

ALASKA ENERGY AUTHORITY

ALASKA'S ELECTRIC VEHICLES PROGRAM

Josi Hartley
Alaska Energy Authority

September 13, 2023



Who We Are



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 EV Mission Statement

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

Volkswagen Settlement Funds: Fast Charging Sites

Sites Open Now

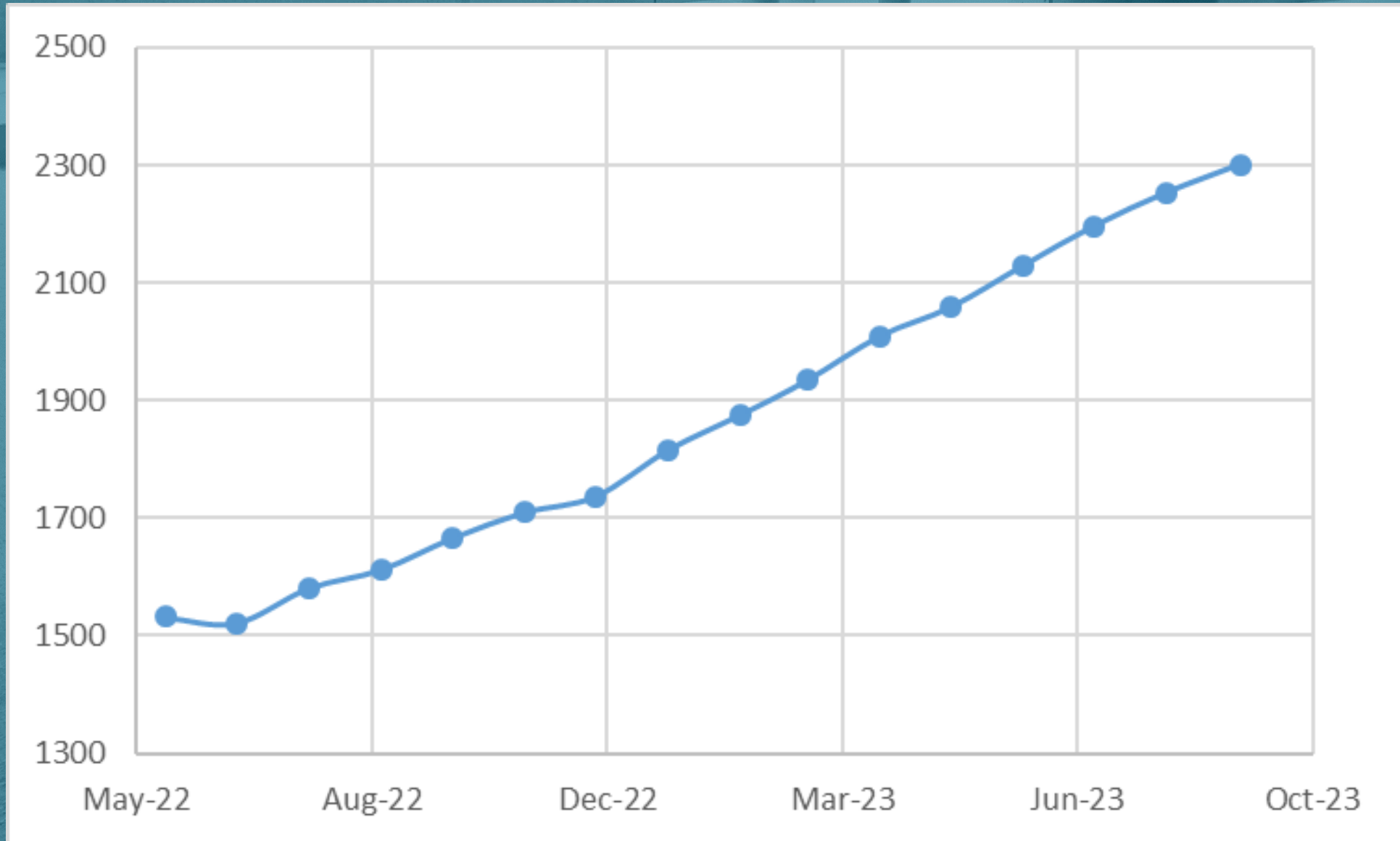
- **Anchorage** - Dimond Center
- **Homer** - AJ's Old Town Steakhouse & Tavern
- **Seward** - Seward Chamber of Commerce
- **Soldotna** - Custom Seafoods
- **Cantwell** - Jack River Inn
- **Healy** - Three Bears Alaska
- **Trapper Creek** - Three Bears Alaska
- **Chugiak** - Three Bears Alaska

