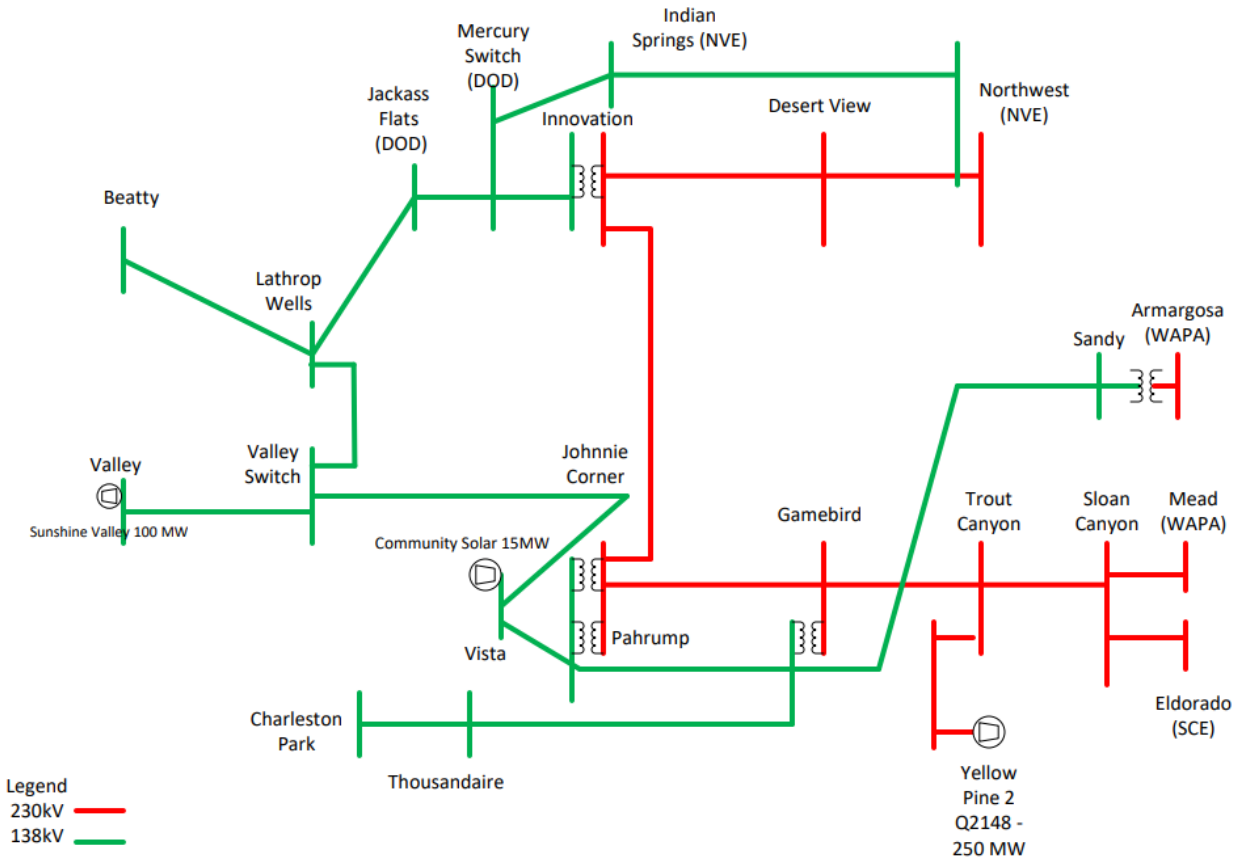