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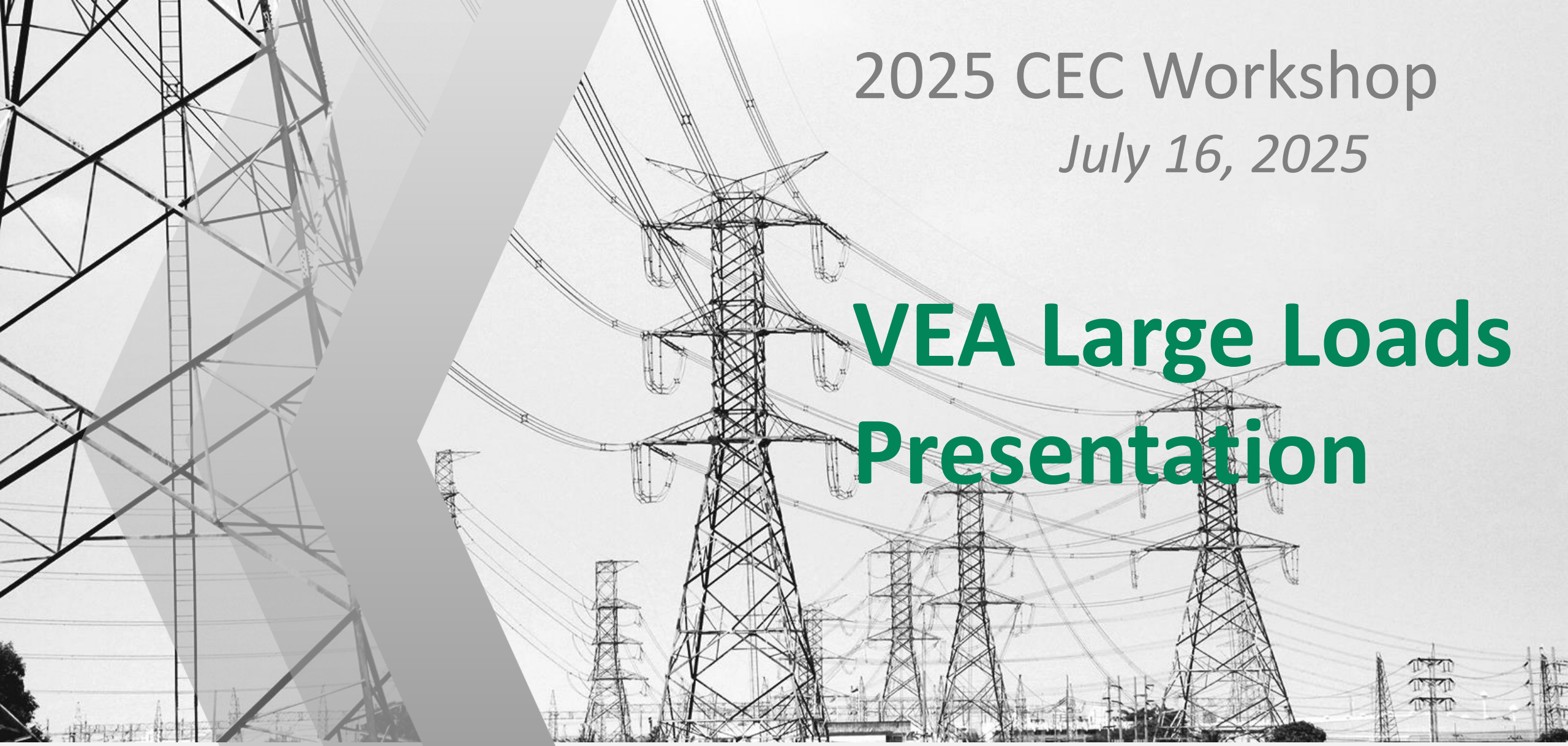

2025 CEC Workshop

July 16, 2025

VEA Large Loads Presentation

Valley Electric Association, Inc.

