

# **ADS Power Flow Task Force (APFTF)**

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*WECC*

**Electric Reliability  
& Security for the West**

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## APFTF—To Be Aware of

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- PCDS agenda item (December 3) and future item of discussion during additional (January 8) meeting
  - Core data for the ADS—PF or L&R
    - 2036 ADS V1—Use L&R data
    - 2036 ADS V2—Use decided-upon data

# APFTF Action Items

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- Generator placement
  - Review generator placement assumptions on the 2036HS1 topology
  - Review actual generator placement on the 2036HS1 topology
- Review 2025L&R vs 2034 ADS alignment spreadsheet
  - Review questions and alignment
- PF long ID
  - Review PF Long ID field format
    - EIA Plant Code\_EIA Unit Code\_Unit Number\_Name
      - Example 3886\_1\_1\_WELLS 10
  - Review proposed LID for each unit
- Documents will be posted to the APFTF team site

# Background—Generator Placement

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- L&R submittal—Generation
  - $\approx 6,000$  generators
    - $\approx 1,000$  are submitted without a bus number (location)
      - Where do we put them?

# Generator Placement Tool Methodology

- Proposed MW ranges per kV—general rule
  - Consider total transfer capability at bus level

Interconnection Voltage	Resource Capacity
230 kV	0 to 125 MW
345 kV	125 to 250 MW
500 kV	Greater 250 MW

# Generator Placement Tool Methodology

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- Methodology order for generators without locations:
  1. Latitude/longitude
  2. County/state/BA
  3. State and BA
  4. Remaining
- \* Bus names—Generators with a bus/substation name in the generator name
  - Ex., (Generic\_SolarA\_Bus\_23456\_230kV)

# Generator Placement Tool Methodology

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- Latitude/longitude—Generators without a location:
  - Closest bus that is 230 kV and above
    - Bus in submitted BA
      - If close, but perhaps far away
      - How far is too far?
    - Bus in different BA which is closer to lat./long. of the generator and point back to original BA
      - Ex., NorthWest—PACW/BPA

# Generator Placement Tool Methodology

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- County/state/BA
  - Use bus within the submitted county/state/BA
- State and BA
  - Use bus within the submitted state/BA



# Placing Single Large Units

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- Placing single large units (Ex., Single 2,000 mw unit):
  - Distribute to area?
  - Distribute to discrete busses?
  - Keep whole?

# Placement Tool by Development Status—To think about

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- Existing
  - Match. Exceptions include netted, aggregates, etc.
- Tier 1
  - Use placement tool
- Tier 2
  - Use placement tool
- Tier 3
  - Use placement tool or distribute by area by load bus?



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