

**FAST Act - Section 1413:
Alternative Fuels Corridor Program
October 16, 2017
Webinar**



U.S. Department of Transportation
Federal Highway Administration

Agenda

□ Alternative Fuels Corridor Program

- ✓ Overview
- ✓ Results of First Round
- ✓ 2017 Request for Nominations
 - Criteria
 - Process
 - Benefits
 - Resources
- ✓ State Signage Experiences
- ✓ Shapefiles/GIS Maps
- ✓ Q&A/Discussion



Alternative Fuels Corridor Designations

- ❑ The Secretary is required to designate corridors to improve mobility of passenger and commercial vehicles that employ electric vehicle charging, hydrogen, propane, and natural gas fueling technologies across the U.S. within one year of enactment (Dec. 2016):
 - ✓ Identify near and long-term need for infrastructure;
 - ✓ At strategic locations along major national highways;
- ❑ Solicit nominations from state and local officials;
- ❑ Incorporate existing infrastructure (demand and location)
- ❑ Stakeholder involvement (on a voluntary basis)
- ❑ No funding authorized



Results of 1st Round

- ❑ 34 nomination packages received, with nominated corridors separated into two designation categories:
 - ✓ **Signage-ready** – sufficient facilities on the corridor to warrant highway signage;
 - ✓ **Signage-pending** – currently insufficient facilities on the corridor to warrant highway signage.

- ❑ Designations....
 - ✓ Include portions/segments of 55 Interstates and a few state roads/highways
 - ✓ Comprise 35 states plus D.C.
 - ✓ Cover ~85,000 miles of the National Highway System

- ❑ This initial phase focused on interstate highway designations (many state highways and roads were nominated)

- ❑ Decisions based on DOE's *Alternative Fuel Station Locator* database

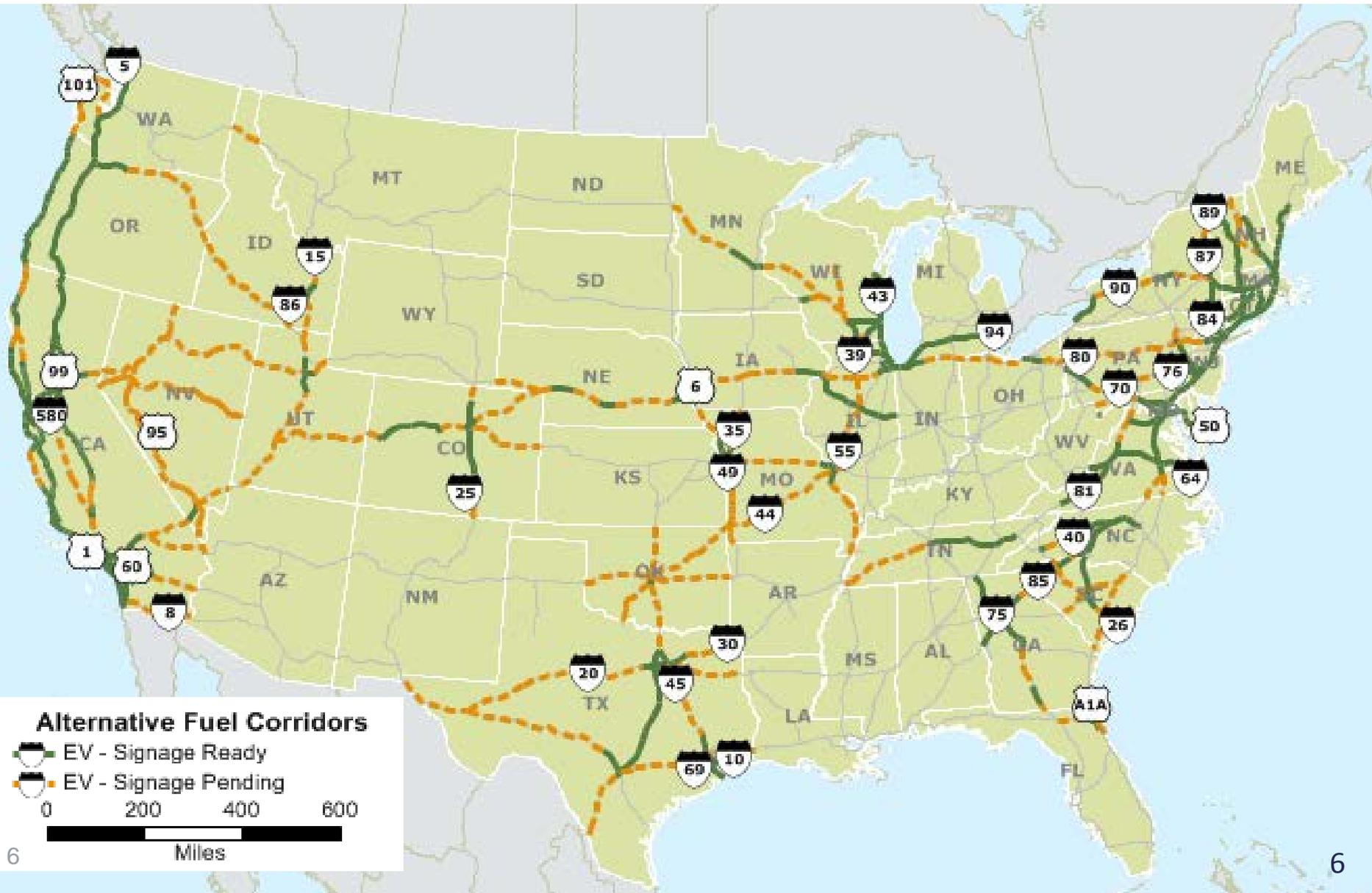
“Signage-Ready” Criteria for 2016 Initial Designations

