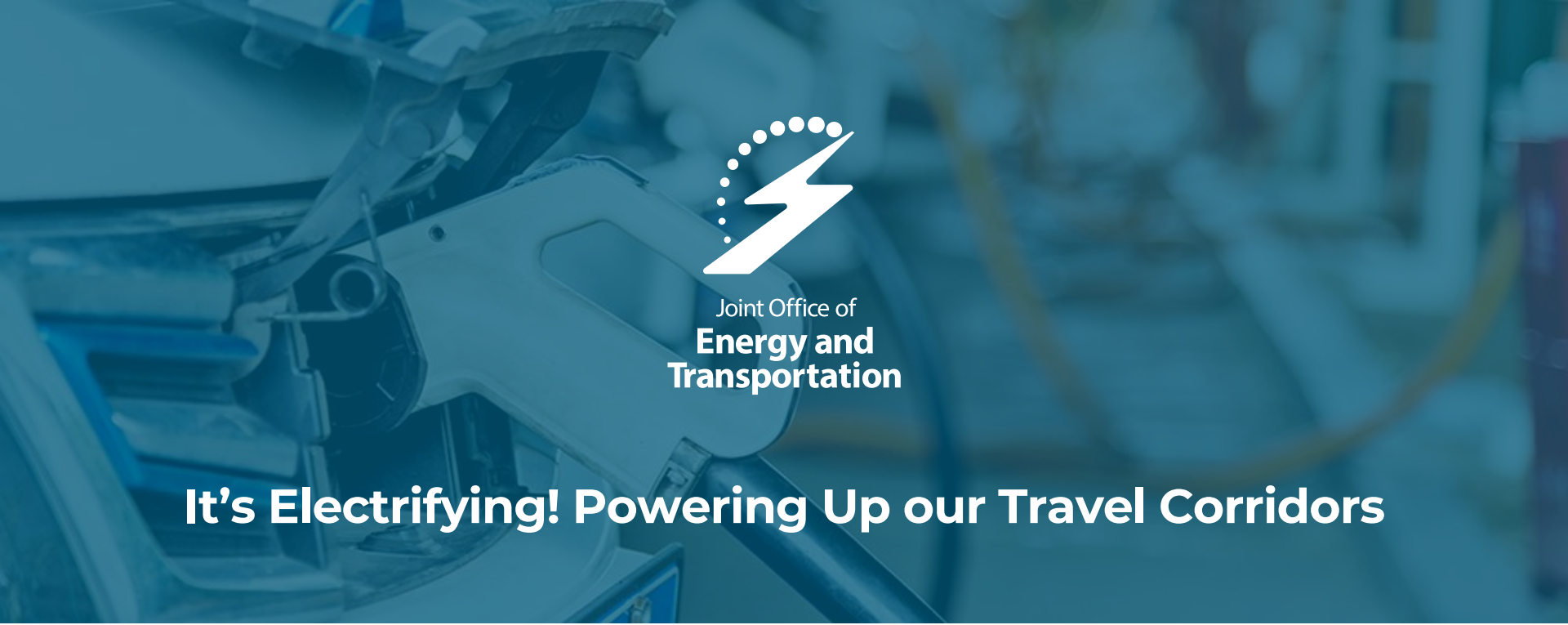


Joint Office of
Energy and
Transportation

It’s Electrifying! Powering Up our Travel Corridors

Mike Scarpino

Eastern Border Transportation Coalition- Resilient Corridors for Cross Border Trade and Travel

May 8, 2024

driveelectric.gov

National Alternative Fuel Corridors

To improve the mobility of alternative fuel vehicles, the U.S. Department of Transportation (DOT) has designated national corridors in strategic locations along major highways for:

- Plug-in electric vehicle charging
- Hydrogen fueling
- Propane (LPG) fueling
- Natural gas (CNG, LNG) fueling

EV – All Rounds (1-7)