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Overview of VEA

- Valley Electric Association (VEA) is a non-profit distribution cooperative in Nevada that also owns and operates transmission assets. We are owned by the members we serve. VEA is governed by a Board of Directors elected by the members.
  - 7 districts
  - 21,881 members
  - 6,800 square miles of service territory
  - 150 employees
- VEA and GridLiance West (GLW) are Participating Transmission Owners with the CAISO.
- VEA is also registered as a Transmission Operator (230 kV & 138 kV), Transmission Owner (138 kV), Transmission Planner (230 kV & 138 kV), and Distribution Provider.

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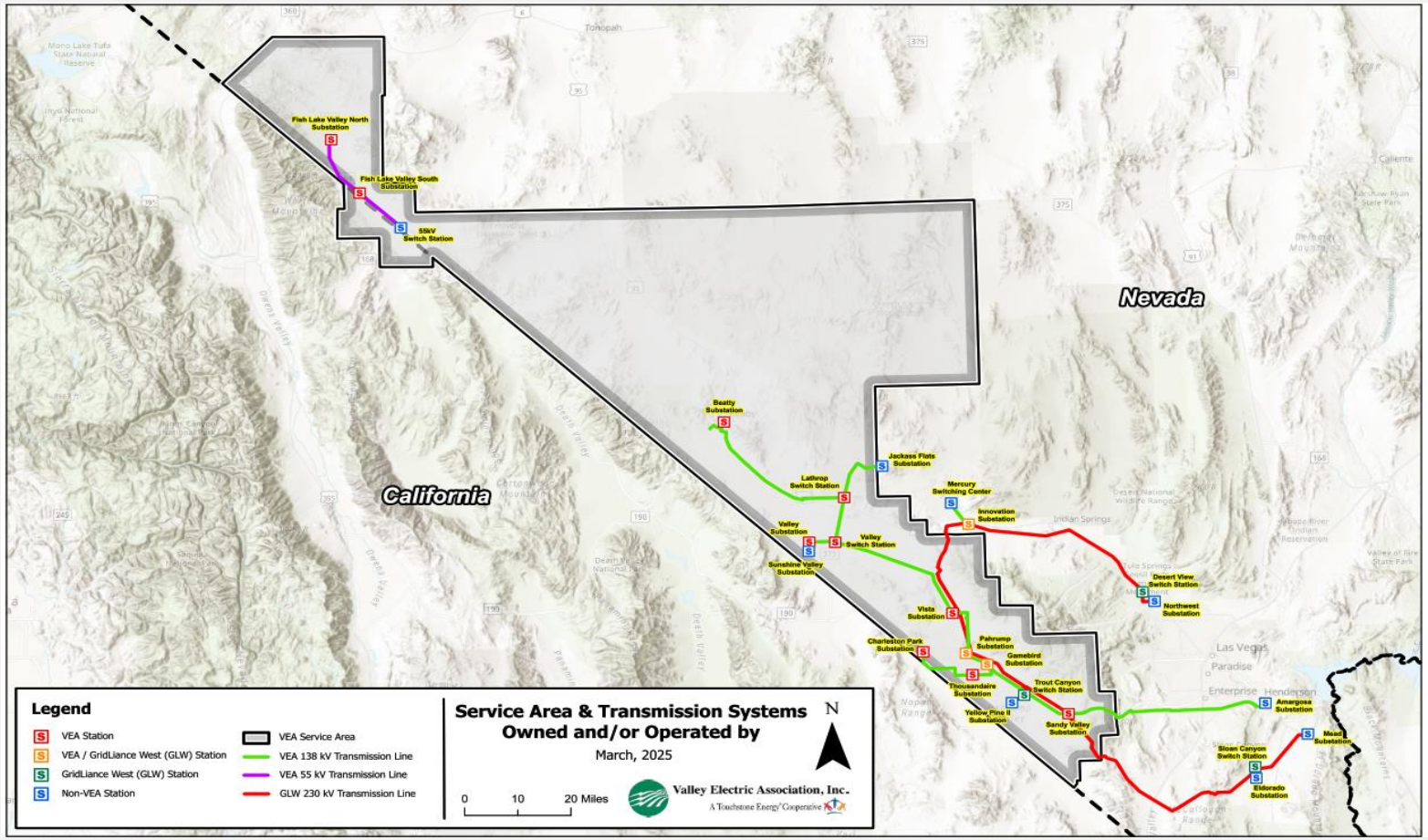
VEA Service Area and Existing Transmission