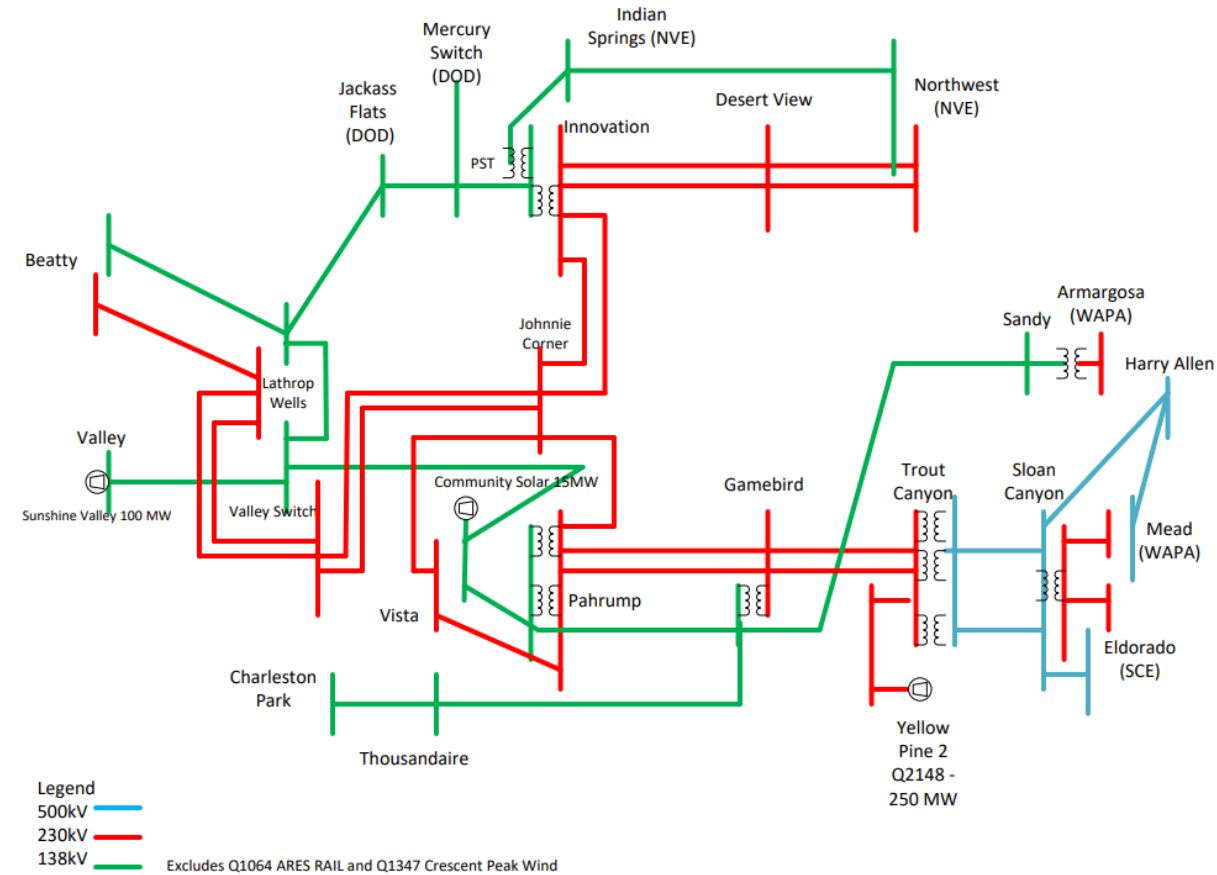
Jon Jensen