Sites Under Construction

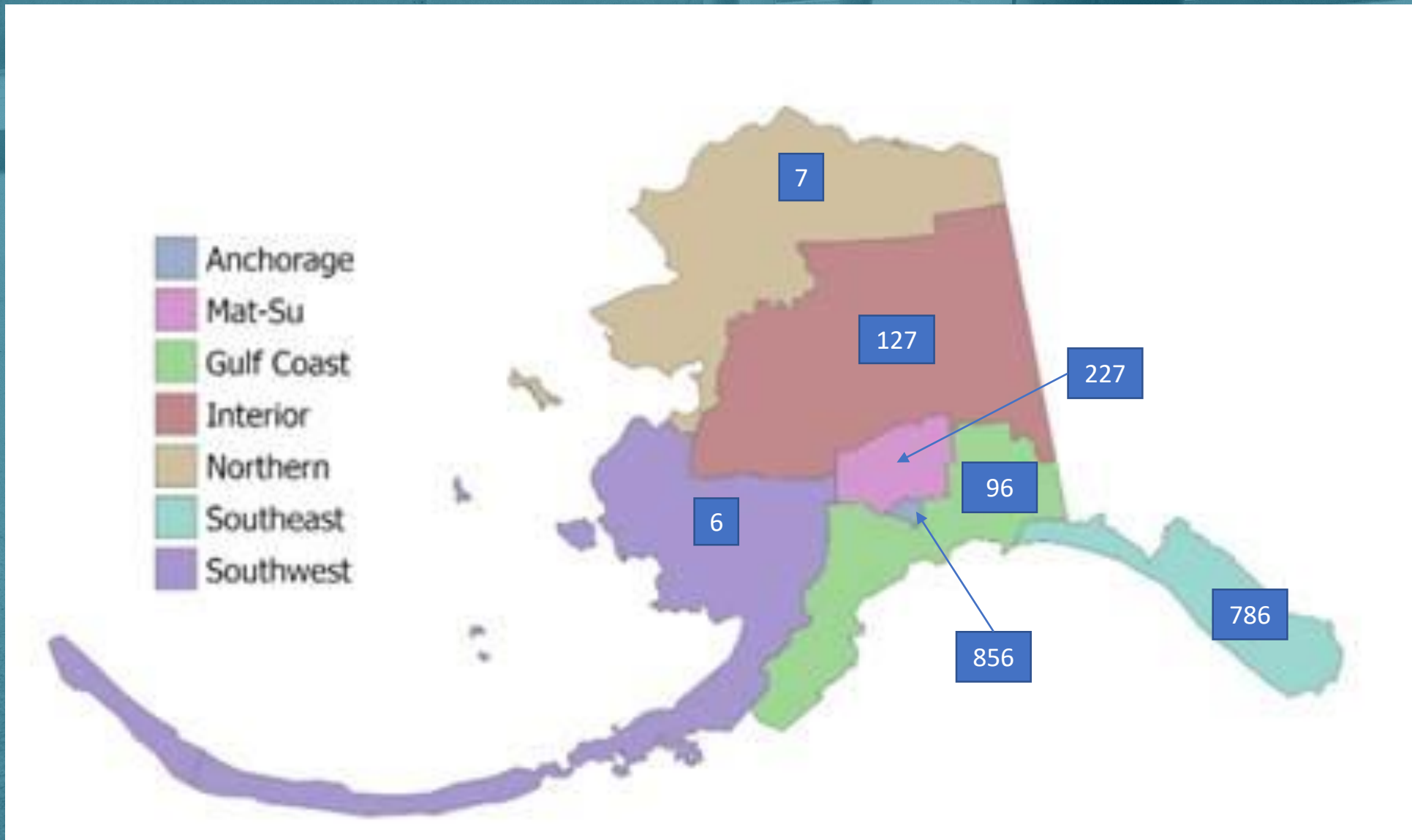
- **Cooper Landing** - Grizzly Ridge



EV Registrations: Alaska DMV Data



EV Geographic Distribution



National Electric Vehicle Infrastructure (NEVI) Program

The National Electric Vehicle Infrastructure (NEVI) Formula Program is a \$5 billion program established by the Bipartisan Infrastructure Law (BIL) to build a national network of 500,000 electric vehicle (EV) charging stations by 2030 along federally designated Alternative Fuel Corridors (AFCs).



