

ALASKA ENERGY AUTHORITY

ELECTRIC VEHICLE PROGRAM UPDATE

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2021 Electrify Alaska! Conference
Electric Vehicles and Storage Panel
October 27, 2021



About the Alaska Energy Authority



Our Mission

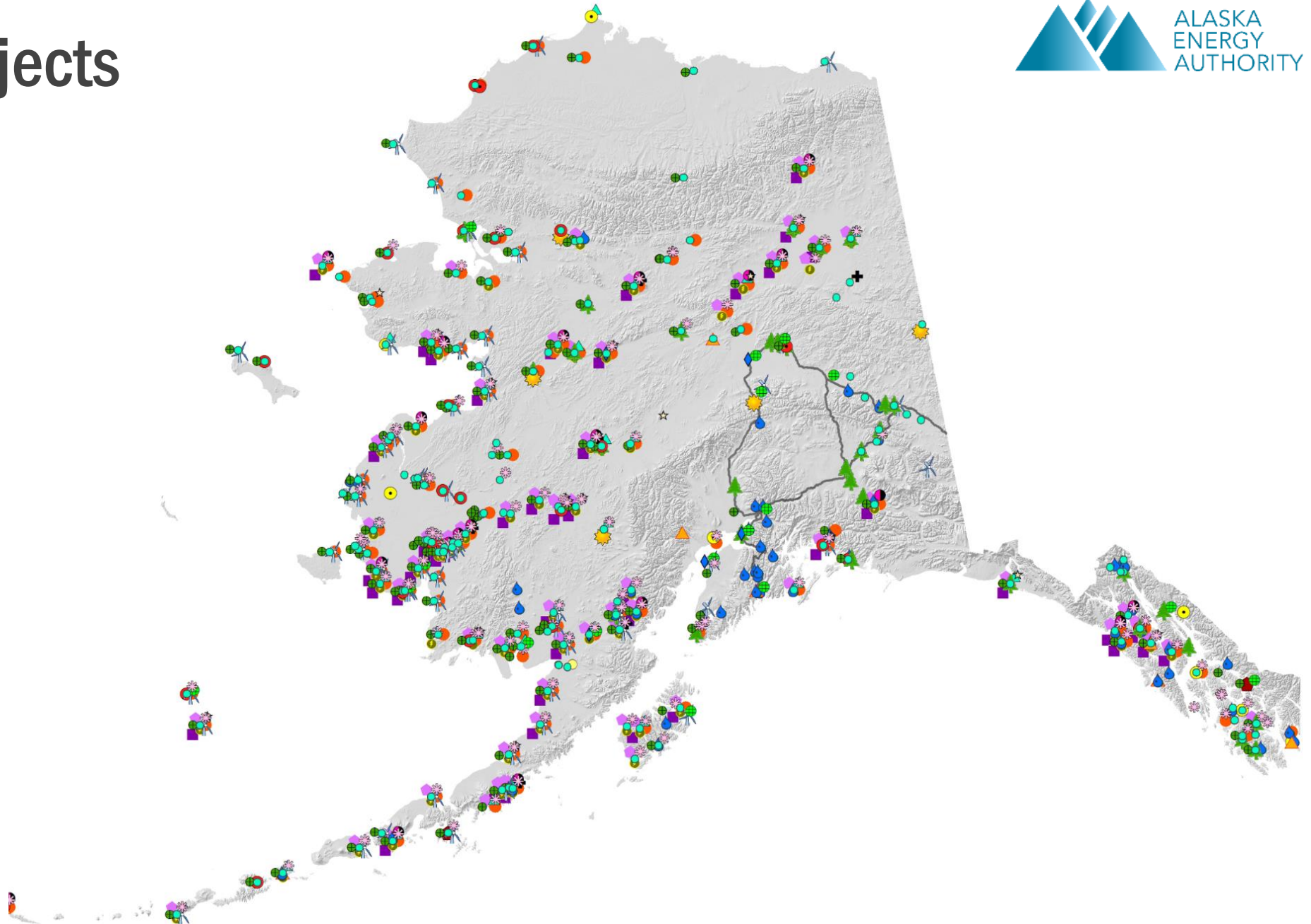
Reduce the cost of
energy in Alaska.



