

ALASKA ENERGY AUTHORITY

# ALASKA'S ELECTRIC VEHICLES PROGRAM

Josi Hartley  
Alaska Energy Authority

---

December 7, 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.





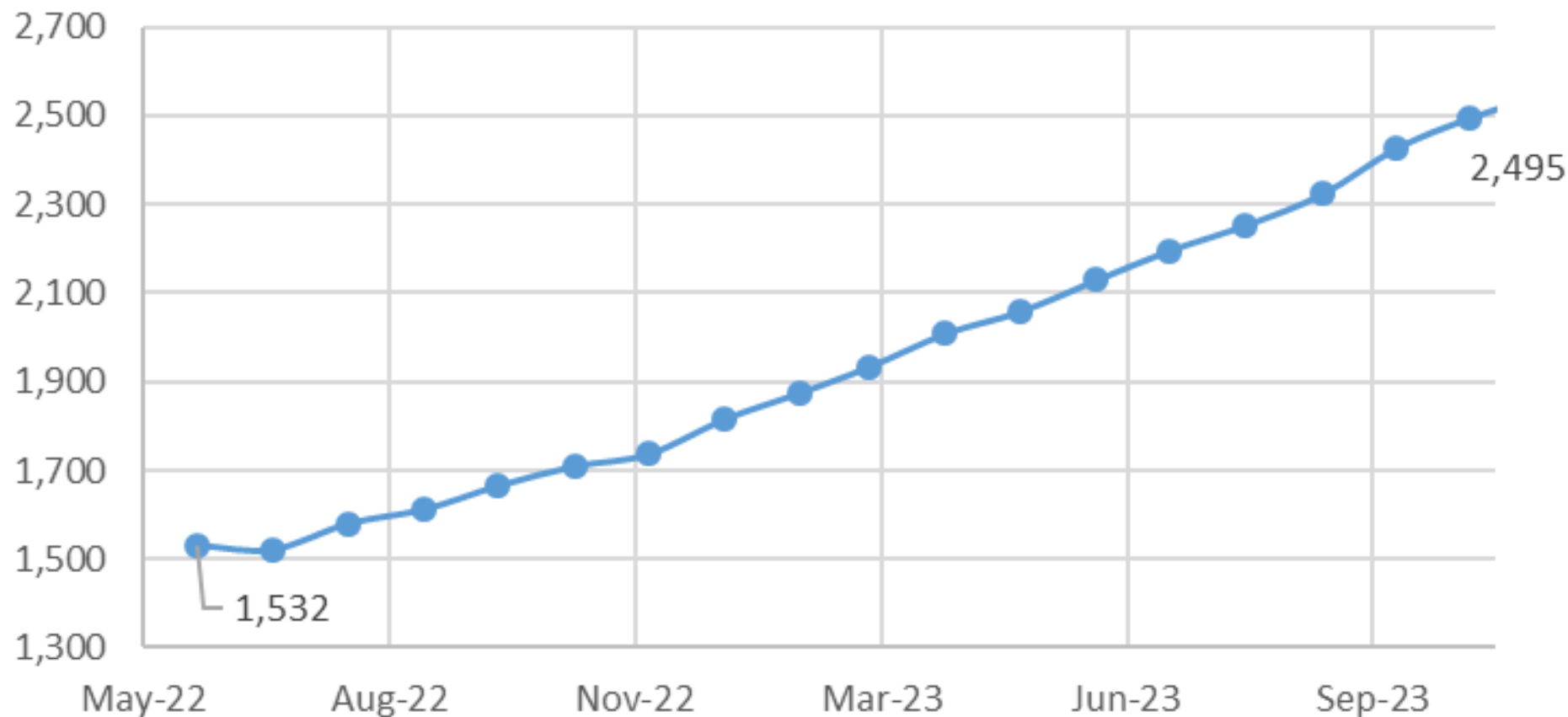
## AEA EV Program Goal

---

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

## Statewide EV Registrations

Source: Alaska DMV



### Nov 2022 – Nov 2023:

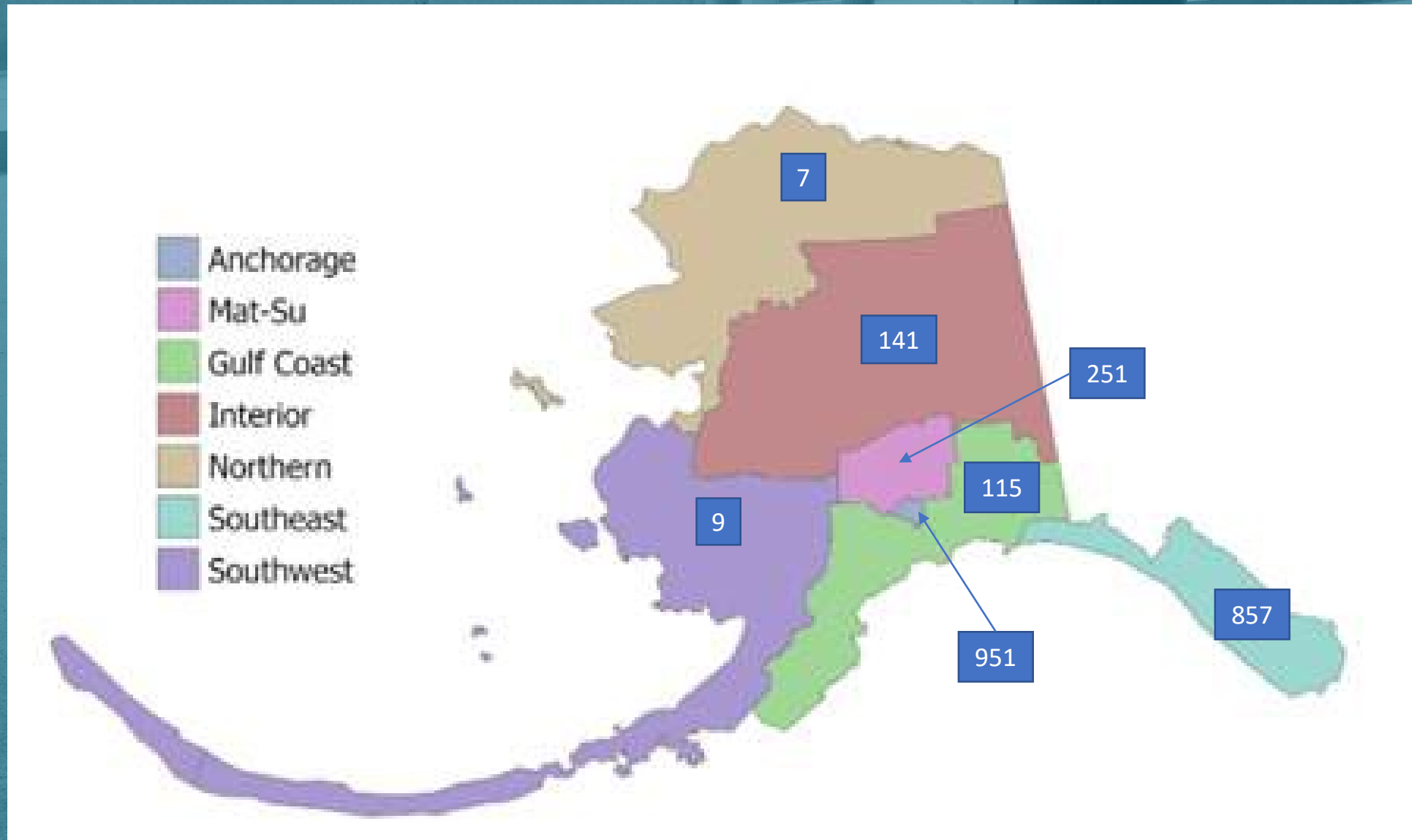
- 814 New EVs Registered
- 0.5% of Vehicles are EVs
- 47% Increase from 2022 to 2023

### Continued Growth Trend:

- Nov 2024: 3,747 EVs
- Nov 2025: 5,502 EVs
- Nov 2026: 8,080 EVs
- Nov 2027: 11,867 EVs
- Nov 2028: 17,428 EVs
  - 3.25% of Registered Vehicles



# 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 FY24 NEVI Plan

---

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

- On September 30, 2023, **the FY24 plan was approved.**
- Alaska will receive **\$52 million** for EVSE.
- All **discretionary exception requests** were **approved.**