Create an interconnected network



New FHWA Federal Aid program apportioned to state DOT's



Designated Alternative Fuel Corridors (AFC's)



Annual Implementation Plan Required



Alaska NEVI Plan

AEA and the Alaska Department of Transportation & Public Facilities (DOT&PF), submitted their **State of Alaska EV Infrastructure Implementation Plan (The Plan)** to the United States Joint Office of Energy and Transportation, as required by the Infrastructure Investment and Jobs Act's (IIJA) NEVI Formula Program.

- On July 31, 2023 AEA and DOT&PF **Submitted the FY24 Plan.**
- Over the **next five years**, Alaska will receive **\$52 million.**



State of Alaska Electric Vehicle Infrastructure Implementation Plan



Community Engagement Outcomes Report

From July 2022 to June 2023 by the numbers

409

Attendees

13

Meetings

84

Communities*

9,300

Emails Sent

67

Survey Responses

167

Working Group

4

95

Technical Sessions

4

69

Workshops

4

78

AML Presentation

1

50

In Alaska

33

In Lower 48

1

International

54%

Open Rate

17%

Click Rate

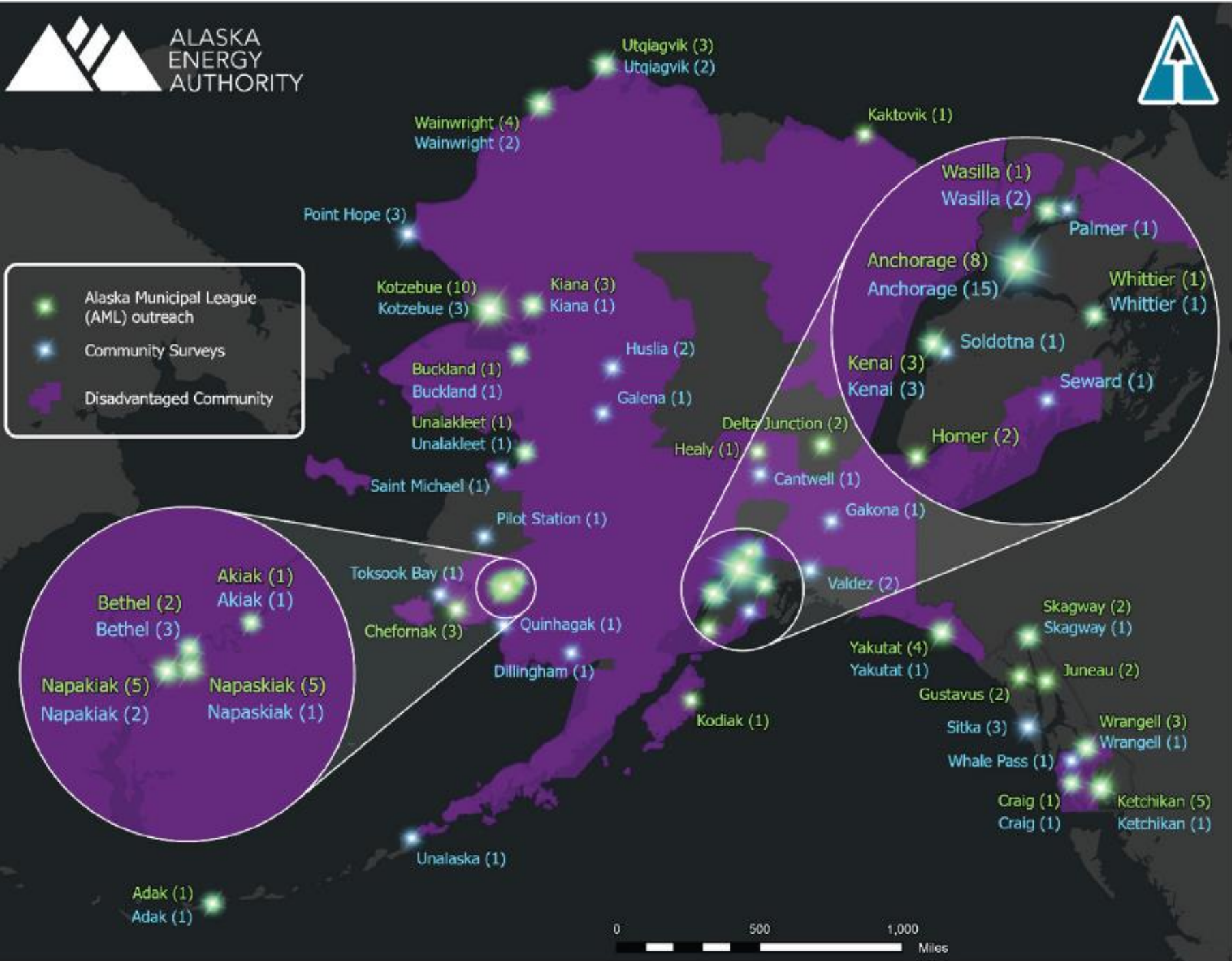
37

Communities



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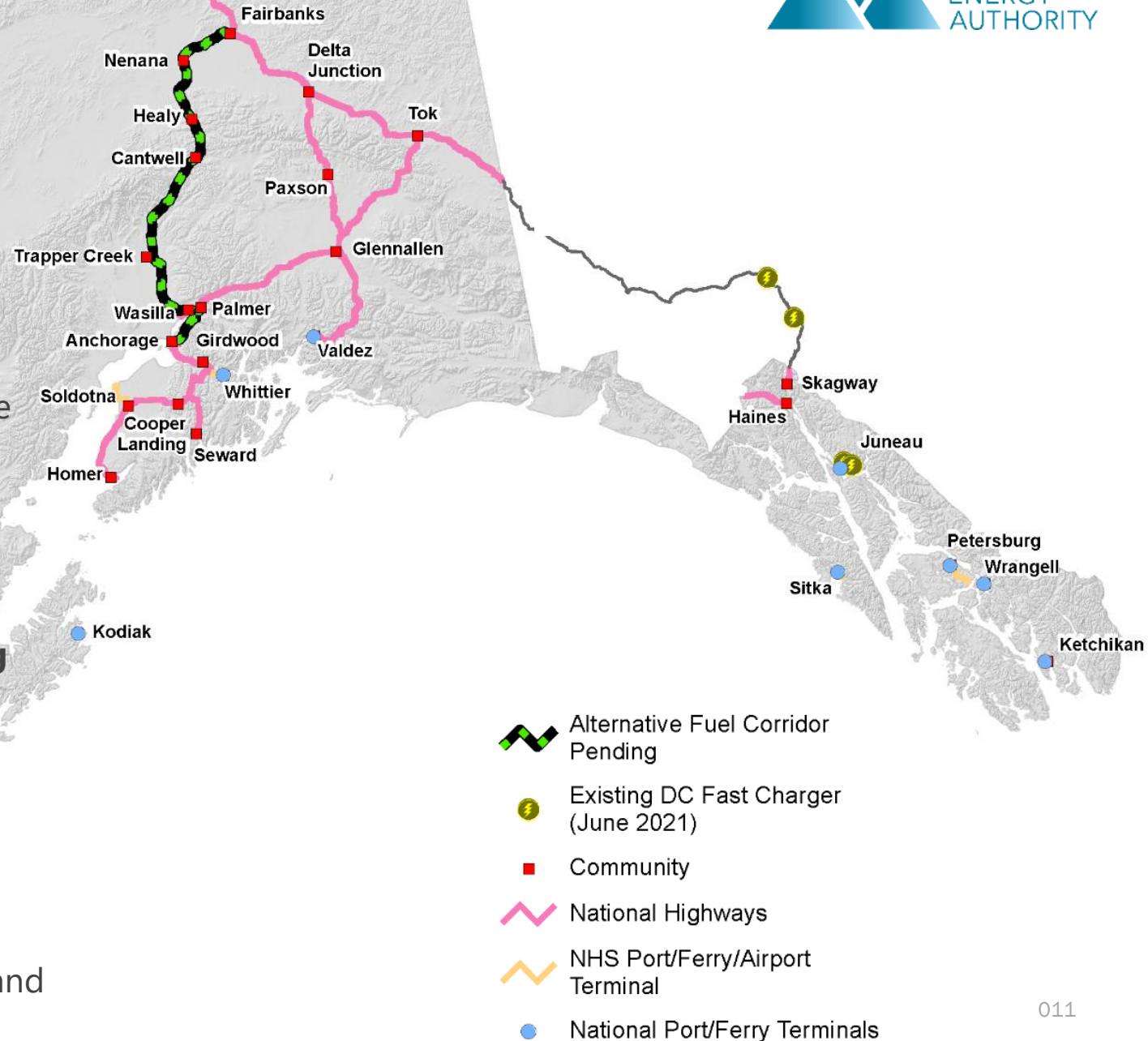
*Meeting attendee location, virtual or in-person, and community survey response locations