Created in 1976 by the Alaska Legislature, the Alaska Energy Authority (AEA) is a public corporation of the State of Alaska governed by a board of directors with the mission to “reduce the cost of energy in Alaska.” AEA is the state's energy office and lead agency for statewide energy policy and program development.

AEA Active Projects and Services

-  Biomass/Biofuels
-  Bulk Fuel Upgrades
-  Circuit Rider Assistance
-  Diesel Emission Reduction Act
-  Electrical Emergency Response
-  Emerging Energy Technology Fund
-  Heat Pump
-  Heat Recovery
-  Hydroelectric
-  Maintenance and Improvement
-  Ocean/River
-  PCE Community
-  PCE Utility Clerk Training
-  Rural Power System Upgrade
-  Solar
-  Storage
-  Transmission
-  Utility Operator Training
-  Utility Technical Assistance
-  VEEP (Efficiency)
-  Wind



AEA Electric Vehicle (EV) Mission Statement

**Lead the effort to
minimize barriers
that inhibit EV
adoption in Alaska.**



Dimond Center EV Car Show and Ride & Drive, Anchorage, AK

EV Program Overview



Capital Transit Battery-Electric Bus, Juneau, AK



- Working Group
- Technical Sessions
- EV Car Show / Ride and Drive
- School bus in Tok
- Transit bus in Juneau
- MOA box truck
- Installation of L2 and DCFC

Electric School Bus, Tok, AK



Barriers to EV Adoption in Alaska

- Lack of charging infrastructure
- Range anxiety
- High demand charges
- Cold climate performance
- Market availability of electric AWD, SUVs, and trucks

Dimond Center EV Car Show and Ride & Drive, Anchorage, AK

DEVELOP EV CHARGING INFRASTRUCTURE

DC Fast Charger

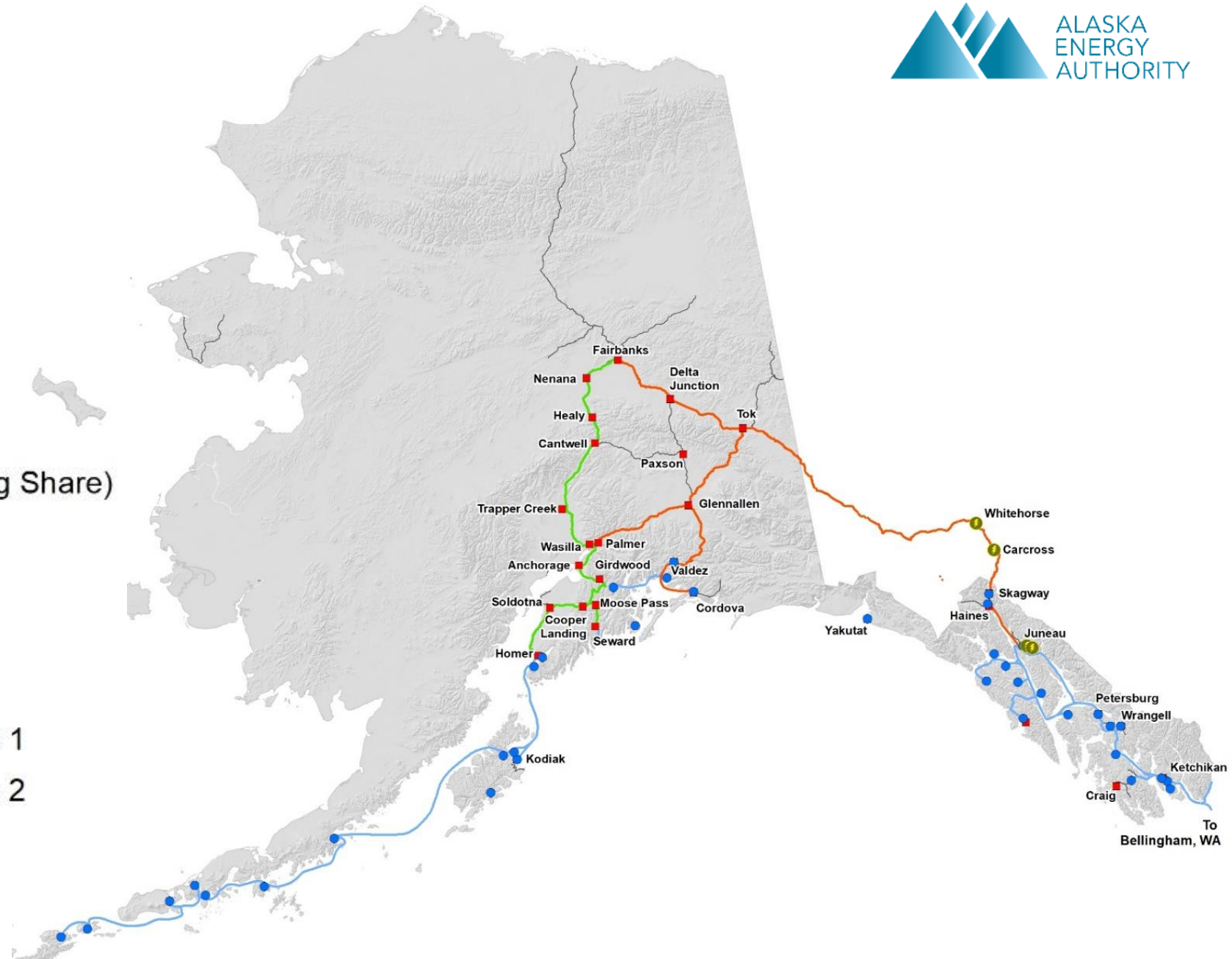
Statewide DC fast-charging network along highway system to facilitate long-range driving and reduce range anxiety

