

ALASKA ENERGY AUTHORITY

ELECTRIC VEHICLE PROGRAM UPDATE

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Alaska Electric Vehicle Working Group
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AEA 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
- EV Infrastructure
 - School bus in Tok
 - Transit bus in Juneau
 - MOA box truck
 - Installation of L2 and DCFC

Alaska's First 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

Existing and Planned EV Fast-Charging Locations

- **Glenn Highway**
 - Chugiak – 94 miles from Trapper Creek
- **Parks Highway**
 - Trapper Creek – 95 mi from Cantwell
 - Cantwell – 38 miles from Healy
 - Healy – 110 miles from Fairbanks
- **Seward Highway**
 - Seward – 46 miles from Cooper Landing
- **Sterling Highway**
 - Homer – 76 miles from Soldotna
 - Soldotna – 46 miles from Cooper Landing
 - Cooper Landing – 95 miles from Anchorage
- **Seward Highway**
 - Anchorage – 27 miles from Chugiak

(50-12 kW CSS and CHAdeMo)



- Two sites completed in Anchorage 2021
 - Linny Pacillo Parking Garage
 - Snowden Administration Building
- Additional sites planned
 - 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

EV Charging and Fueling Infrastructure Program - \$2.5 Billion

50% Alternative Fuel Corridors

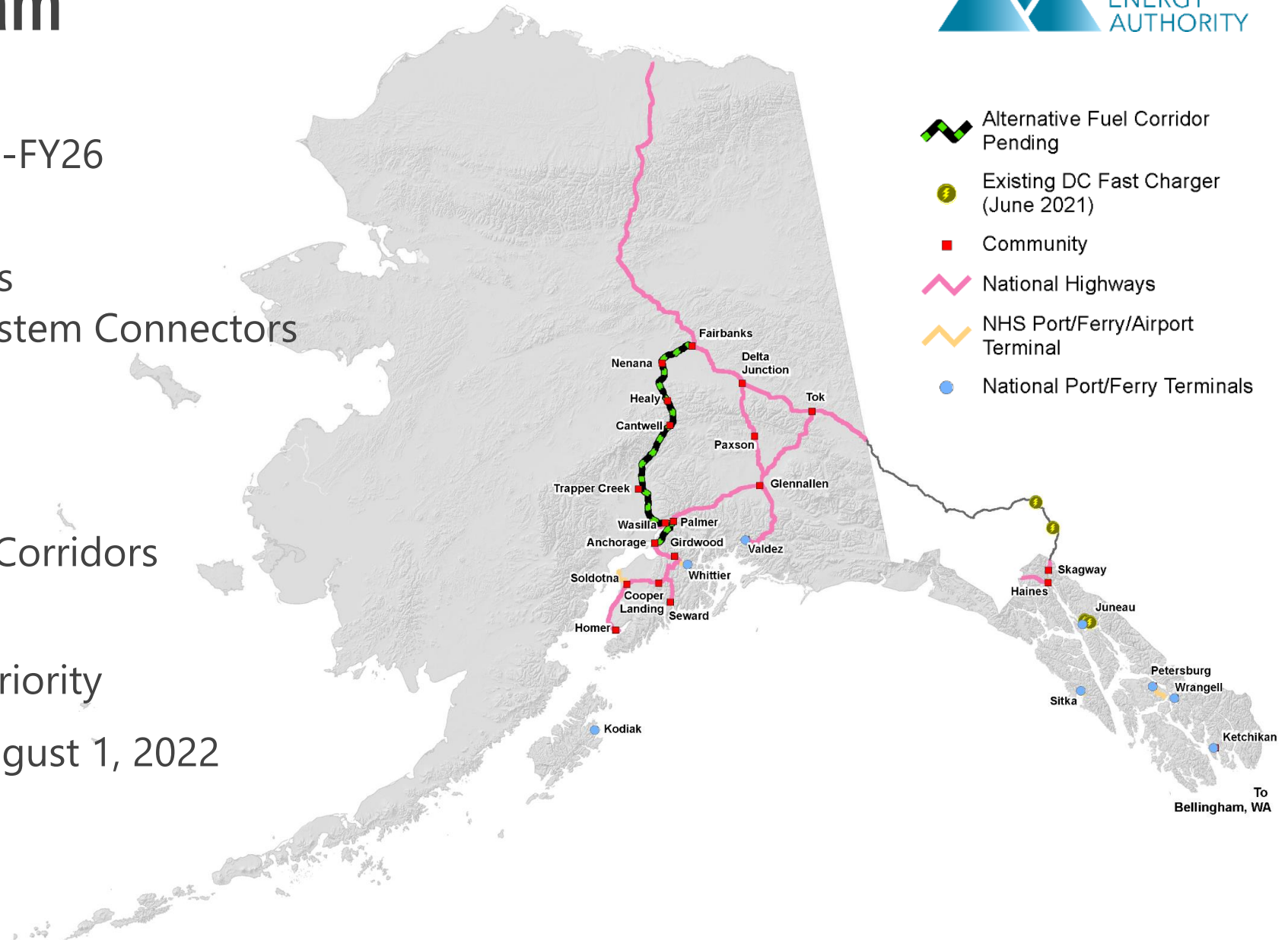
- State, local, tribal governments, port authorities, metropolitan planning organizations
- Partnerships with private entities
- Procurement, installation, 5 years O&M
- 80% federal share
- 20% match from applicant or private entity

