



FEBRUARY 4, 2025

Golden Valley Electric Association Energy Outlook

HOUSE ENERGY SPECIAL COMMITTEE

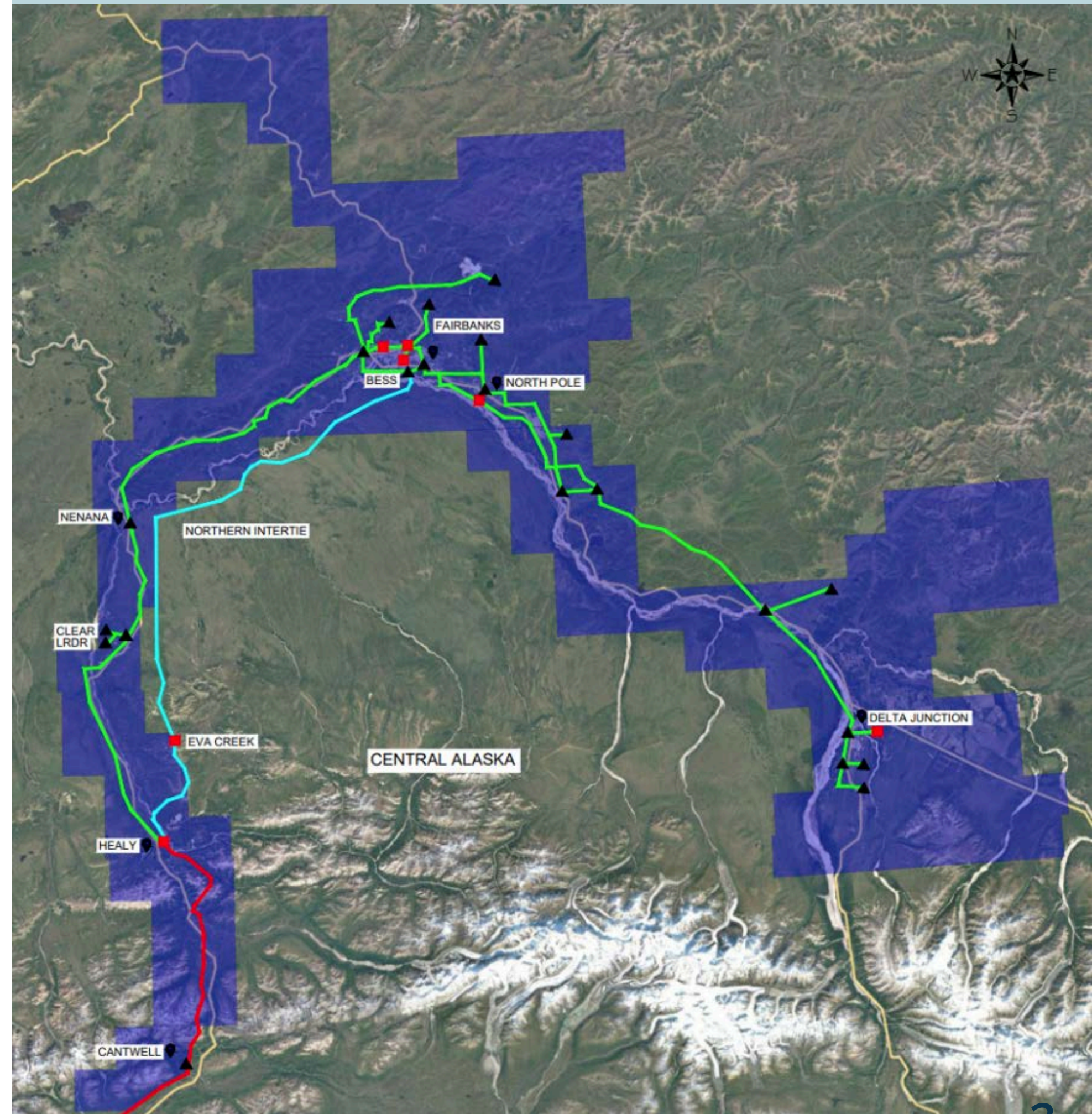
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GVEA Snapshot