WECC

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Updates

- Received NW change cases

- CAISO Approved VEA Updates: Permission to use as change case

- Alignment Updates, many DG, netted, ignore, aggregated, retired, or not sure

- PCM Capacity to match Summer/Winter max, or Nameplate for renewables where appropriate

- Updates to maintenance
  - Days, ex 86 days
  - some derated, and were not out

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VEA Topology Changes

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2-21-2025 Case

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2-21-2025 Case

- Alignment as of 2/21/2025

  - More to come

- Capacity Rule to match L&R (Summer/Winter) max

- Need to implement VarMarginRatio so PCM doesn't exceed PF

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2-21-2025 Case

- List of changes since 1-10-2025 case:

  - Data Clean up

  - Regions, states, counties

  - Shape names updates

  - Thermal heat rate updates

  - Alignment updates to align better with pf

  - Fuel clean up updates

  - AESO Non- conforming load status update

  - Minor maintenance schedule updates

  - PCM Capacity to match Summer/Winter max, or Nameplate for renewables where appropriate

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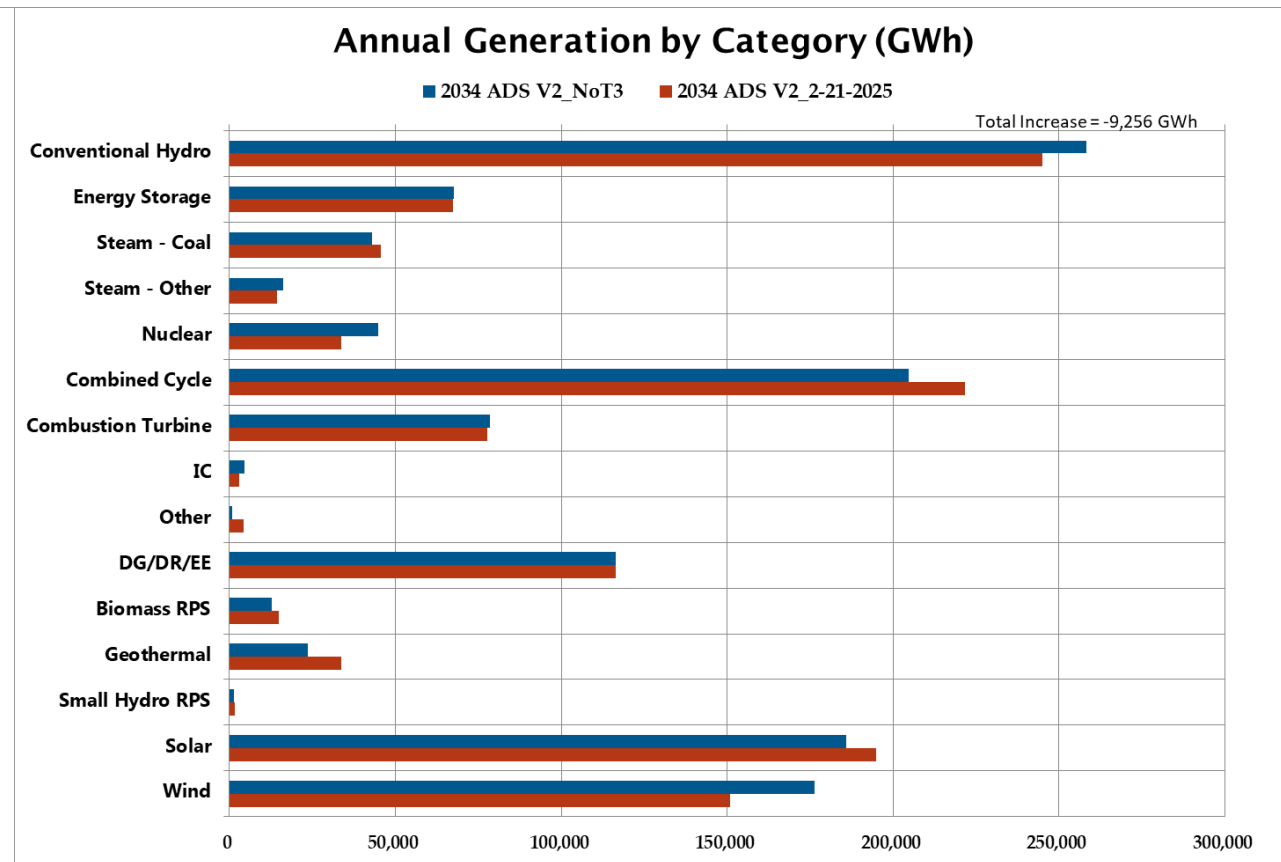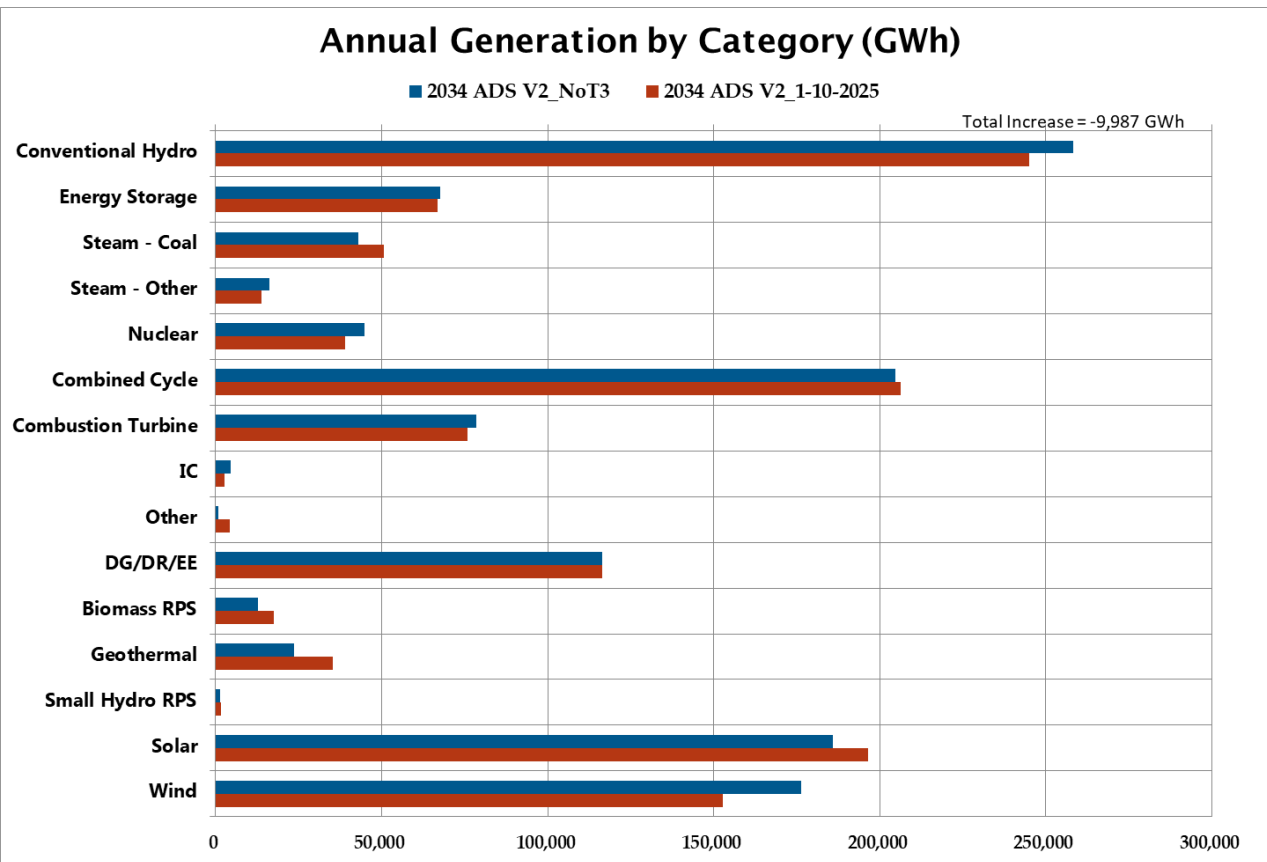<Public>