## State of Alaska Electric Vehicle Infrastructure Implementation Plan FY24



ALASKA  
ENERGY  
AUTHORITY





# 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**

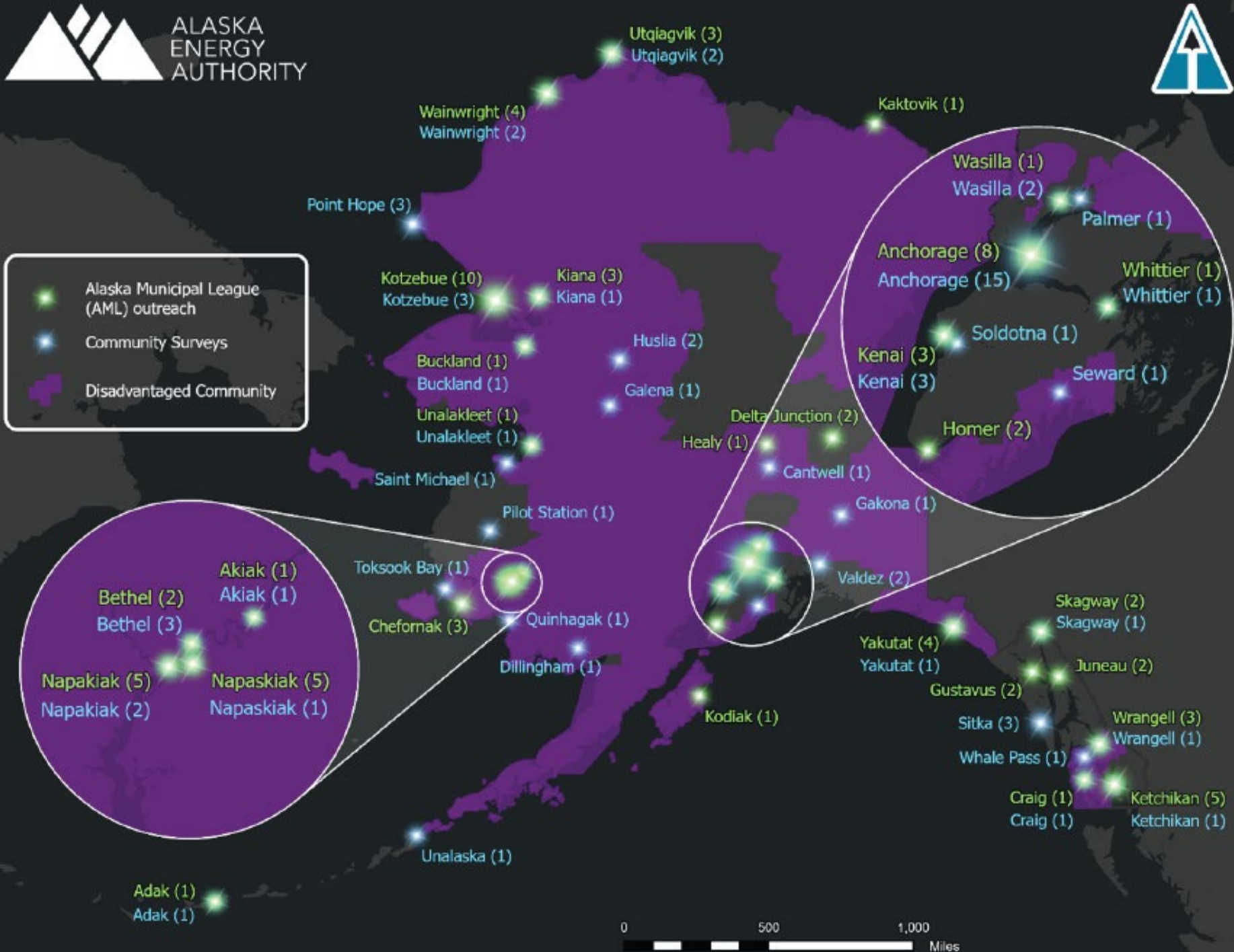
Communities



ALASKA  
ENERGY  
AUTHORITY

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