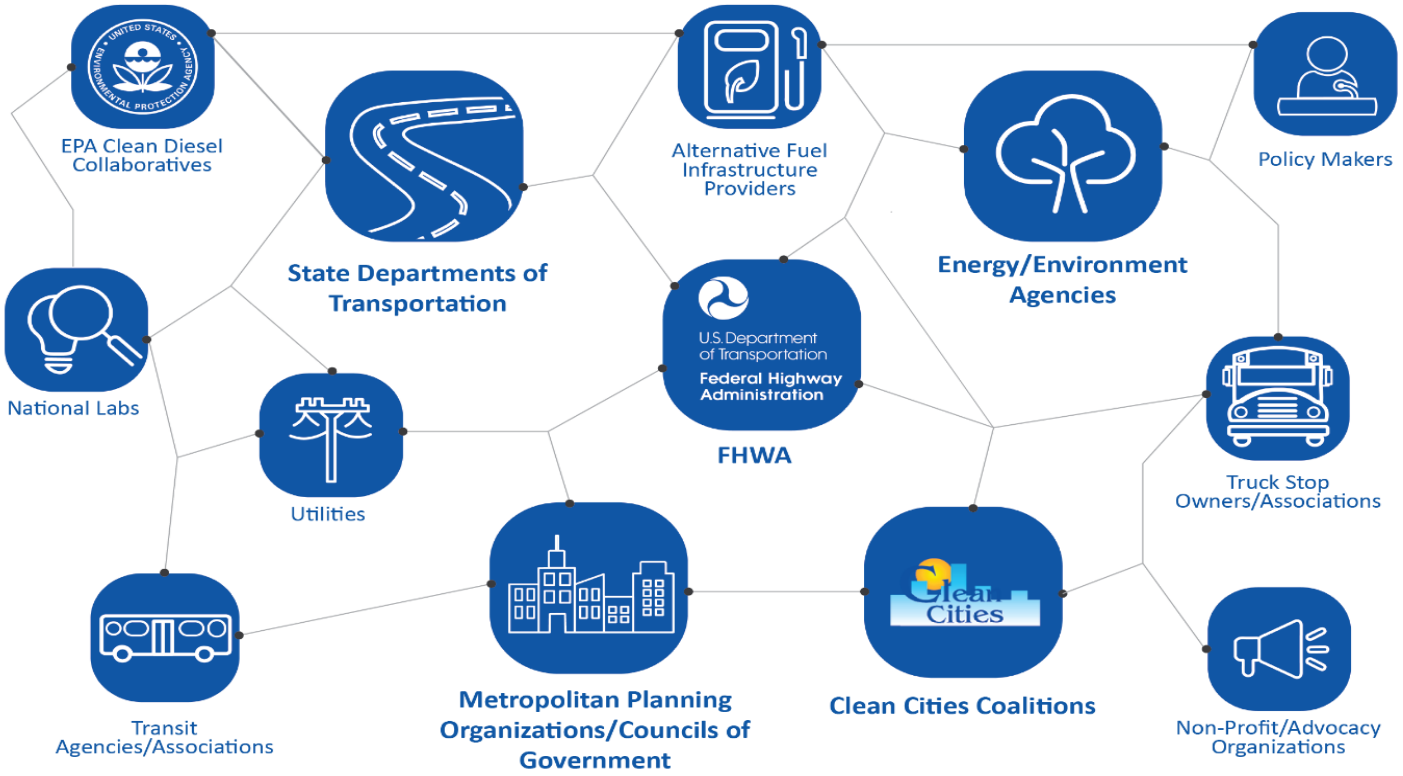
https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/

Bipartisan Infrastructure Law –
National EV Infrastructure (NEVI) Formula Program ($5B)
Charging & Fueling Infrastructure (CFI) Discretionary Grant Program ($2.5B)

- NEVI Eligible Projects
  - Any EV charging infrastructure acquired or installed **shall be located along a designated alternative fuel corridor.**
    - If a State determines, and DOT certifies, that the designated alternative fuel corridors in the States are **"fully built out"**, then the State may use funds provided for EV charging infrastructure on any public road or in other publicly accessible locations.