EV	CNG	LNG	Hydrogen	Propane
Includes DCFC and Level 2	150 miles between stations	200 miles between stations	100 miles between stations	150 miles between stations
50 miles between stations	5 miles from highway			
5 miles from highway	Public stations only	5 miles from highway	5 miles from highway	Public stations only
Public stations only (no Tesla)	Fast fill, 3,600 psi	Public stations only	Public stations only	Primary stations only

EV Corridor Map



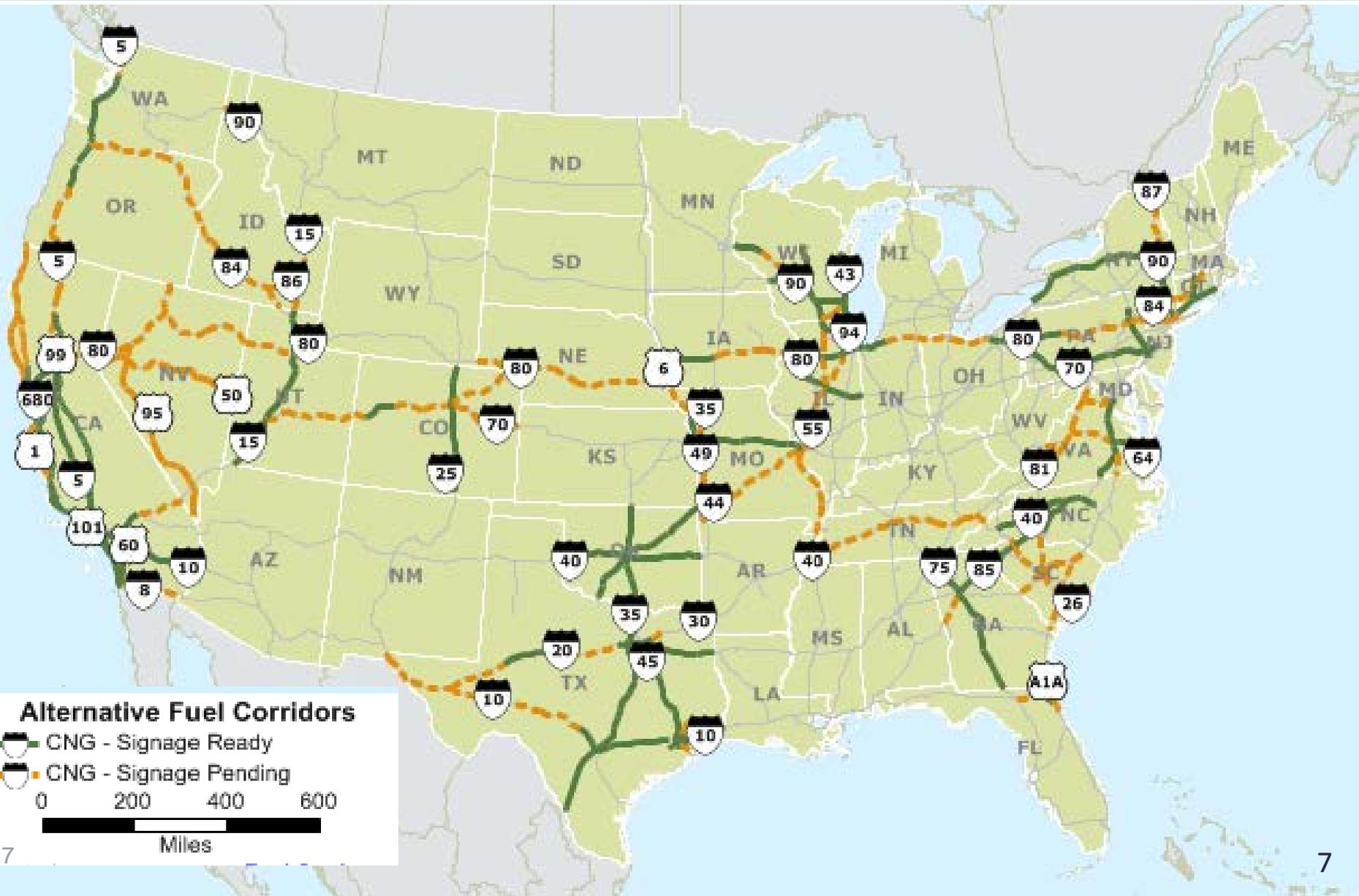
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CNG Corridor Map