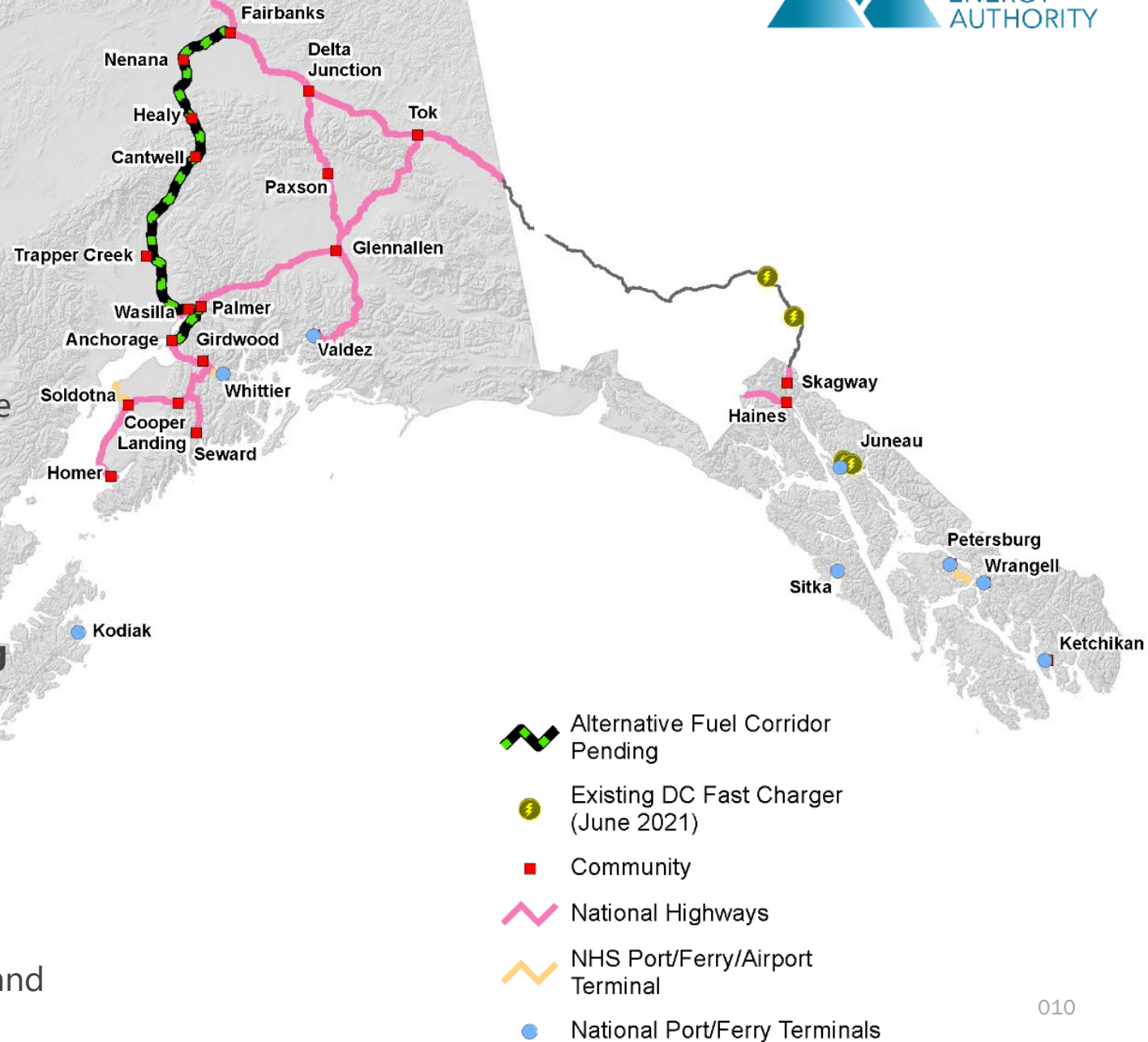




# NEVI Requirements

## 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