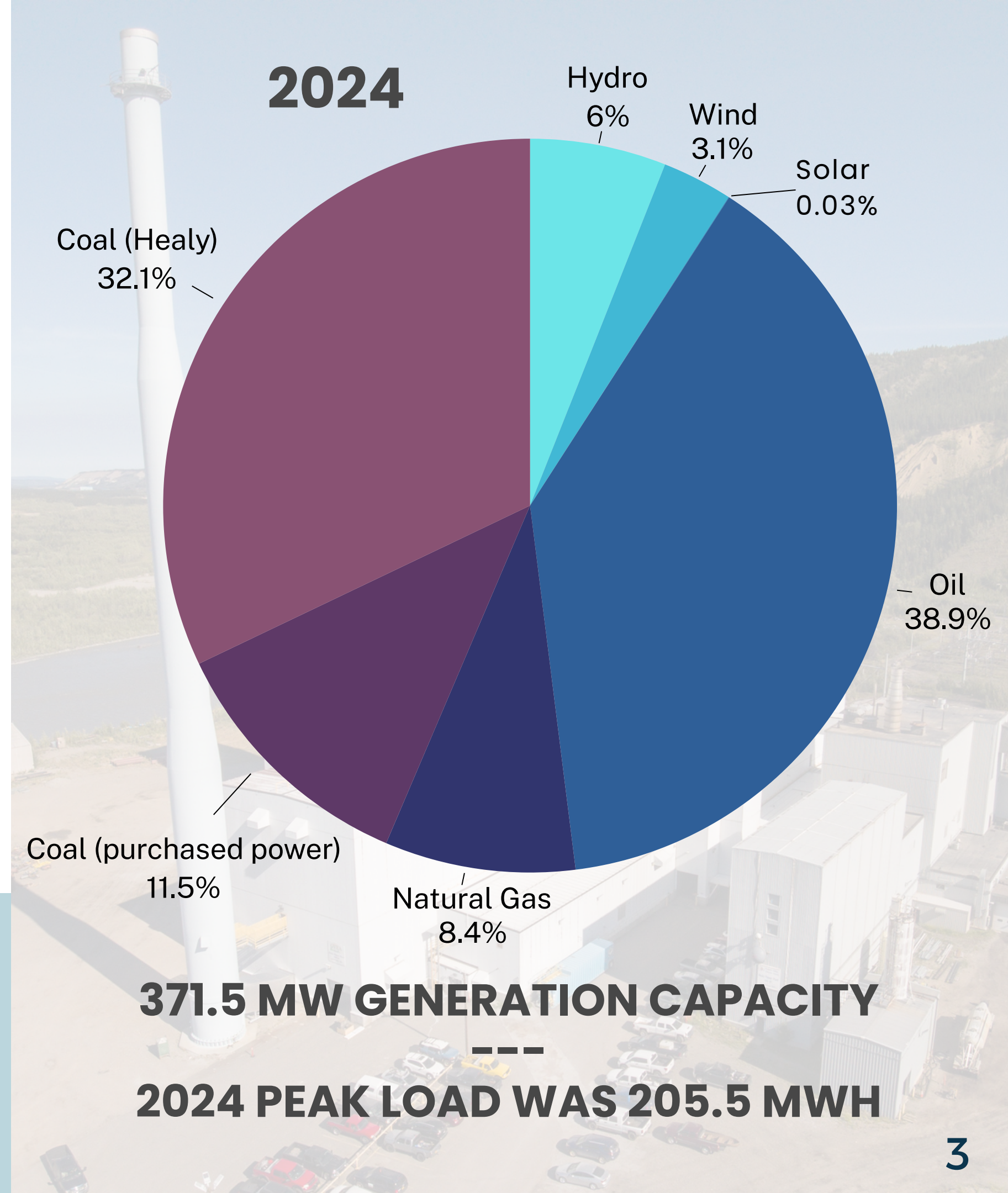
- Over 36,000 members
- Serving over 100,000 residents
- Nearly 3,500 miles of power lines
- Peak load: 205 MW
- Nine generation facilities





GVEA's Energy Portfolio 2024

- **Four oil fired plants - 243 MW**
 - Zehnder Power Plant
 - Delta Power Plant
 - North Pole Power Plant
 - North Pole Expansion Power Plant
 - **Two coal fired plants - 88 MW**
 - Healy Unit 1
 - Healy Unit 2
 - **Hydroelectric - 15 MW**
 - Bradley Lake
 - **Eva Creek Wind - 25 MW**
 - **Solar - 562 kW**
- **Intertie Purchases - 20 MW**
 - via ENSTAR Contract
 - **Local Coal Purchases - ~30 MW**
 - via Aurora Energy and University of Alaska Fairbanks Contracts





Challenges

Cost:

- Volatile energy costs

Natural Gas:

- Economy Energy not available
- End of ENSTAR contract

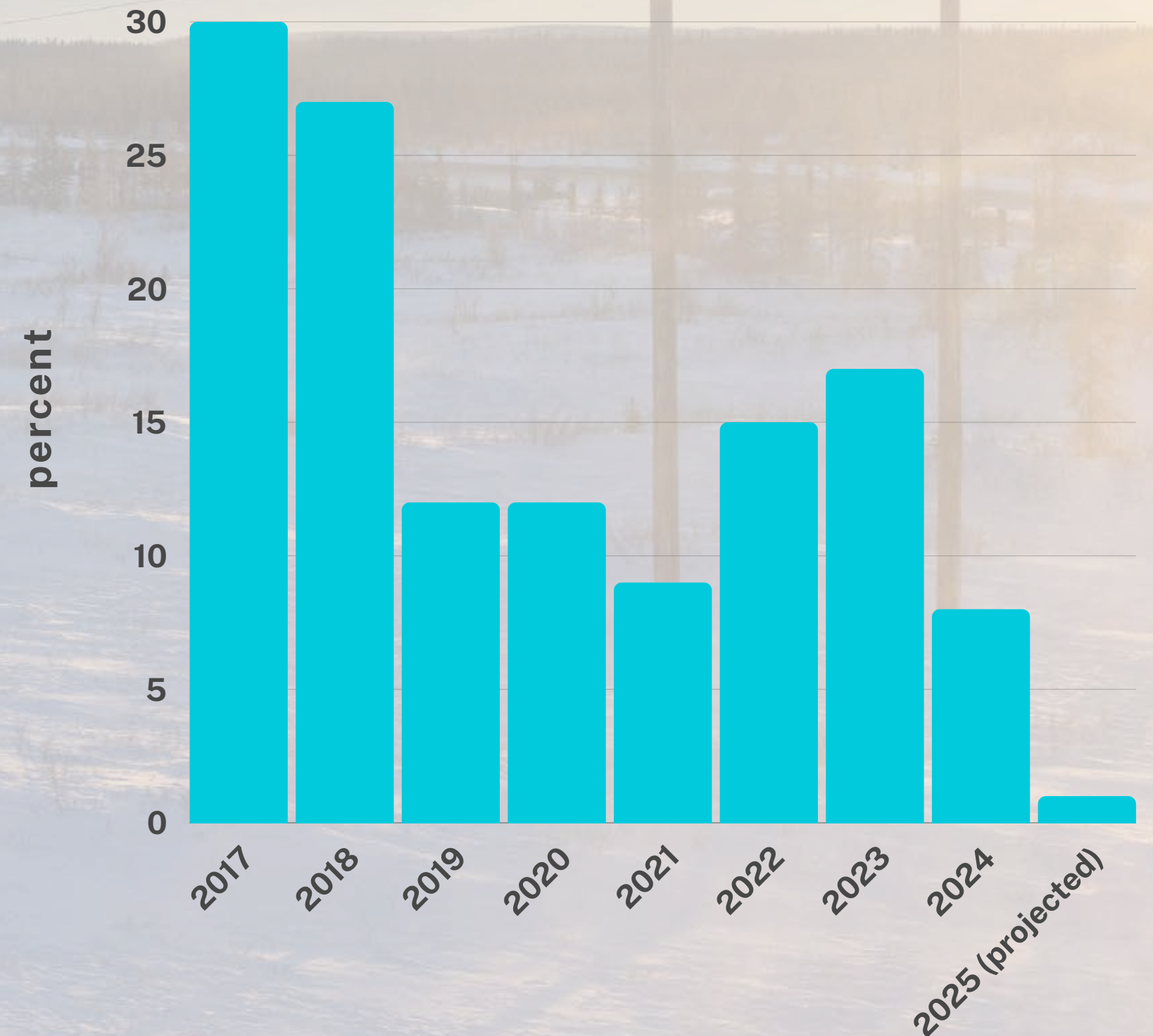
Bradley Lake:

- Temporary loss of Hydro (1st qtr)

System Constraints:

- Ability to integrate variable energy limited
- Transmission Capacity
- Aging Infrastructure

Role of Natural Gas in GVEA's Power Supply Mix





Legislative Priorities

Railbelt Transmission

GVEA requests state support in matching federal GRIP funds for Phase 1 upgrades to the Railbelt electric transmission grid.

- Capacity to transmit power between Railbelt service areas is currently limited.
- Allows the cheapest power to reach end-users irrespective of location or energy source.
- Provides opportunity to increase interregional capacity between Homer and Anchorage, and add redundancy and energy storage.
- Facilitates clean energy projects at scale for energy security and diversification.

GVEA supports state funding for upgrades to the Railbelt electric transmission grid between Anchorage and Healy.





Legislative Priorities

Natural Gas Solution

GVEA supports measures to ensure short-term certainty for importing LNG to Cook Inlet and supports state efforts to assess the feasibility of a gasline connecting the North Slope with the Railbelt, provided a spur to Fairbanks is included.