Level 2

Community-based Level 2 charging to provide charging at destinations within typical day-to-day driving range

EV Fast-Charging Corridor

-  Existing DC Fast Charger (via Plug Share)
-  Community
-  Ferry Terminal
-  Marine Highway
-  Highway
-  DC Fast Charging Corridor Phase 1
-  DC Fast Charging Corridor Phase 2



DC Fast-Charging Network: Phase 1



CONNECT HOMER AND SEWARD TO FAIRBANKS

9 sites selected

**15 DCFC and 8 Level 2
chargers**

TOTAL INVESTMENT OF \$1.52 MILLION

VW: \$875,000

SEP: \$90,000

Private: \$555,000

ANTICIPATED COMPLETION

Summer 2022

Planned EV Fast-Charging Locations

- **Homer** – AJ's Old Town Steakhouse & Tavern
- **Soldotna** – Custom Seafood
- **Cooper Landing** – Grizzly Ridge
- **Seward** – Seward Chamber of Commerce
- **Anchorage** – Dimond Center
- **Chugiak** – Three Bears Alaska
- **Trapper Creek** – Three Bears Alaska
- **Cantwell** – Jack River Inn
- **Healy** – Three Bears Alaska





EV Fast Charger, Jack River Inn, Cantwell, AK

Vendor Options

- FreeWire Technologies –
Homer, Soldotna, Cooper
Landing
 - Battery Powered
- Flo
- ChargePoint
- Siemens

- Two sites completed in Anchorage 2021
 - Linny Pacillo Parking Garage
 - Snowden Administration Building
- Two more sites planned for 2022
 - AEA office parking lot
 - To be determined
- State and Federal SEP funds



EV Level 2 Charger, Snowden Building, Anchorage, AK

➤ Level 2 Chargers At State Facilities



EV Level 2 Charger, Linny Pacillo Parking Garage, Anchorage, AK



Next Steps

- \$375,000 VW Trust Funds Remaining for EVSE
 - Continue development of fast-charging network
 - Community-based Level 2 charging
- RFAs for VW grants: between late-fall 2021 and winter 2022
- Identify sites and pursue other funding sources



Start Planning Now

- Utilities, state and local governments
- Public/private partnerships
- Select transportation corridors
- Pick out potential sites
- Identify State and Federal funding opportunities
- Identification of underserved communities



AEA provides
energy solutions
to meet the
unique needs and
opportunities of
Alaska's rural
and urban
communities.

Alaska Energy Authority

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