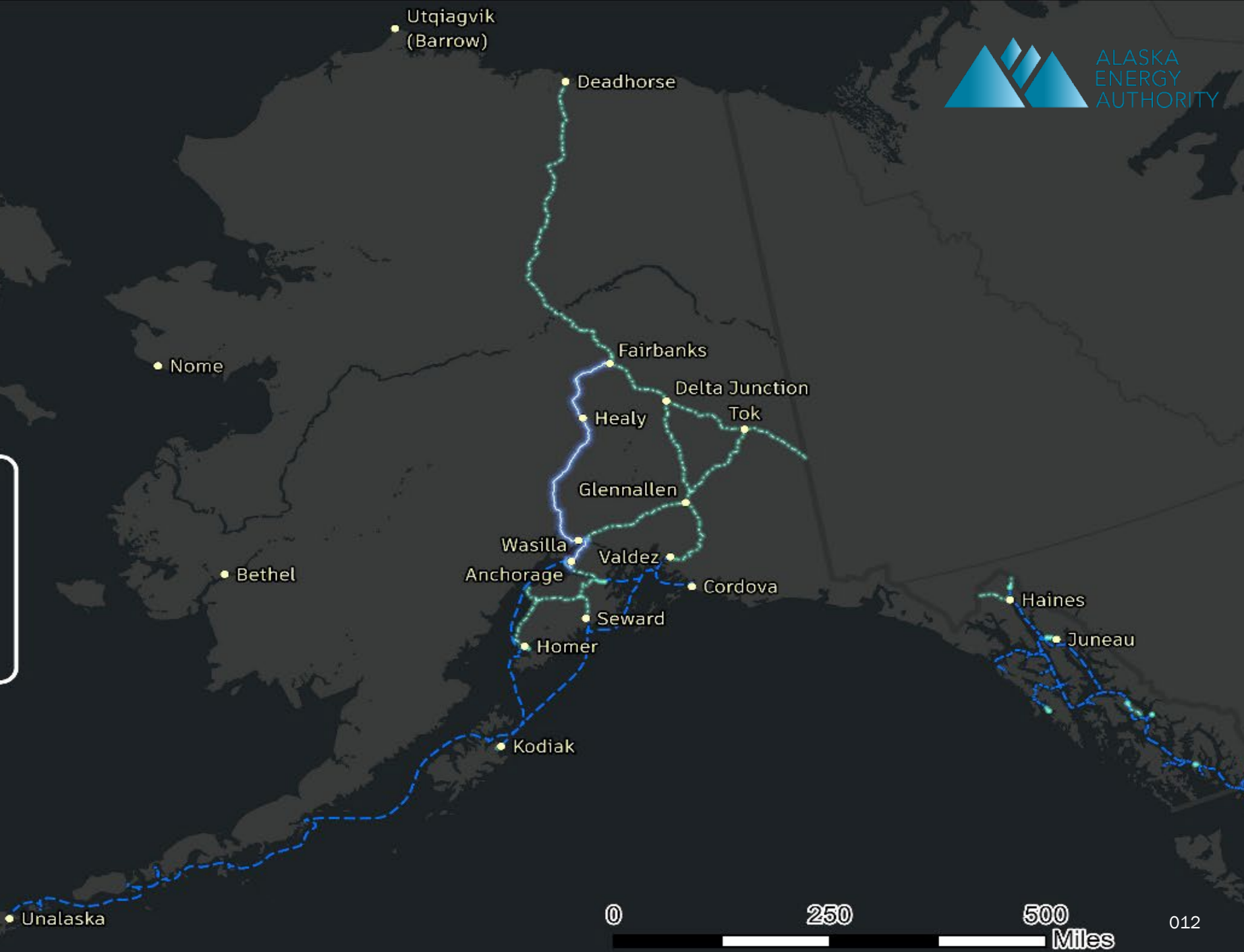


Urban and  
"Destination" Locations



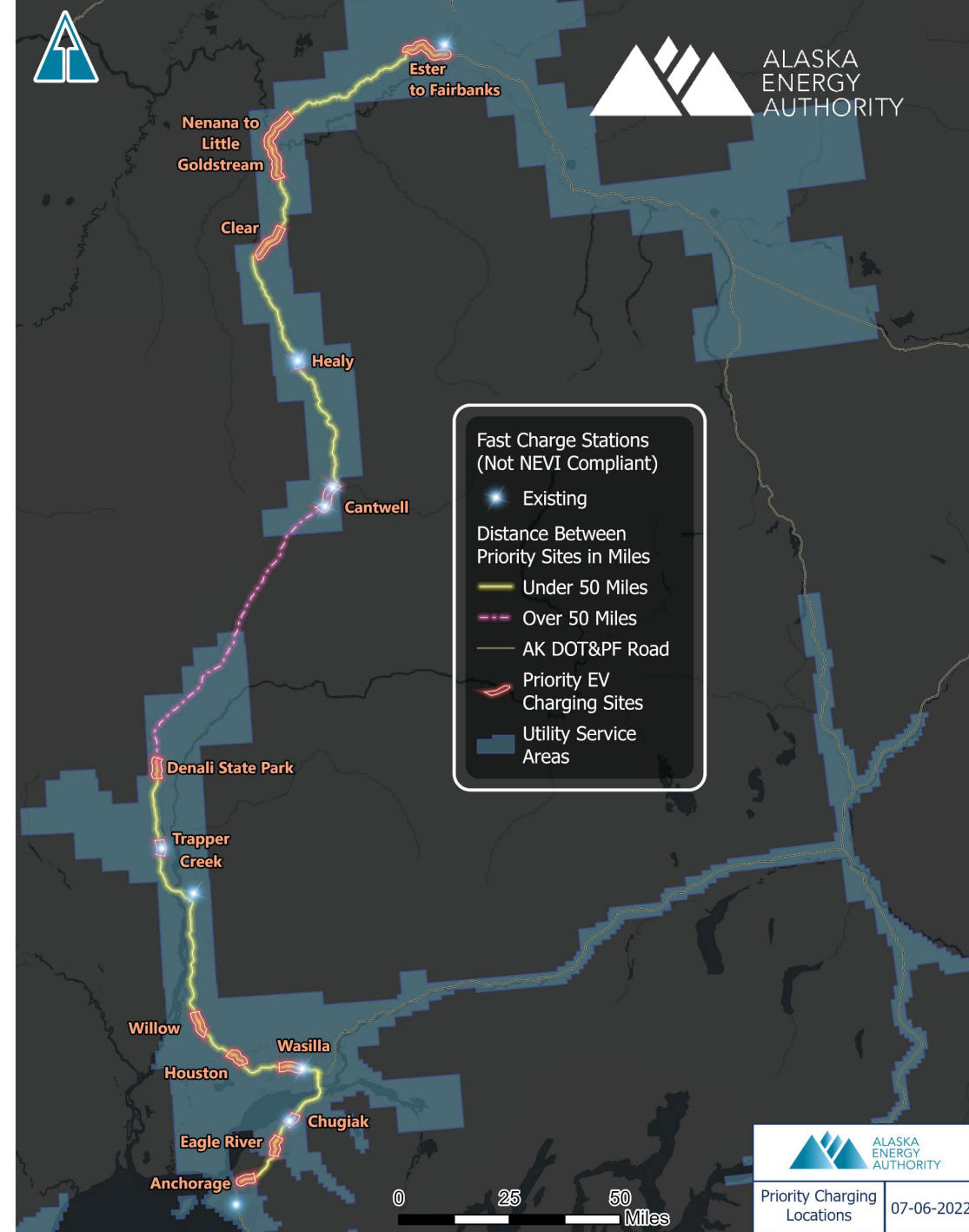
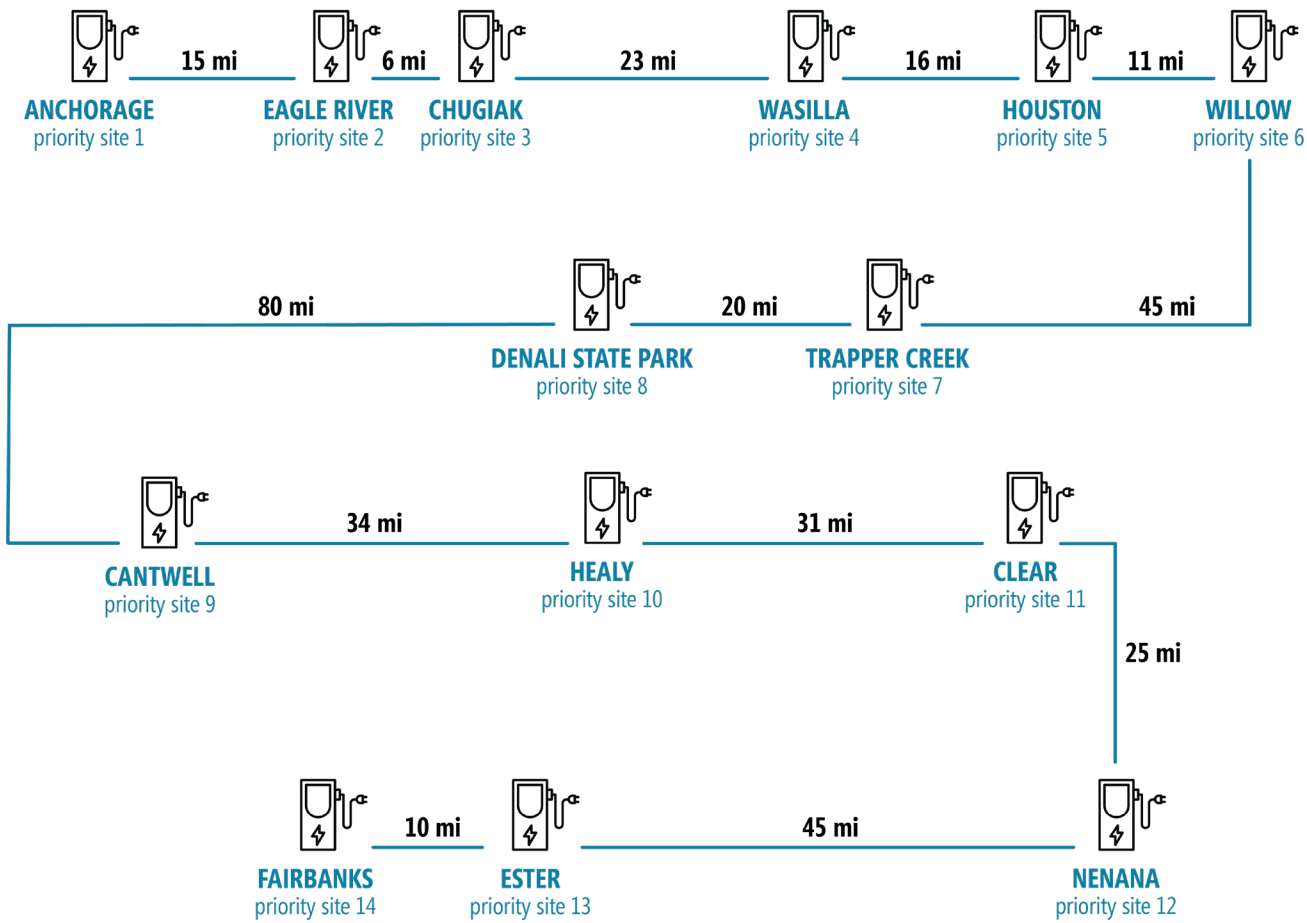