2-21-2025 Case Unserved Load
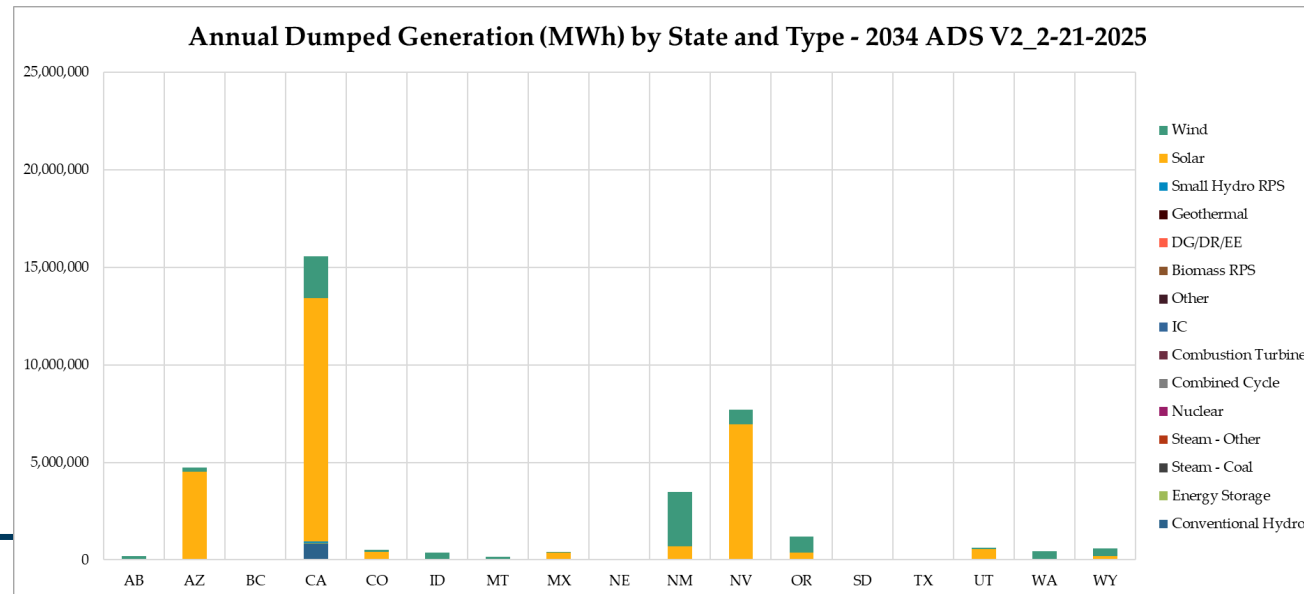
- Capacity Rule, decreasing Pmax increased unserved load