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LNG Corridor Map



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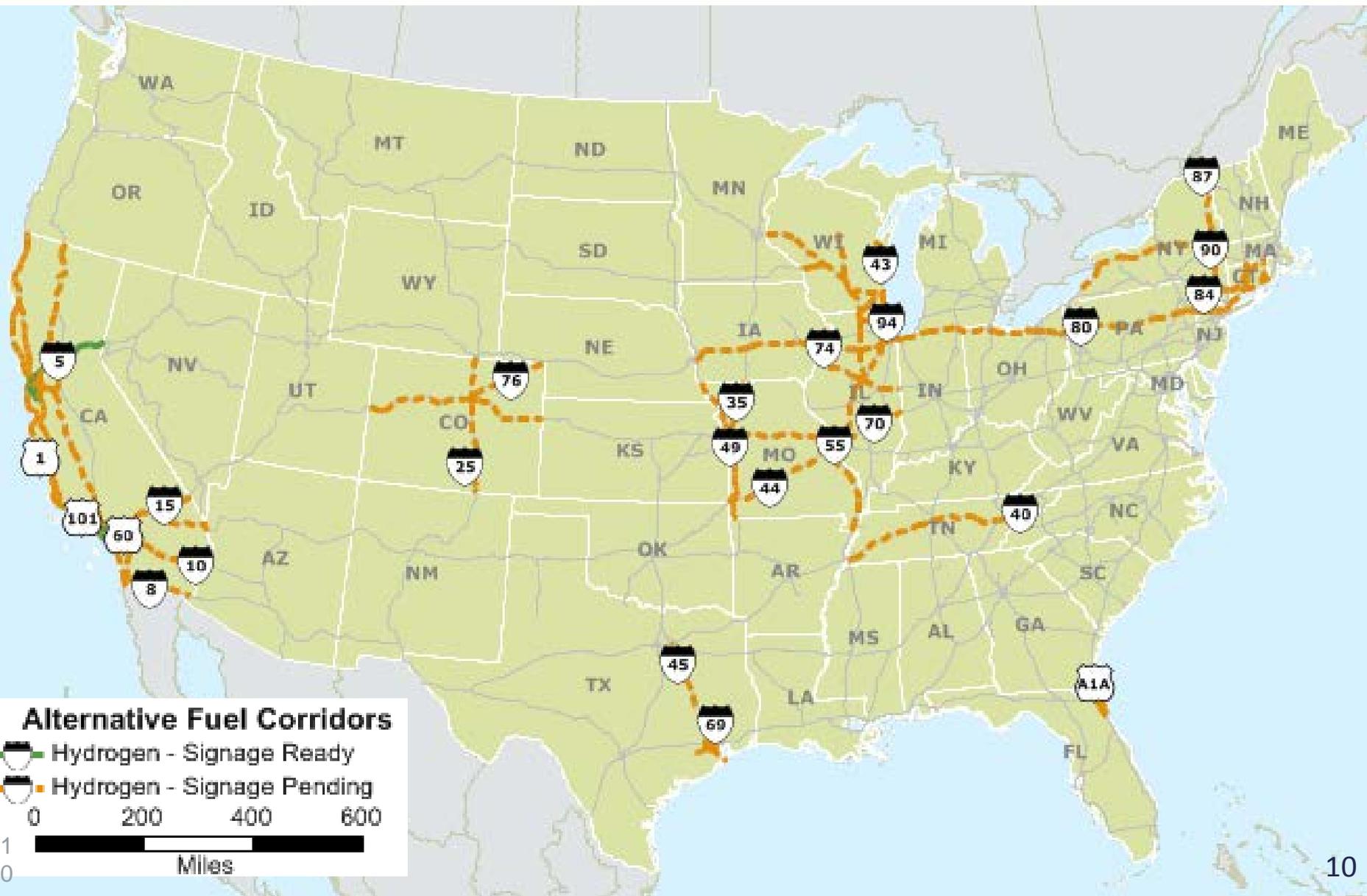
Propane Corridor Map