- Community
- Alternative Fuel Corridor
- - - National Highway System
- - - Marine Highway System Route





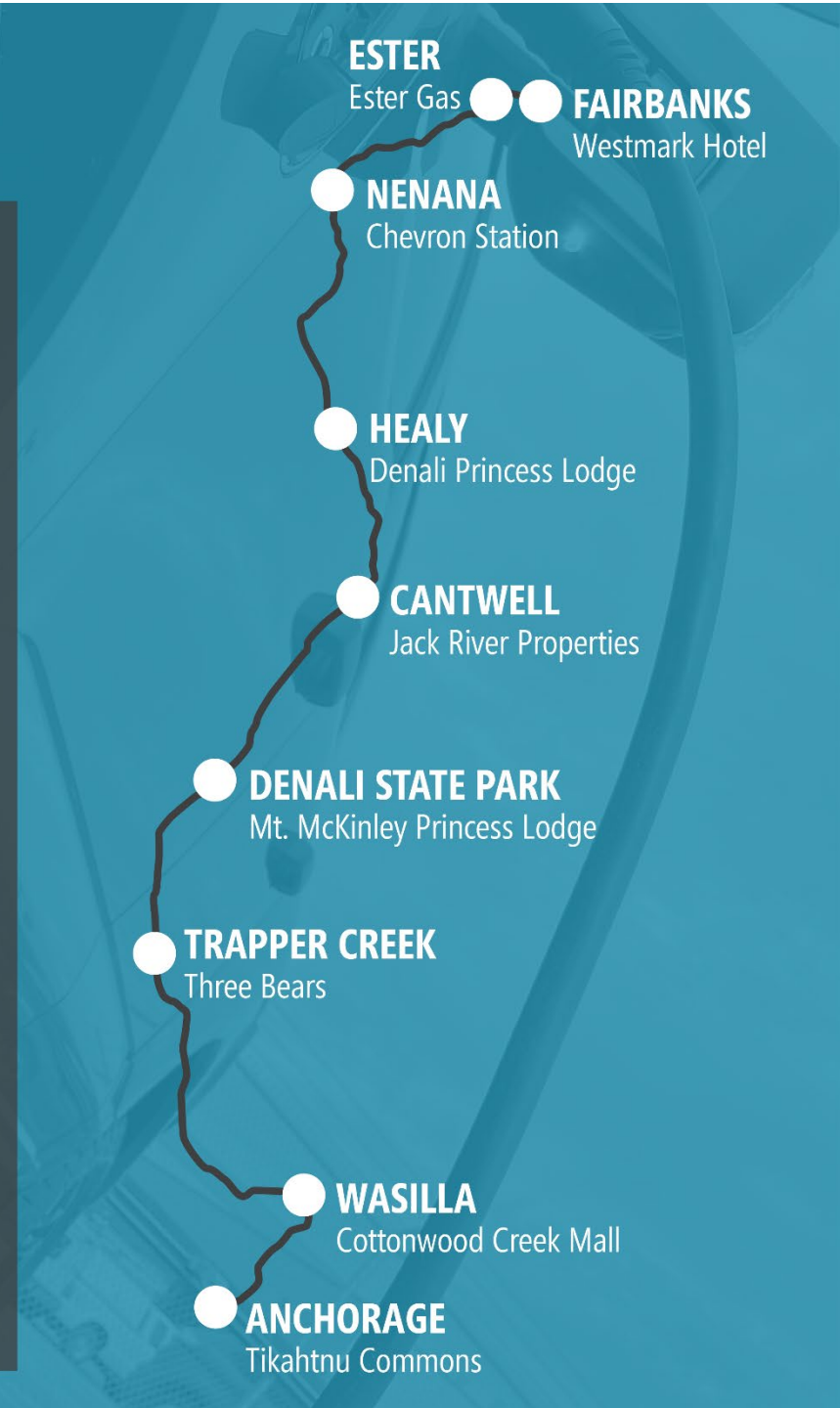
# Phase 1: Alternative Fuel Corridor



# Phase One NEVI Awards

PRIORITY SITE	LOCATION	NETWORK PROVIDER	
<b>Fairbanks</b>	Westmark Hotel	July	
			→ 10 miles
<b>Ester</b>	Ester Gas	Tesla	
			→ 44 miles
<b>Nenana</b>	Chevron Station	Tesla	
			→ 66 miles
<b>Healy</b>	Denali Princess Lodge	July	
			→ 28 miles
<b>Cantwell</b>	Jack River Properties	Tesla	
			→ 78 miles
<b>Denali State Park</b>	Mt. McKinley Princess Lodge	July	
			→ 20 miles
<b>Trapper Creek</b>	Three Bears	Tesla	
			→ 73 miles
<b>Wasilla</b>	Cottonwood Creek Mall	FLO	
			→ 37 miles
<b>Anchorage</b>	Tikahtnu Commons	FLO	

**DISTANCE BETWEEN STATIONS**





# Alaska Rural EVSE Deployment (ARED)

**AEA and Partners: ACEP, Ahtna, DOT&PF, AML, Launch Alaska, Yellowstone Teton Clean Cities Coalition**

**EVSE:** Systems that include conductors, related equipment, software and communications protocols that deliver energy efficiently and safely to the vehicle.

## High Level Project Goals:

- Electrify rural and disadvantaged Alaskan communities in multiple energy regions through the installation of EVSE.
- At least 40% of the program benefits will be received by DAC's.
- Develop and implement plans for installing EVSE with the best fit for community needs.
- Team will designate hub communities and conduct outreach. <sup>15</sup>



# ARED: Phases of Work

---

## **Task 0: Program Management and Planning**

- Establish Project Management Plan and Project Framework

## **Task 1: Community Engagement and Alignment**

- Conduct outreach to understand community buy-in for EVSE

## **Task 2: Site Selection and EVSE Installation**

- Install EVSE in rural hub communities and initiate data collection

## **Task 3: Performance Reporting and Lessons Learned**

- Goal is to analyze collected data and disseminate to stakeholders