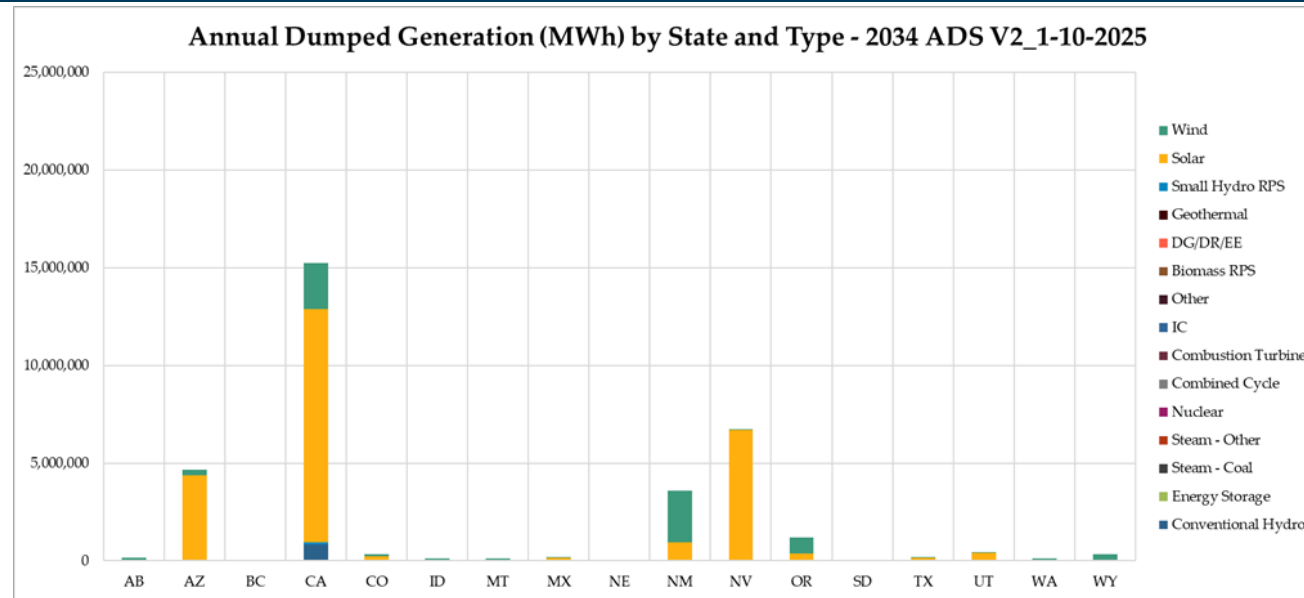
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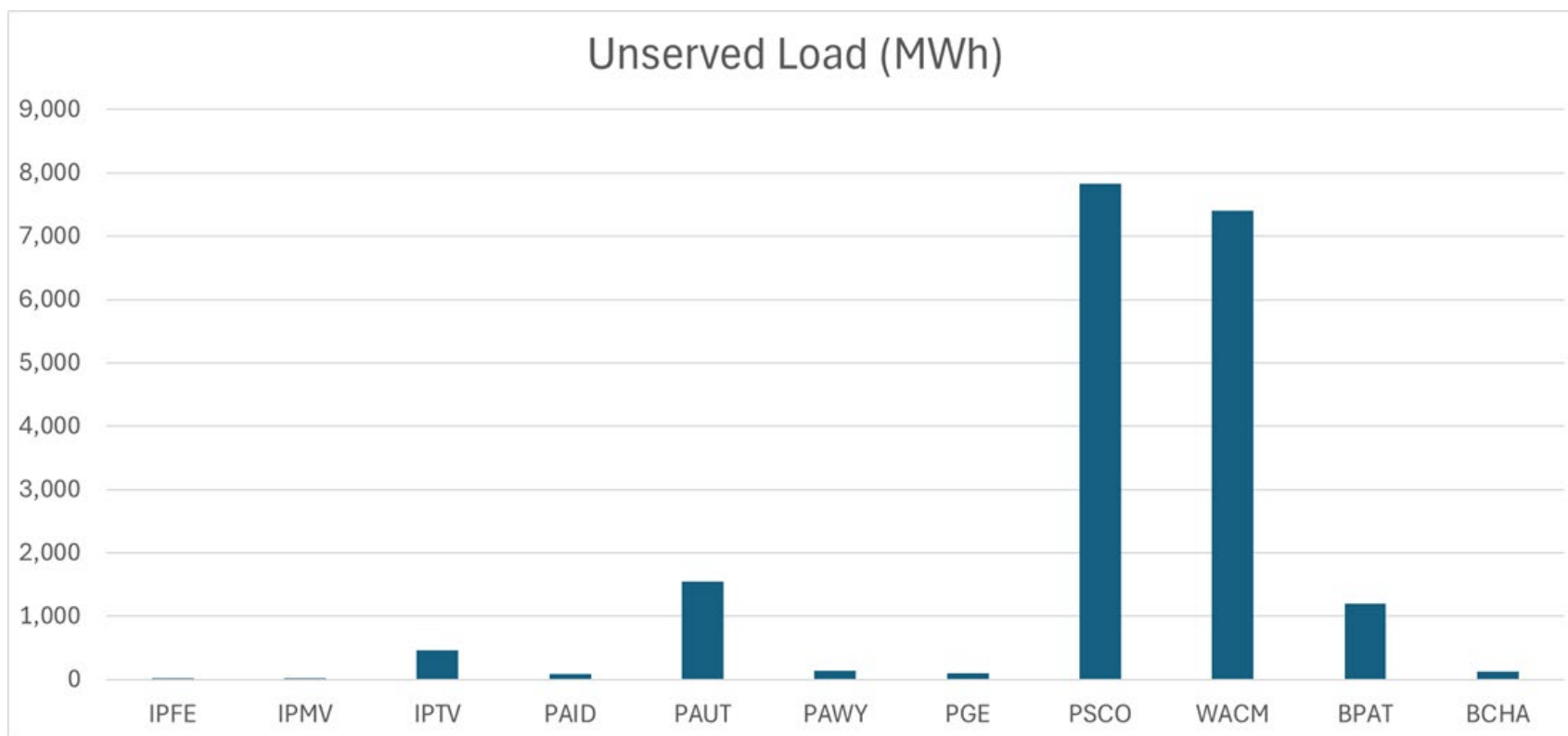