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Hydrogen Corridor Map



2017 Request for Nominations

❑ Process

- ✓ Defined in FHWA Request for Nominations (RFN) notice (released Sept. 22, 2017)
- ✓ Distributed through **FHWA Division Offices**
- ✓ Provides ability to nominate new corridors or add fuel types to existing corridors
- ✓ Due date is **November 30, 2017**

❑ Request for Nominations Posted AFC website at:

https://www.fhwa.dot.gov/environment/alternative_fuel_corridors/nominations/index.cfm



2017 Request for Nominations (con't.)

- ❑ Can be submitted by **ANY state or local official.**
- ❑ Focus is on **Interstate highways** but allows for a compelling case to be made for other highways.
- ❑ **State DOT** with jurisdiction over corridor must be aware and supportive of nomination.
- ❑ **Multi-state and regional** applications/approaches are encouraged.
- ❑ A **plan for signage** on the corridor is required.
- ❑ **GIS Shapefile** information:
 - ✓ Should be available from your State DOT
 - ✓ Additional guidance in RFN

2017 Request for Nominations (con't.)

- ❑ **Signage-ready** corridors should have 2-3 stations and be at least 150 miles in length – or entire length of corridor in a State, if less (final classifications will be made on a case-by-case basis).
- ❑ **Signage-pending** corridors – if no facilities, then must submit a plan/timeline for build-out.
- ❑ EV corridor nominations – encourages coordination with **Electrify America** on targeted Interstates.
- ❑ **Public and private sector coordination** – working with state and local agencies, Clean Cities Coordinators, and other stakeholders.
- ❑ Coordinate with state **freight plans and/or long-range transportation plans.**

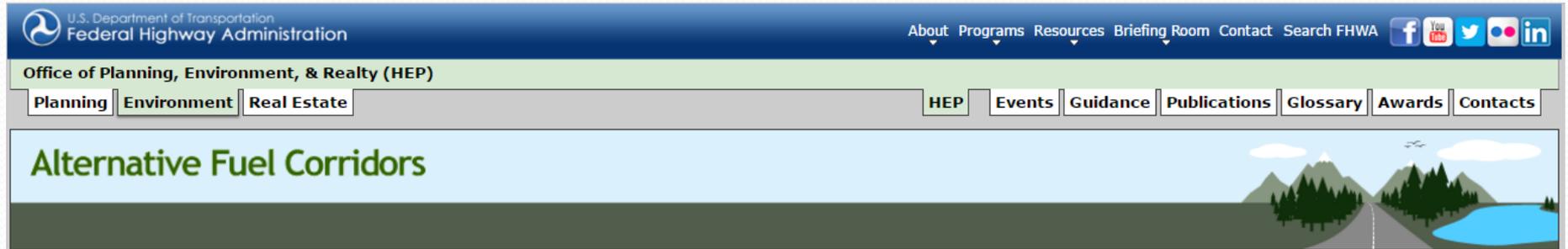
“Signage-Ready” Criteria for 2017 Nominations