# ARED: Budget

---

## Budget Summary

	Federal	Cost Share	Total Costs	Cost Share %	Budget Period Dates
<b>Budget Period 1</b>	\$306,224	\$76,554	\$382,778	20.00%	October 2023 – September 2024
<b>Budget Period 2</b>	\$962,191	\$240,566	\$1,202,757	20.00%	October 2024 - September 2025
<b>Budget Period 3</b>	\$398,986	\$99,748	\$498,734	20.00%	October 2025 – September 2026
<b>Total</b>	\$1,667,401	\$416,868	\$2,084,269	20.00%	

<b>Budget Period 1 (October 2023 – September 2024)</b>		
<b>Milestone</b>	<b>Due</b>	<b>Deliverables</b>
<b>MS 1: Hub Communities Identified</b>	1/31/24	-List for targeted outreach
<b>MS 2: Outreach Tour</b>	5/31/24	-Baseline data -Finalized community list
<b>MS 3: In-Community Site(s) Identified</b>	7/31/24	-Individual Site Nominations
<b>MS 4: Finalized in-community sites with deployment strategy</b>	9/30/24	-Community Driven EV Charger Deployment Report
<b>Budget Period 2 (October 2024 – September 2025)</b>		
<b>Milestone</b>	<b>Due</b>	<b>Deliverables</b>
<b>MS 5: Defined reporting metrics and procedures</b>	1/31/25	-Backend data collection system
<b>MS 6: Site Host Commitments</b>	3/31/25	-Grant Agreements
<b>MS 7: Site Commissioning</b>	9/30/25	-Commissioning Reports
<b>Budget Period Three (October 2025 – September 2026)</b>		
<b>Milestone</b>	<b>Due</b>	<b>Deliverables</b>
<b>MS 8: Data Analysis / Evaluation</b>	8/30/26	-Report of findings -Best Practices -Lessons Learned



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

## Alaska Energy Authority

Josi Hartley, Program Manager

[electricvehicles@akenergyauthority.org](mailto:electricvehicles@akenergyauthority.org)

---

813 W Northern Lights Blvd.  
Anchorage, AK 99503



---

Main: (907) 771-3000  
Fax: (907) 771-3044



---

akenergyauthority.org



---

@alaskaenergyauthority



---

@alaskaenergyauthority