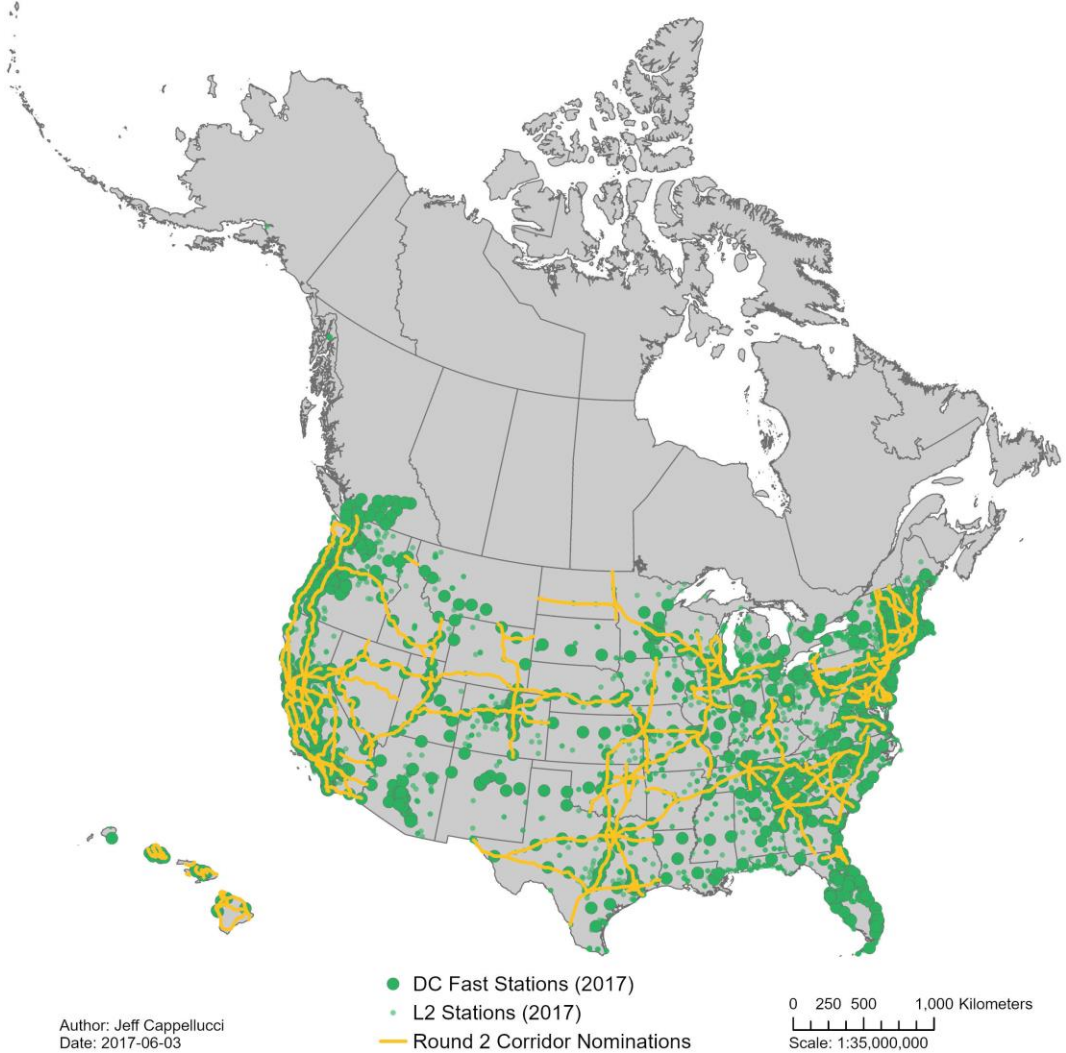
- CFI Eligible Projects
  - Provides competitive discretionary grant funding for **corridor & community** charging and alternative fueling infrastructure.
  - Corridor Fueling/Charging Requirements:
    - Publicly accessible sites along a FHWA **designated alternative fuel corridor**
    - Improve alternative fueling corridor networks by:
      - Converting **corridor-pending corridors to corridor-ready corridors**

FHWA AF Corridor Key Stakeholders



https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/webinars/summary_report/