NEVI Requirements

Funding must be used to build out Alternative Fuel Corridors (AFCs) first

- Alaska currently has one AFC
- After AFC buildout, funding can be used elsewhere
- Charging stations must be located no more than **50 miles** apart along designated AFC
- Chargers must be located no more than **1 driving mile from AFC**
- Charging infrastructure must be **DC fast-charging**
 - 4 Combined Charging System Connectors
 - >150 kW each
- Justice 40
- 80% Federal Share, 20% Match
- Title 23 Program
- National Electric Vehicle Infrastructure Standards and Requirements, Buy America Build America





**Build out Alaska's
Alternative Fuel Corridor**



**Build out Alaska's Highway
and Marine Highway Systems**

As funding allows ▶



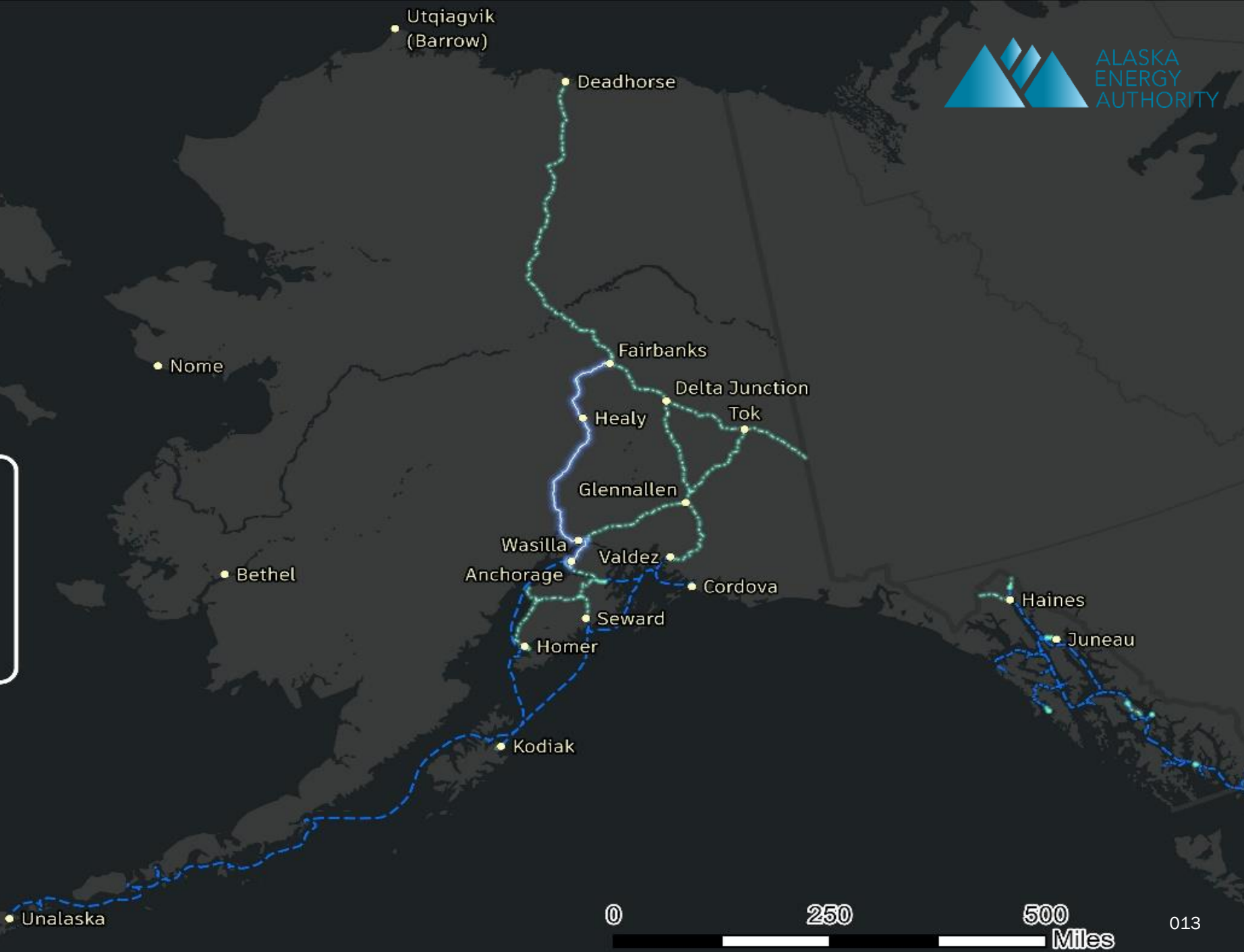
**Install Charging Stations
in Rural Hub Communities**