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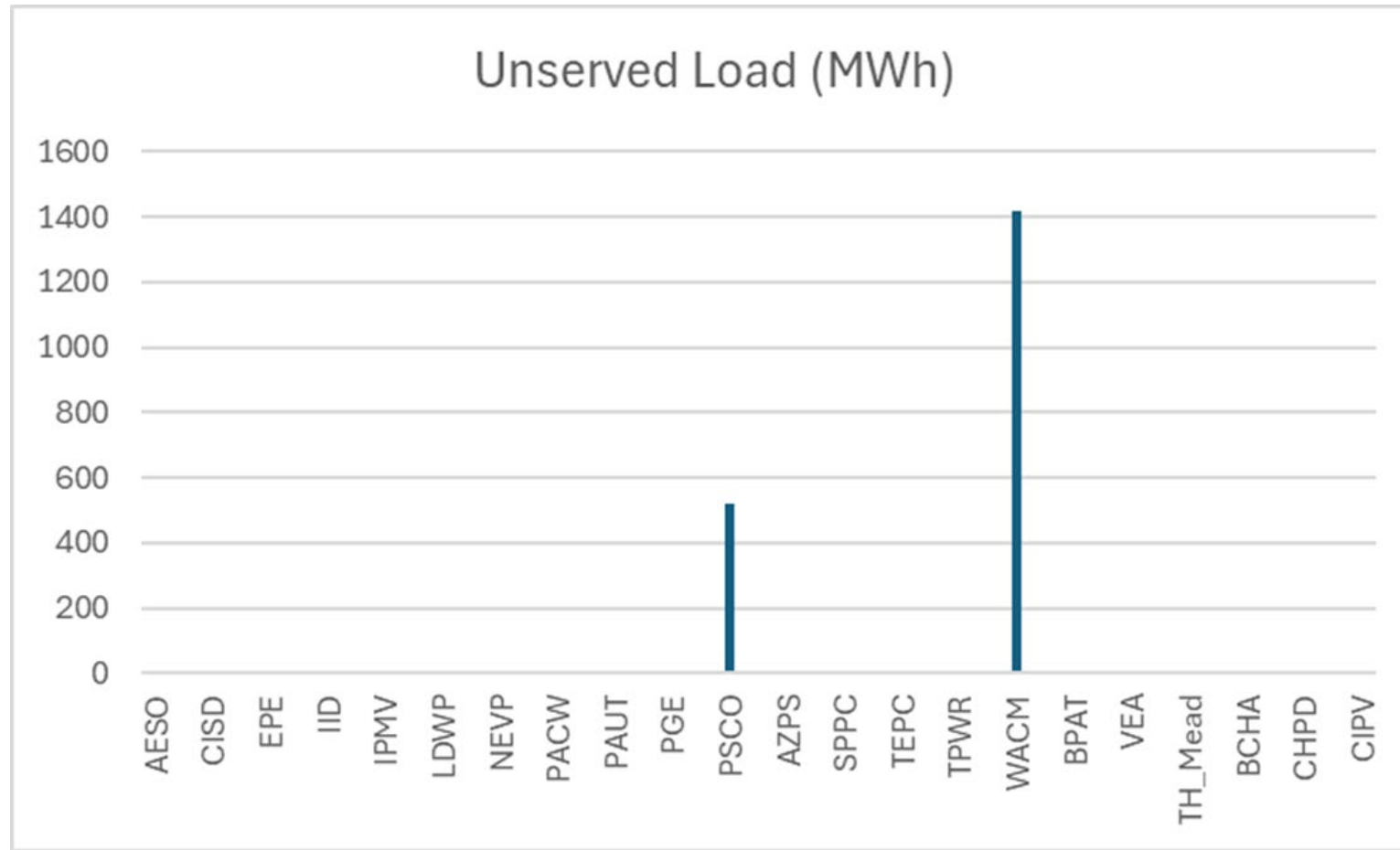
Annual Generation by Category