- VEA/GLW area includes interconnections with the following entities:
  - Nevada Energy (NVE)
  - Western Area Power Administration – Lower Colorado (WALC)
  - Southern California Edison (SCE)
  - Nevada National Security Site (NNSS)

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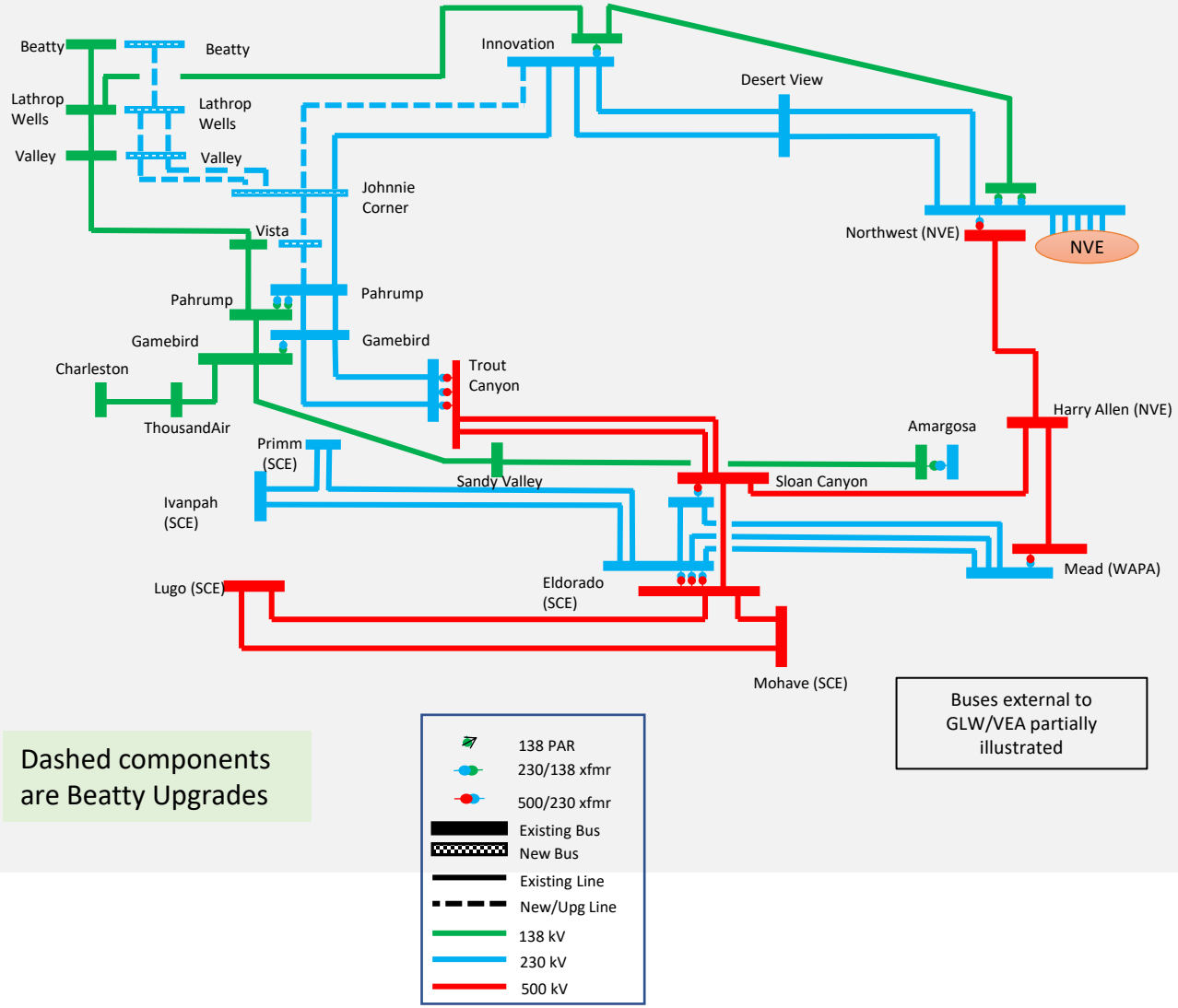
Future Transmission in VEA/GLW Area (2027 ISD)