2017



USA

4,858

DCFast EVSE Ports

39,425

L2 EVSE Ports

24,393

Miles of nominated EV Corridors*

Canada

54

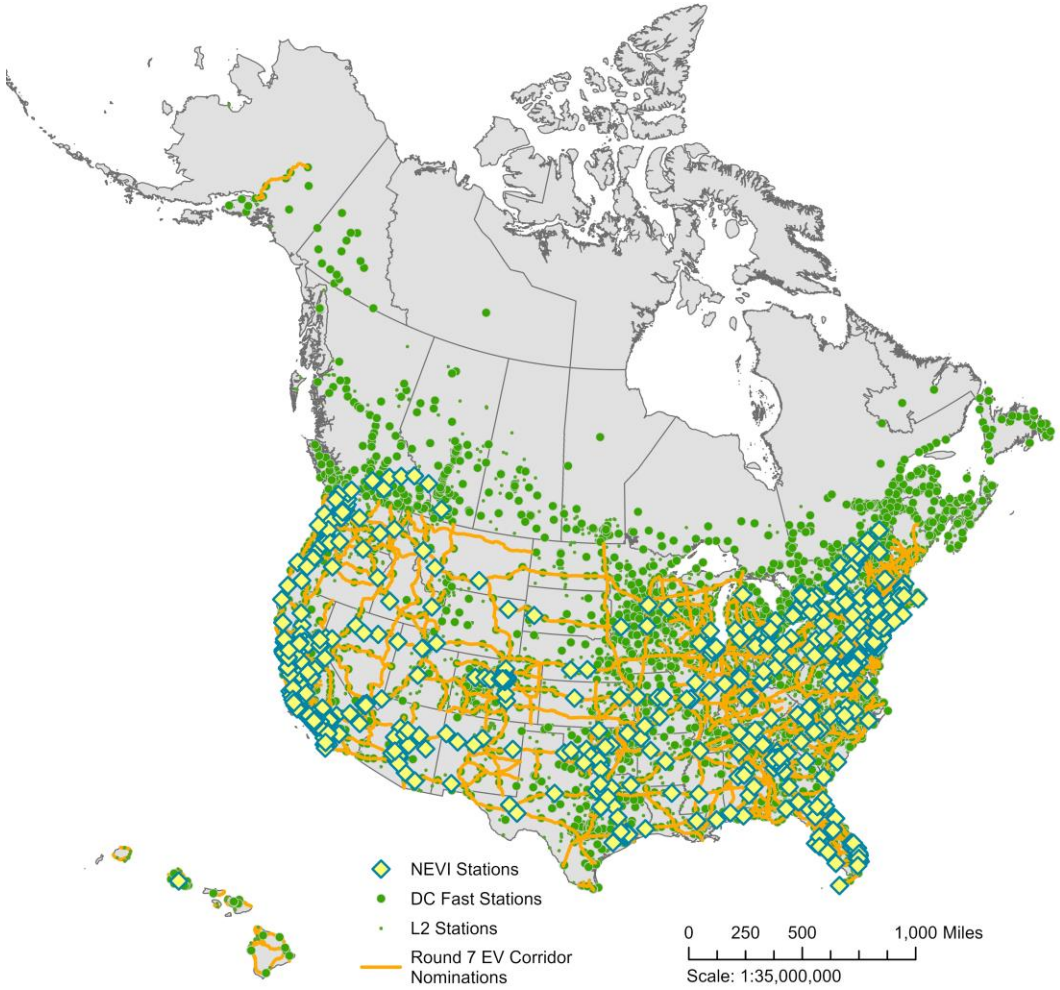
DC Fast EVSE Ports

39

L2 EVSE Ports

*Public DC Fast Charging separated by less than 50 miles. For the initial 2016 designations, FHWA designated highways with both Level 2 and DC Fast Charging capabilities. For 2017 and beyond, FHWA designated only DC Fast Charge infrastructure.

2024



USA

599

USA stations that meet key NEVI criteria

41,972

DCFast EVSE Ports

131,420

L2 EVSE Ports

81,669

Miles of nominated EV Corridors*

Canada

56

Canada stations that meet NEVI criteria

5,107

DC Fast EVSE Ports

22,745

L2 EVSE Ports

*Public DC Fast Charging separated by less than 50 miles. For Round 7, EVSE requirements were aligned with NEVI program – 4 port DCFC station with 150kw per port and CCS connectors.

U.S. NEVI Formula Program and Binational Corridor Definition

In February 2022, the United States National Electric Vehicle Infrastructure (NEVI) Formula Program established **power** and **distance criteria** for electric charging corridors.