EV	CNG	LNG	Hydrogen	Propane
DCFC only	150 miles between stations	200 miles between stations	100 miles between stations	150 miles between stations
50 miles between stations	5 miles from highway			
5 miles from highway	Public stations only	5 miles from highway	5 miles from highway	Public stations only
Public stations only (no Tesla)	Fast fill, 3,600 psi	Public stations only	Public stations only	Primary stations only

Benefits to Designating Corridors

- ❑ Provides a **planning exercise to prioritize future public and private funding/investment** for future corridor station development by identifying gaps along the corridor and/or opportunities to extend the corridor.
- ❑ Accelerate public interest and awareness through **national highway signage** branding.
- ❑ Opportunity to coordinate/collaborate with state and local officials who have Interstate highways that have been targeted for investment in the first 30-month cycle by **Electrify America** and other **VW funds**.
- ❑ **CMAQ funding priority** may be given to designated corridors for EV and CNG – Section 1114 of the FAST Act.

AFC Website

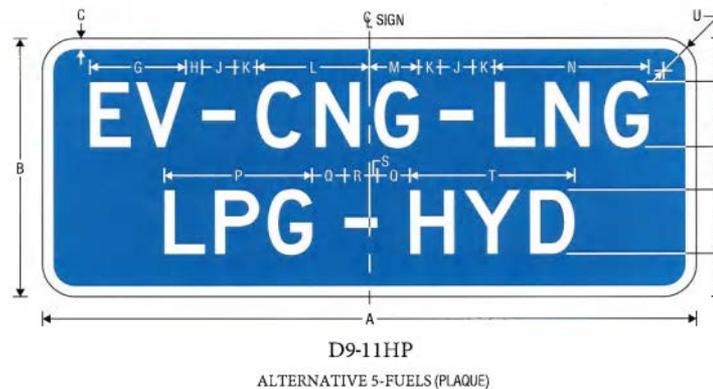


http://www.fhwa.dot.gov/environment/alternative_fuel_corridors/

- Frequently Asked Questions
- Interactive GIS maps for each fuel
- List of State DOT signage contacts
- MUTCD Memorandum – Signing for Designated Alternative Fuel Corridors
- “Sign Up” for Alternative Fuel Corridors Updates

Highway Signage

- ❑ MUTCD Memorandum – Signing for Designated Corridors
 - ✓ Provides guidance to State DOTs
 - ✓ First Corridor signs installed on I-94 and I-26
 - ✓ Some questions remain on General Service & Specific Service exit signage
 - ✓ FHWA is developing additional guidance (FAQs)



First Corridor Signs Installed



I-26 (South Carolina)

I-94 (Minnesota)



Other Alt Fuel Corridor Resources

- ❑ A set of **Frequently Asked Questions** has been developed and posted on the AFC web site.
 - ✓ Covers both the designation process and signage related questions

- ❑ On-going **presentations and assistance** for states and interested stakeholders

- ❑ Development & Implementation of 5 Regional **Alternative Fuel Convening's** in 2018/2019