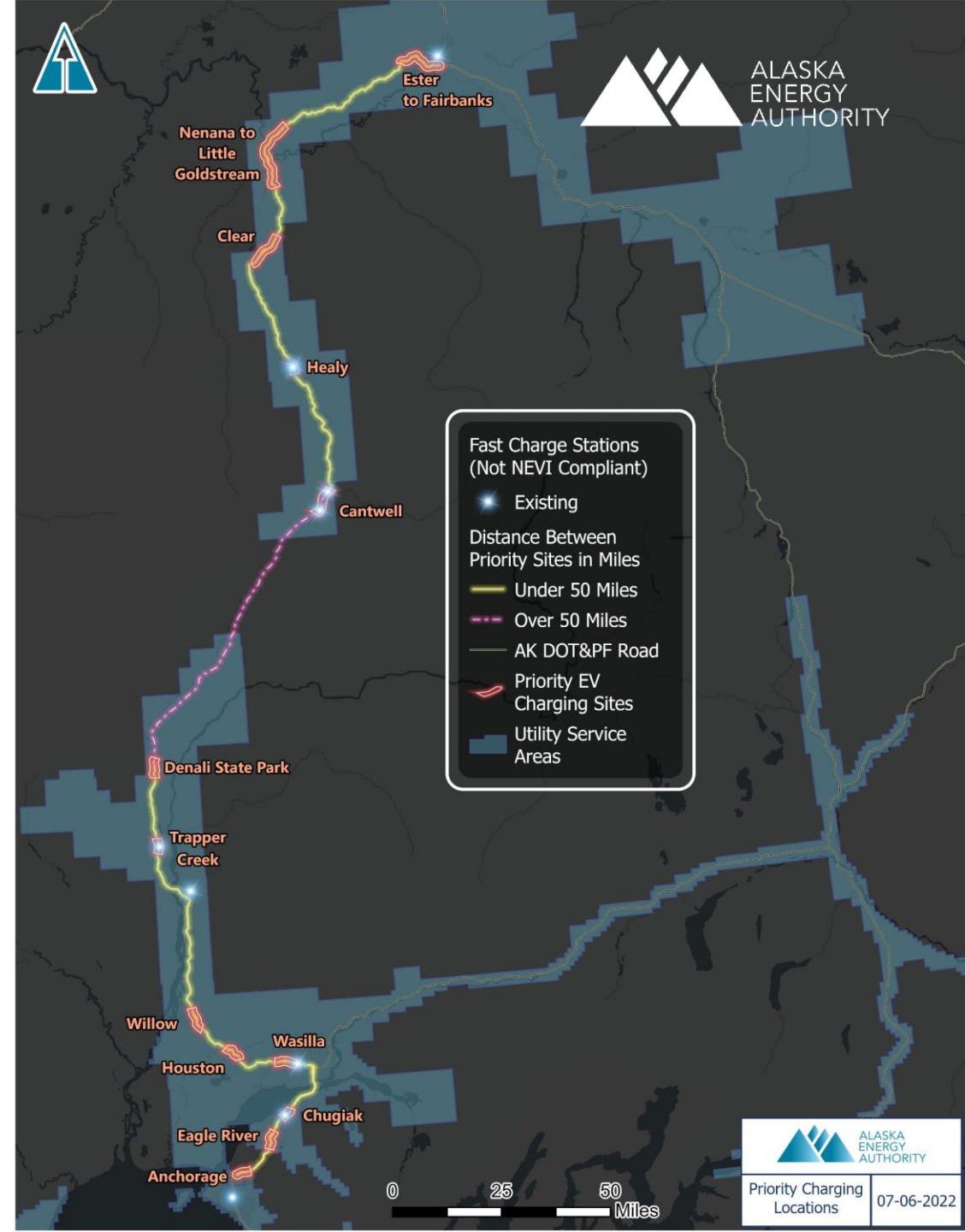
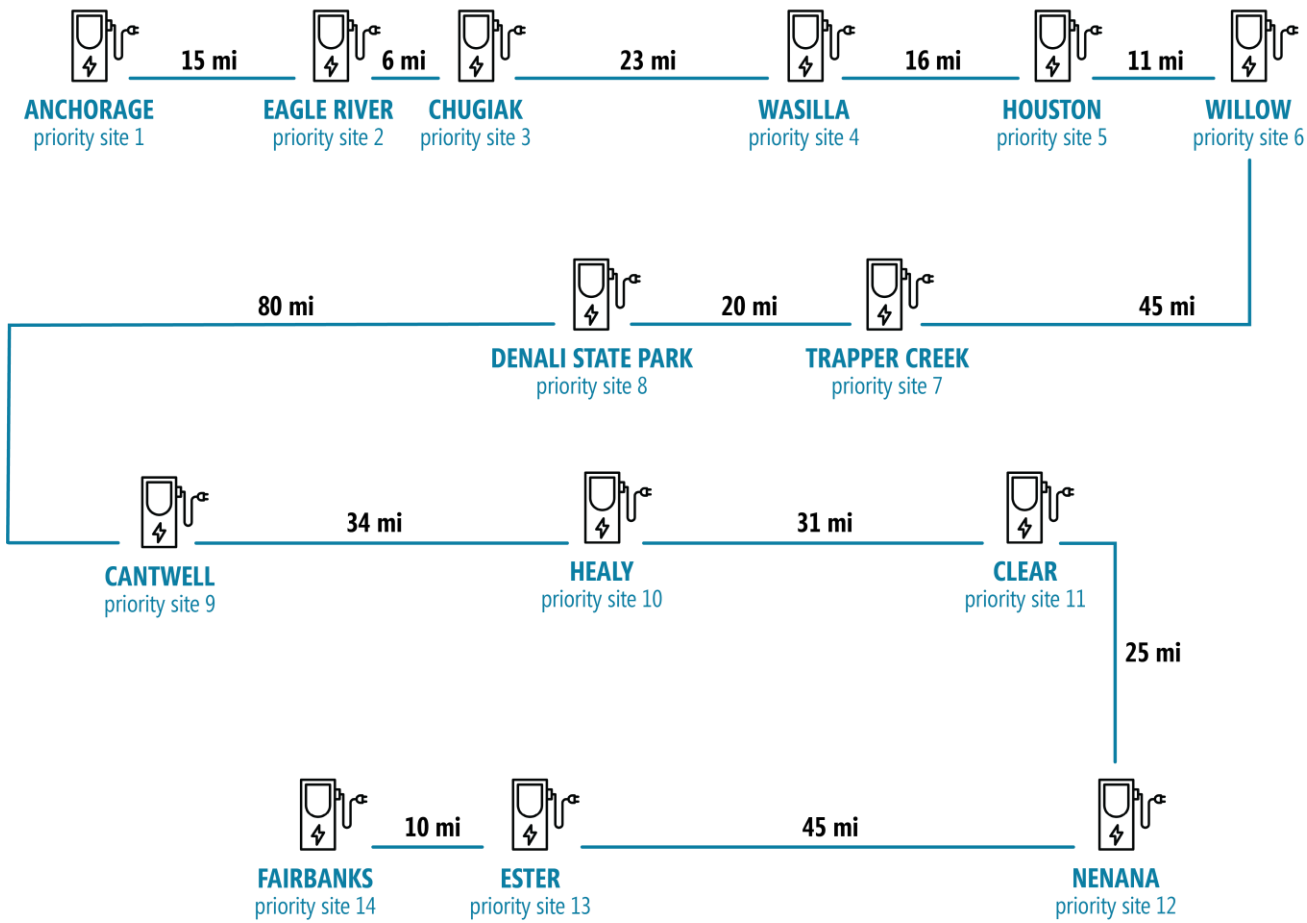
**Urban and
"Destination" Locations**