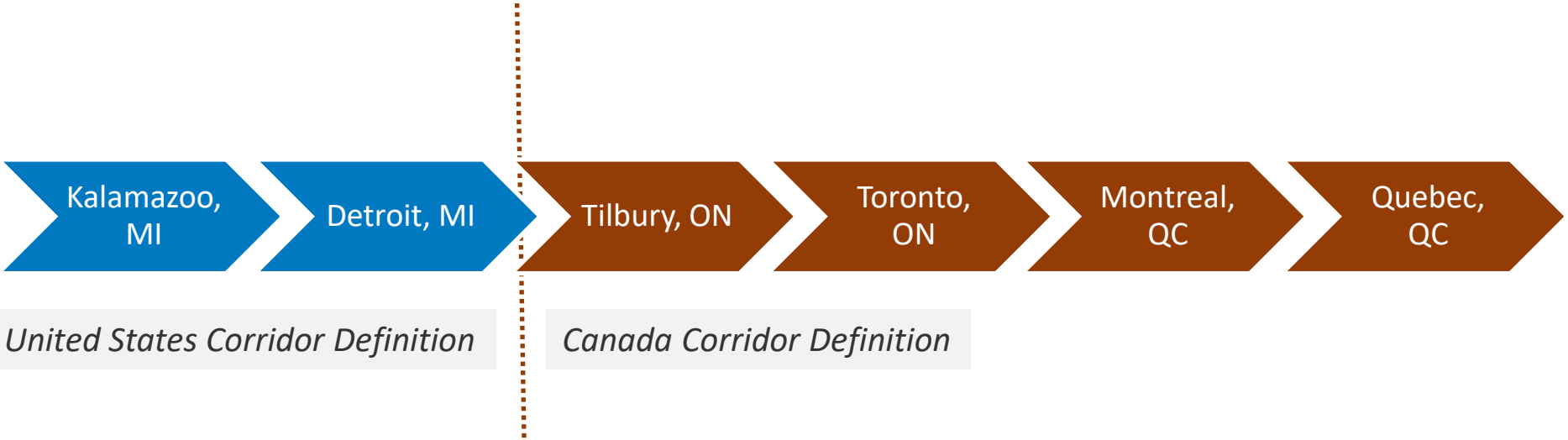
- **EV charging infrastructure:**
  - Installed **every 50 miles** along the state's portions of the interstate highway system **within 1 travel mile of the designated alternative fuel corridor (AFC)**, unless a discretionary exception has been granted
  - Includes **at least four 150kW DC fast chargers with Combined Charging System (CCS) ports** capable of simultaneously charging four EVs
  - Has minimum station power capability **at or above 600kW and supports at least 150kW per port simultaneously across four ports for charging**

Canadian Corridor Designation Requirements

- **In April 2023 Canadian Electric Charging Corridors were designated with the following guidelines**
- **EV charging infrastructure:**
  - Installed **every 80 km (50 miles)**
  - Includes **at least one DC fast chargers with *Combined Charging System (CCS) ports***
  - Chargers **must be less than 6km from the corridor** route, but are **ideally less than 2 km** of the route

- **ZEV Infrastructure funding program is enhancing its requirements to better align with NEVI**

First designated corridor between the United States and Canada – April 2023



Two new federal corridors under consideration

Binational Alternative Fuels Corridor

872 mile/1403 km Corridor from Kalamazoo to Quebec City

Cities
Electric Charging Corridor
1-3 DCFasts port with CCS connector
4 x150 kW DCFast ports with CCS

N
0 40 80 Kilometers
0 25 50 Miles

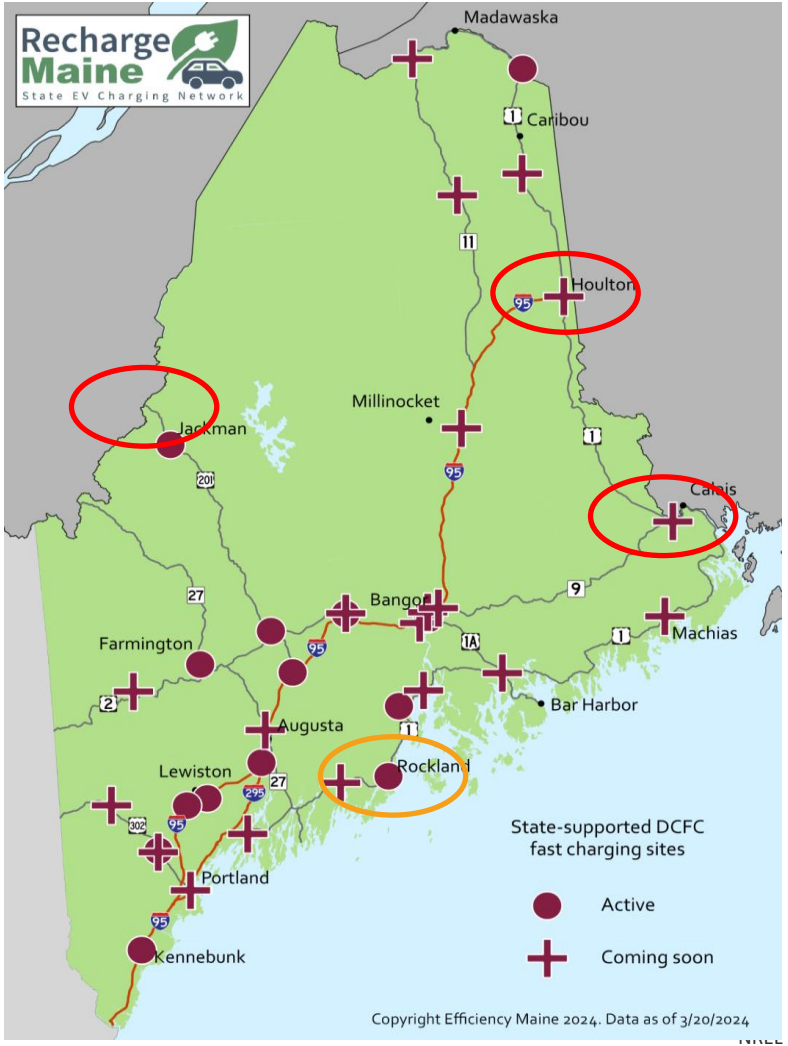
Data Source: Stations, U.S. DOE Alternative Fuels Data Center and Natural Resources Canada Electric Charging and Alternative Fuelling Stations Locator; U.S. Corridor, U.S. DOT Federal Highway Administration Alternative Fuel Corridors