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Annual Dumped Energy

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Annual Net Regional Transfers
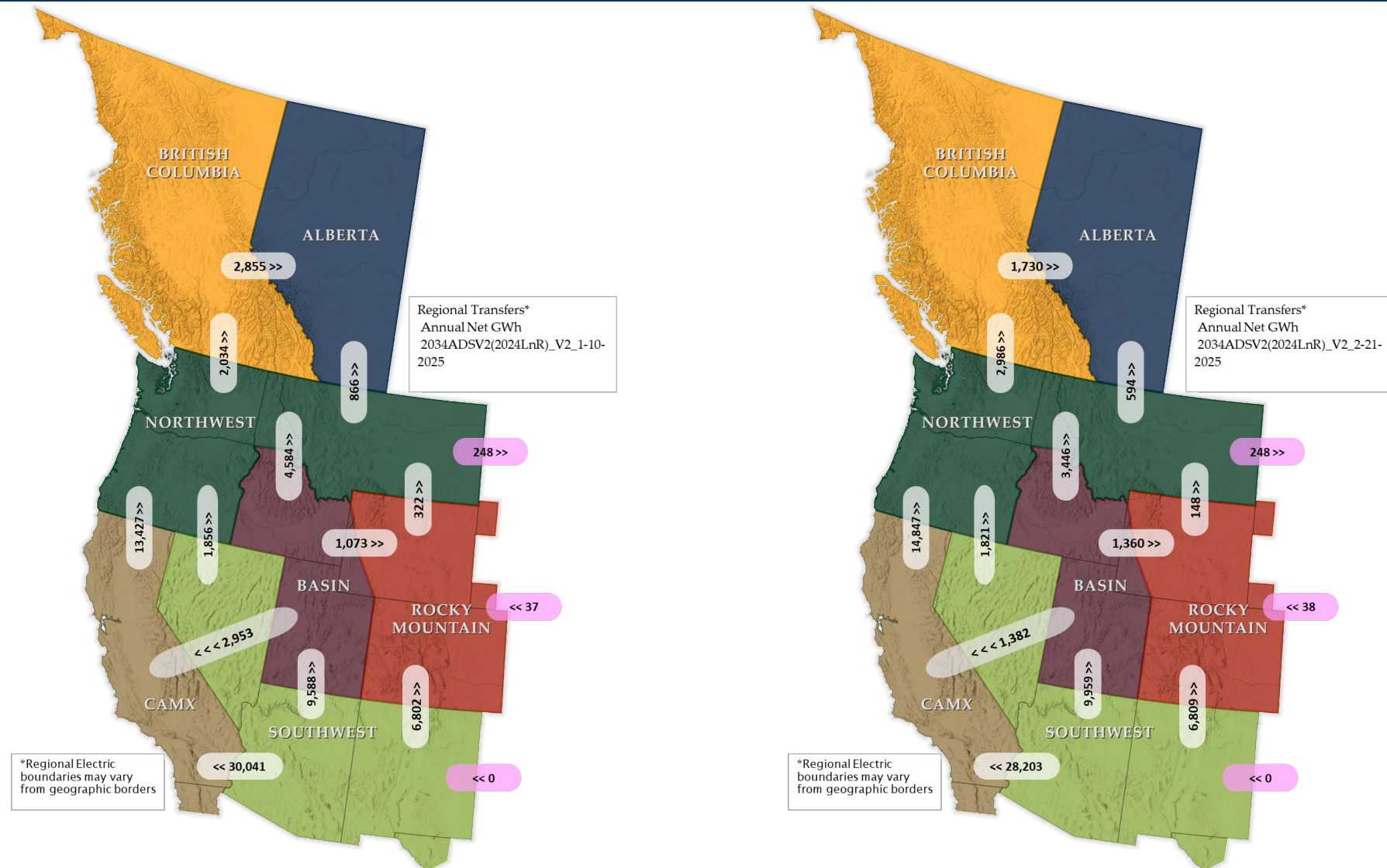
To do

- Continue with alignment

  - Some data submitters had extensions

  - 2028/30 check

  - Add Retired units into PCM

- Capacity Rule – PCM Max doesn't exceed PF (VAR Margin Ratio)

  - Check if more than 5% (mw change) change, need to review. Circle back with plant owners to check. Review list of units that seem out of sync.

- Redistribute unmapped units based on unaligned pf units (Update Placement Tool)

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Capacity Rule 8-3-2022

Rules to adjust modeled PCM max capacity (Account for station service in calc):

- If PF Pmax ~ L&R max then no change

- If L&R max <> PF Pmax review for issues

  - Resolve data issue

  - If CC and L&R > PF review for duct firing capability

- Else (Not data issues found)

  - If L&R max > PF Pmax cap, limit PCM generation with the use of "VAR Margin Ratio" command in GridView

    o Default = 1 a 5% derate of dispatch is 0.95

  - If L&R max < PF Pmax: Does not pose a PF issue leave as L&R max

    o Thermal L&R max (Max of summer and winter)

    o Wind/Solar etc. L&R max, check (Max of summer and winter) if similar. If exceptions (summer winter don't make sense or blank)- use nameplate

- Compare what is available and denote any change WECC makes

- What are the threshold is based on size:

  - Address issue if the difference greater than the lesser of 5% or 25 MW and can ignore difference less or equal to 1 MW

  - Denote how WECC resolve any issue

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Resource Placement Tool

- Updating Automated Resource Placement Tool
  - New/Existing units: Placing /rebalancing generation
    - Place generation where unmapped PF units are located according to subtype/areas
      - Aggregate to high bus/backbone if makes sense, Ex. Cholla
    - Not placing units on capacitor bank busses
    - Not placing units on 3-winding transformer midpoint busses
    - Review/exclude subsystem, Ex. Create list of viable locations

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Electric Reliability and Security for the West

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