50% Community Grant Program

- Publicly accessible Priority for rural areas, underserved communities, areas with limited access to infrastructure
- Procurement, installation, 5 years O&M
Also preconstruction, planning, feasibility, public education
- \$15 million cap per project
- 80% federal share
- 20% match from private entity

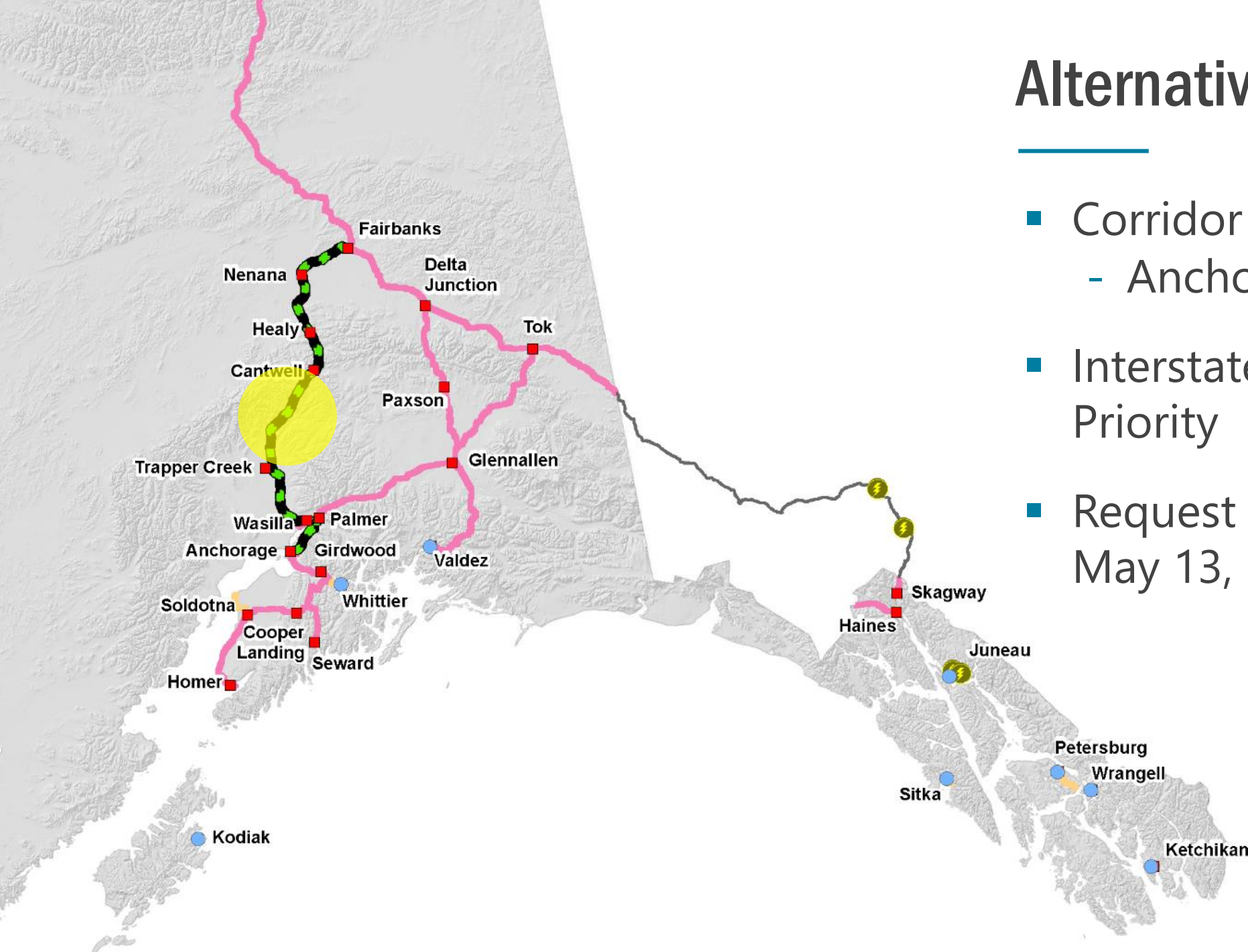
NEVI Formula Program

- >\$50 Million for Alaska FY22-FY26
 - \$7.8 million in FY22
- EV Fast-charging Installations
 - 4 Combined Charging System Connectors
 - >150 kW each
 - < 50 miles apart
 - Within 1 mile of highway
- Designated Alternative Fuel Corridors
 - Until fully built out
- Interstate Highway System Priority
- Implementation Plan due August 1, 2022
- Federal Share – 80%
- Private entity or other – 20%



Alternative Fuel Corridors

- Corridor Pending
 - Anchorage to Fairbanks
- Interstate Highway System Priority
- Request for nominations by May 13, 2022



NEVI Formula Program Timeline



AEA EV Program Planning Activities

- Submitted comments to the FHWA RFI (1/28/2022)
- Interagency coordination (DOT&PF)
- MOA with DMV for data sharing
 - ~1,200 EV across state
- Gather baseline data (registered EVs, existing and planned EVSE)
- Stakeholder outreach (utilities, municipalities, other interested parties)
- RFP for EV contractor
- Release RFI for site locations (4/2022)
- Continue interagency coordination, stakeholder outreach, data compilation
- NEVI Implementation Plan



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

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