Author: Johanna Levene, NREL
Date: 5/11/2023

States weigh in on next Federal Corridors

East Coast Corridor

- What is the best route through Maine to Canada for a rural route?
- More infrastructure planned in Maine along costal route
- More traffic through Quebec



National Zero-Emission Freight Corridor Strategy

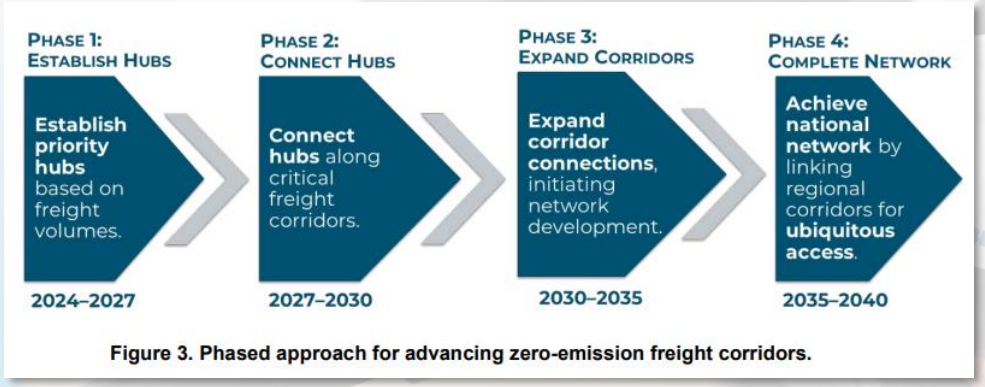
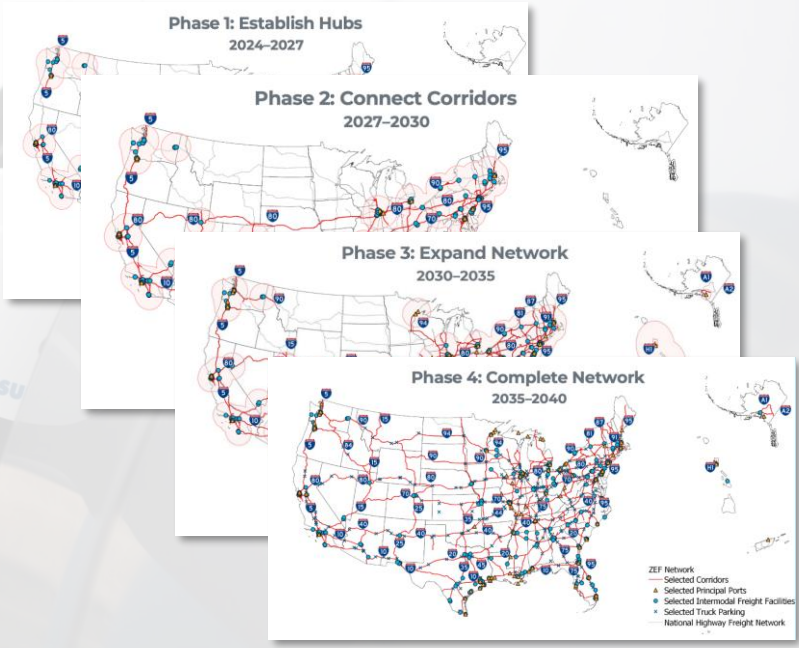


Figure 3. Phased approach for advancing zero-emission freight corridors.



https://driveelectric.gov/news/decarbonize-freight
https://driveelectric.gov/files/zef-corridor-strategy.pdf

Joint Office of
Energy and Transportation

Thank You !

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