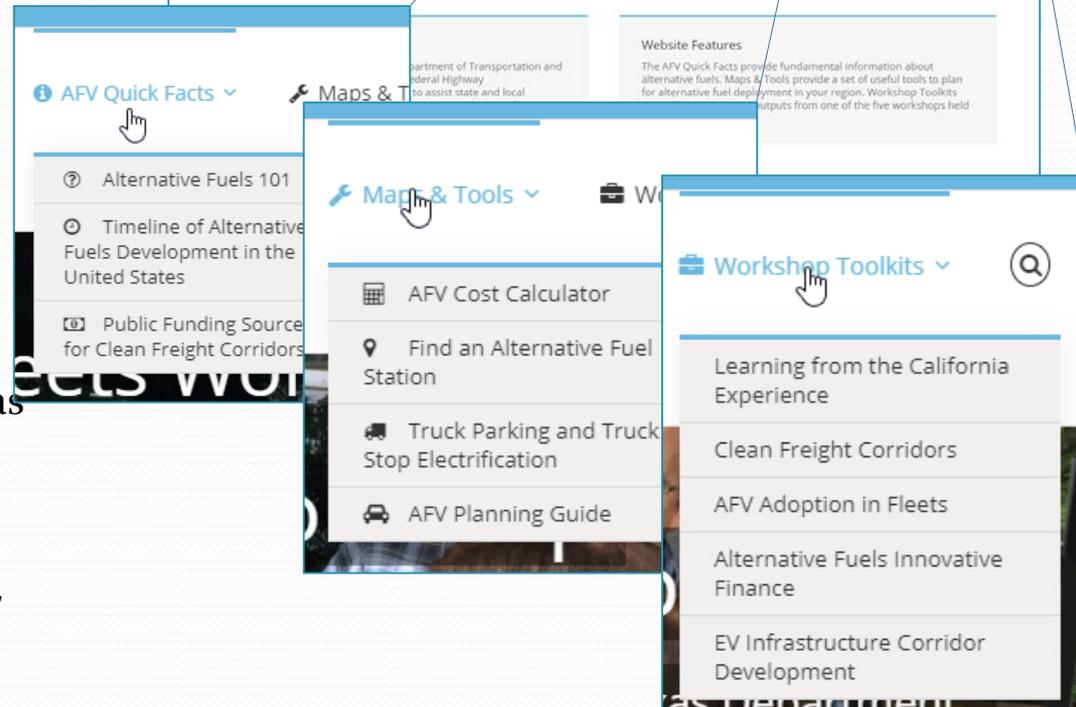
Alternative Fuels Pooled Fund Website

Website Overview:

- Accessible at <http://altfueltoolkit.org/>
- Tools such as interactive maps, a payback calculator, a planning guide, and more to help DOTs and MPOs accelerate alternative fuel vehicle deployment
- Five workshop toolkits each include a resource library, workshop summary report and presentations, and topic-specific materials such as fact sheets or case studies

Pooled Fund Overview:

- Participating State DOTs are CA, CT, NC, NY, OR, TX, VT, and WA
- ODOT is leading effort with FHWA as technical liaison
- Implemented five workshops to assist State DOTs and MPOs interested in accelerating the use of alternative fuels/vehicles and associated infrastructure



For More Information

DOT Alt Fuel Corridor Team Contact Information

Diane Turchetta

U.S. Department of Transportation
Federal Highway Administration
202-493-0158

diane.turchetta@dot.gov

Mike Scarpino

U.S. Department of Transportation
Volpe Center
617-494-3373

michael.scarpino@dot.gov

Stephen Costa

U.S. Department of Transportation
Volpe Center
617-494-3852

stephen.costa@dot.gov

Resources

FHWA Alternative Fuel Corridor website:

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

MUTCD Memorandum – Signing for Designated Alternative Fuel Corridors:

https://mutcd.fhwa.dot.gov/resources/policy/alt_fuel_corridors/index.htm

DOE/NREL Alternative Fueling Station Locator:

<https://www.afdc.energy.gov/locator/stations/>

Appendix - GIS File Submission Requirements

□ Nominated Corridor GIS Files

- ✓ Route Name
 - Primary corridor Route Name (I-10, U-95, S-99, C-56 & O-34)
 - Alternative Route Name, if any
 - Local Name, if any
- ✓ Length in miles
- ✓ State Abbreviation
- ✓ NHS: Yes or No
- ✓ Fuel Type and Designation Status
- ✓ GIS Coordinate System (such as NAD 1983)

Appendix - GIS File Submission Requirements (con't)

□ Nominated Corridor Fueling Station GIS Files

- ✓ All fueling stations within 5 miles off the nominated corridor with the following information:
 - Station Name
 - Coordinates: Longitude and Latitude
 - First or Last station
 - Address of the station
 - Mileage marker/milepost of the exit off the corridor highway;
 - Fuel(s) provided;
 - Station Operator/Owner name

HEPGIS Interactive Maps

<https://hepgis.fhwa.dot.gov/fhwagis/>

Electric Vehicle (EV)



Navigation
Tools



[Sources](#) [Legend](#) [Data](#) [Layers](#)

Alternative Fuel Corridors

- EV - Signage Ready
 - EV - Signage Pending
- 0 200 400 600
Miles

[Go to Layers to turn on Fuel Stations](#)

Legend
Panel

For information and comments about this web site, contact
Supin Yoder

Resources

- ❑ **HEPGIS “Download Data”:**
 - ✓ NHS Shapefiles
 - ✓ Alternative Fuel Corridor Shapefiles

- ❑ **DOE Alternative Fuels Data Center**
Download: https://www.afdc.energy.gov/data_download
 - ✓ Alternative Fuel Stations GIS files

- ❑ **GIS Contact:**
supin.yoder@dot.gov