- GVEA expects to receive <1% of its power from natural gas sources in 2025.
- The Railbelt is facing a shortfall in Cook Inlet natural gas as soon as 2027.
- GVEA is working collaboratively with other Railbelt utilities to explore gas supply alternatives that could provide system-wide benefits to Railbelt residents and businesses.
- Currently, importing LNG to Cook Inlet is the most feasible means to meet gas demand requirements in the short term.



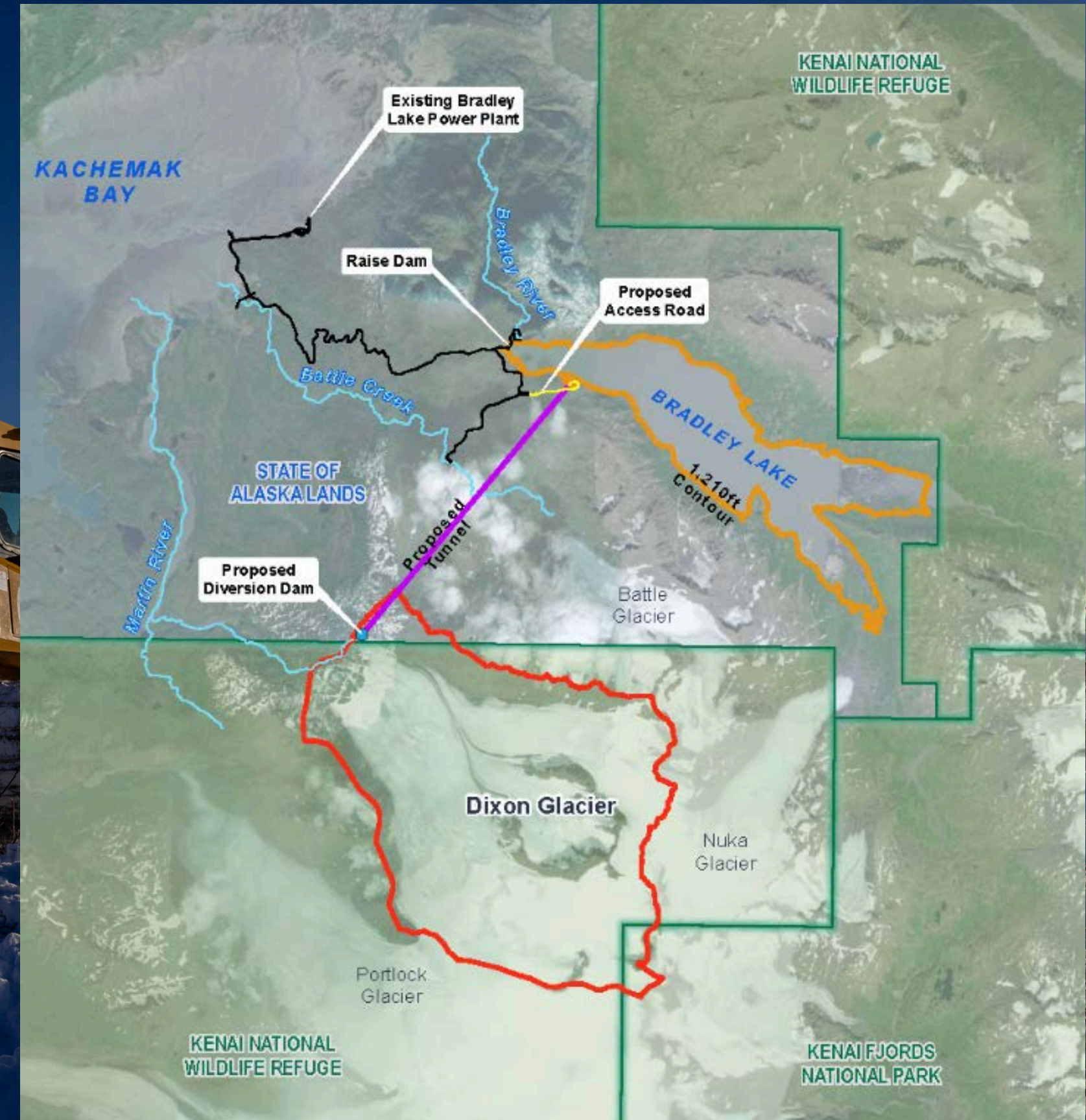


Legislative Priorities

Dixon Diversion Support

GVEA supports AEA's Dixon Diversion Project to optimize the energy potential of the AEA-owned Bradley Lake Hydroelectric Project.

- Hydropower is the Railbelt's lowest-cost generation.
- Project will increase Bradley Lake's annual energy production by 50%, enough to power an estimated 24,000 – 30,000 homes.
- Estimated to offset 1.5 billion cubic feet of natural gas per year in Railbelt power generation.
- Estimated completion is 2030.





Questions?