- Community
- Alternative Fuel Corridor
- - - National Highway System
- - - Marine Highway System Route



Phase 1: Alternative Fuel Corridor

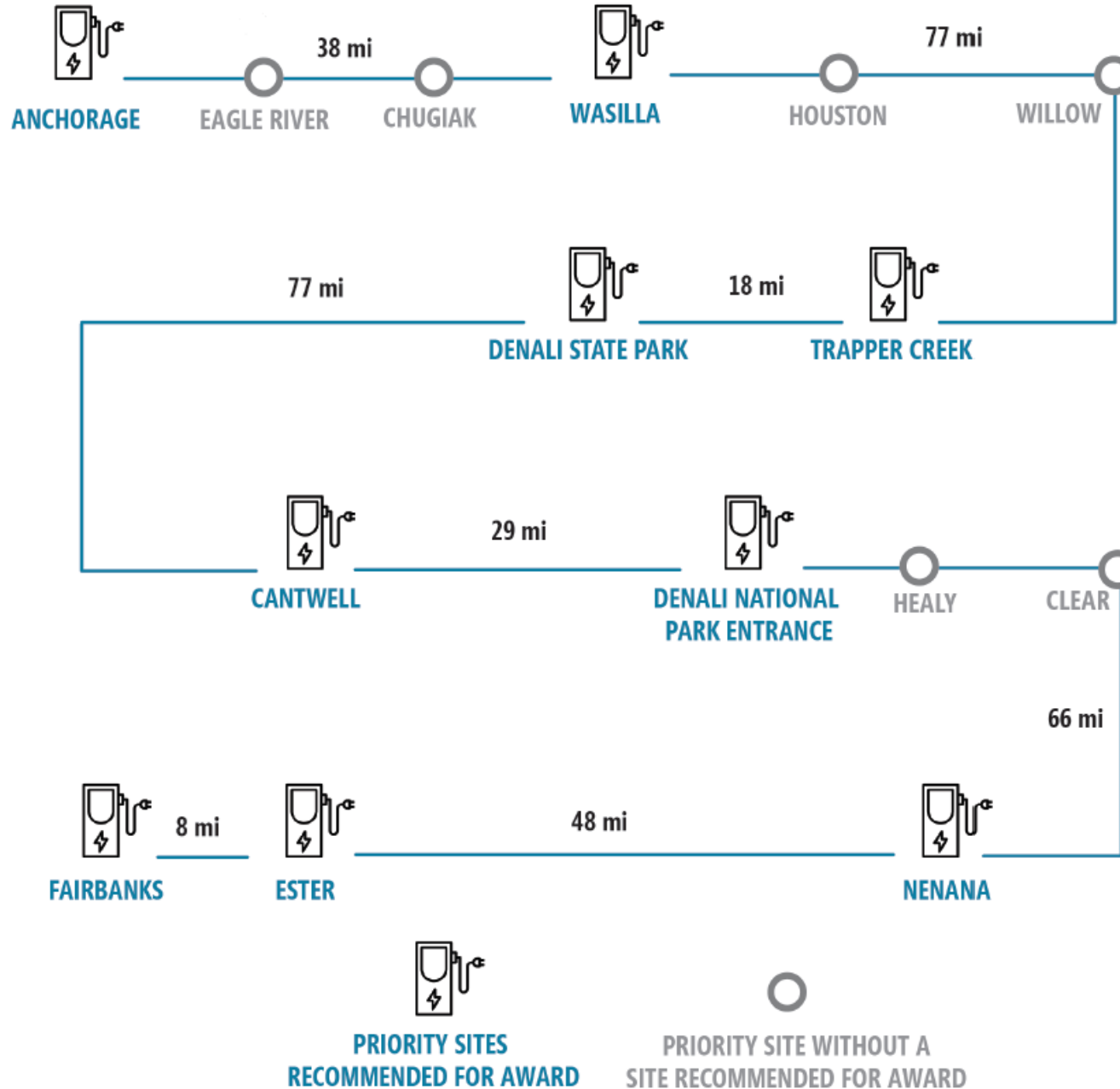


Number of Applications Received by Location

4 Fairbanks	1 Willow
1 Ester	2 Houston
5 Nenana	3 Wasilla
3 Healy	1 Chugiak
3 Cantwell	2 Eagle River
1 Denali State Park	5 Anchorage
3 Trapper Creek	



Priority Sites Recommended for Award



Department of Energy: Vehicle Technologies Office

AEA will receive funding for the Alaska Rural EVSE Deployment (ARED) Project

- ~\$2 MM Project
- Alaska EVSE Deployment and Best Practices in Rural and Underserved communities:
- Demonstrate EVSE in rural areas
 - Install EVSE
 - Fund data collection and analysis
 - Technical assistance and training resources



Alaska Rural EVSE Deployment (ARED)

Objective: engage and electrify rural communities in multiple energy regions.

1. Community Engagement and Alignment

- AEA will identify rural communities for electric vehicle outreach and workforce development.

2. EVSE Installation

- § AEA will install 36 charging stations selected locations.

3. Performance Reporting and Lessons Learned

- § AEA will compile and analyze data and share results and findings

Charging and Fueling Infrastructure (CFI) Program

- **Objective:** Deploy publicly accessible EV charging and other alternative fueling infrastructure in communities and along AFCs
- **Joint CFI Application between DOT&PF and AEA**
- **Community Program Application**
 - L2 and DCFC stations for coastal communities along the Marine Highway System
- **\$15 million total project amount**



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

Alaska Energy Authority

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