- CAISO approved GLW transmission upgrades in their 2021-2022 and 2022-2023 Transmission Planning Process to support the CA Energy Market by exporting future Renewables from the VEA/GLW area.
  - New 500kV to Trout Canyon, double 230kV loop and extend 230kV to Beatty.
  - Supports 7.8 GW of generation in CAISO queue up to and including Cluster 15 (amount at Point of Interconnection).
- Transmission upgrades also support large loads such as Data Centers and mines.

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VEA Data Center Applications

- Two proposed Data Center projects connecting to GLW's 230kV Gamebird substation.
- Osprey Data Center - total project peak load of 1,600 MW and ISD 2027-2028 post-GLW Core Upgrades.
  - Forecasted ramp rate of 400 MW/year for 4 years after initial ISD.
- Additional Data Center Request - total project peak load of 1,000 MW and ISD 2027-2028 post-GLW Core Upgrades.
  - Forecasted ramp of 250 MW/year for 4 years after initial ISD.
- VEA/GLW follow the CAISO Transmission Planning Process (TPP) when planning for Data Center loads.

Data Center Forecast Methodology

- Methodology for new Data Centers is the same for all large loads.
  - VEA's process is to utilize Customer applications for service. Then, follows the CAISO Interconnection Process for loads impacting the Transmission System under the CAISO's Operational control.
    - VEA's distribution system is 24.5 kV with insufficient capacity for typical Data Center loads.
  - Status of both Data Center loads - in the System Impact Study phase of interconnection. VEA will submit to the CAISO for its concurrence. Then, the project moves forward to design, procurement and operation.
- Data Center long term growth
  - VEA did not forecast or anticipate current Data Center load requests.
  - For Data Center applicant loads, we utilize Customer provide ramp rates and VEA has performance metrics to provide incentives for realistic ramp rates.
  - VEA has considered running scenario analysis to accommodate current and future Data Center loads but has not to date.
- No VEA assignment to specific locations
  - Locations of Data Centers are requested by the Customer. Changes in POI would follow the CAISO's process or similar.

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Draft Forecast of VEA's Other Large Loads

Load Category Type	Expected In-Service Date	Capacity Requested (MW)
Gen SL&P	Jan-25	3.7
Mine	Jun-26	12
Residential	Feb-26	15.25
Gen SL&P	Sep-26	12.3
Data Center	Feb-27	400
Data Center	Feb-27	250
Gen SL&P	Aug-27	35.2
Residential	Feb-28	15.25
Data Center	Jun-28	400
Data Center	Jun-28	250
Gen SL&P	Oct-28	46.9
Residential	Feb-29	15.25
Mine	Apr-29	100
Data Center	Jun-29	400
Data Center	Jun-29	250
Data Center	Jun-30	400
Data Center	Jun-30	250
Residential	Mar-31	20
Residential	Mar-32	20
Residential	Mar-35	20
Residential	Mar-36	20

- Generation Station Load and Power
  - Retail load served of distribution or transmission.
  - Extrapolated from historical SLP and active generators in CAISO's queue.
- Mines
  - Two projects – 12 MW and 100 MW mines in VEA's Beatty area.
- Large Residential
  - Three projects with applications.
  - Four future projects expected based upon land availability and historical trends.
  - Incremental to annual new housing loads.

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Specific Recommendations for CEC

- Historically, the CEC has been very responsive to VEA's unique economic load drivers.
- VEA looks forward to continuing and strengthening this relationship while we all adjust to new large load requests such as Data Centers.
- VEA offers its support to the CEC in developing new tools, processes or data to incorporate new loads in the CEC and CAISO TPP processes.
- GridLiance West recently joined the DOE GRIP Grant Charge to AI consortium along with the CEC, PG&E, SCE and CAISO etc.

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Questions and Contacts

Any Questions?

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