2018 Alternative Fuels Corridor Request for Designation Nominations Webinar

November 14, 2018 - 1:00pm EST
Agenda

- AFC Program Overview
  - Results of Rounds 1 & 2
  - News and Updates

- 2018 / Round 3 Request for Nominations Process

- Alternative Fuels Data Center Station Locator and Corridor Tools

- Regional Alternative Fuel Corridor Convenings

- Q&A Discussion
Alternative Fuel Corridors
Round 3 - Request for Nominations

Diane Turchetta | U.S. Department of Transportation

U.S. Department of Transportation
Federal Highway Administration

Volpe Center
Advancing transportation innovation for the public good
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
Benefits of a National System

- Allows for inter-city, regional, and national travel using clean-burning fuels
- Addresses range anxiety
- Integrates with existing transportation planning processes
- Accelerates public interest and awareness of alternative fuel availability
Combined Results

- Designations:
  - 58 nominations
  - Includes portions/segments of 84 Interstates, along with 43 US highways/state roads
  - Comprise 44 states plus D.C.
  - Covers over 100,000 miles of the National Highway System (all fuels combined)
Updates and News

- Revised/updated FAQ’s on AFC website:

- CMAQ funding eligibility for AFC signage

- MUTCD Update:
  - https://mutcd.fhwa.dot.gov/mutcd_news.htm

I-26 (South Carolina)
Updates and News

- **MotorWeek segment**
  - [https://www.youtube.com/watch?v=QZhLFqTXb-g](https://www.youtube.com/watch?v=QZhLFqTXb-g)

- **TRB Webinar Recording:**

- **Three AFC Regional Convenings planned for 2019:**
Future of AFC Program

- Request for Nominations on an annual basis under life of FAST Act
- Possible inclusion in the next transportation reauthorization bill
- Enhanced coordination efforts with Clean Cities Program/NREL
- Enhanced collaboration with stakeholders including industry
2018 Request for Nominations

- Issued Round 3 request for nominations in October 5, 2018
- Distributed through FHWA Division Offices
- Nominations due the end of January 2019
- Designations made in spring 2019
- Some changes in shapefile submissions
- Request for Nominations posted on AFC website at:
Round 3 Request for Nominations

- 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 required:
  - Additional guidance in RFN
## Corridor-Ready Criteria for Round 3 Nominations

<table>
<thead>
<tr>
<th></th>
<th>EV</th>
<th>CNG</th>
<th>LNG</th>
<th>Hydrogen</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DCFC only</td>
<td>150 miles between stations</td>
<td>200 miles between stations</td>
<td>100 miles between stations</td>
<td>150 miles between stations</td>
</tr>
<tr>
<td></td>
<td>50 miles between stations</td>
<td>5 miles from highway</td>
<td>5 miles from highway</td>
<td>5 miles from highway</td>
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<tr>
<td></td>
<td>5 miles from highway</td>
<td>Public stations only</td>
<td>Public stations only</td>
<td>Public stations only</td>
<td>Public stations only</td>
</tr>
<tr>
<td></td>
<td>Public stations only (no Tesla)</td>
<td>Fast fill, 3,600 psi</td>
<td>Public stations only</td>
<td>Public stations only</td>
<td>Primary stations only</td>
</tr>
</tbody>
</table>
Round 3 Request for Nominations

- **Corridor-ready** corridors should have a minimum of 2 stations. Final classifications will be made on a case-by-case basis.

- **Corridor-pending** corridors – if no facilities, then must submit a plan/timeline for build-out.

- **EV corridor** nominations:
  - Will only consider corridors with DC Fast Charge infrastructure.
  - Tesla stations are excluded due to their proprietary status.
  - Encourage 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**.
Interface Between Previous Designations and Current Request for Nominations:

- If a corridor is extended beyond its starting or ending points, a formal designation proposal is **required** for the extension.

- If additional fuel(s) are proposed for a designation on an existing corridor, a formal designation proposal is **required** for the additional fuel(s).

- If the number of stations along a designated corridor changes (i.e. new stations being added or existing stations being closed), which results in the classification of the corridor being changed from corridor-pending to corridor-ready (or vice versa), a formal designation proposal is **not required**.

  - FHWA plans to update the status of Round 1 and 2 corridors when Round 3 is announced.

Round 3 Request for Nominations
Identifies the following **FHWA areas of interest** for nominations:

- States that have no corridor designations (pending or ready)
- States that have not submitted an application as a lead
- States that currently have existing Interstates/highways that are corridor-ready for one or more alternative fuels, but have not submitted a nomination
- Nominations that will complete the nation’s longest and heavily traveled highways for one of more alternative fuels. For example, I-95, I-10, I-80, I-40, I-35, I-65, I-70, I-81, I-90

Nominations that take into consideration the next fueling site over the state or international borders are encouraged.
NREL has developed resources for nominating corridors which provides station data and shapefiles by state and fuel type. Additionally, a prototype mapping tool to explore potential corridors by fuel is available

- https://www.afdc.energy.gov/corridors

To submit your **nominations** and **shapefiles**, please email Sara.Secunda@dot.gov and instructions will be provided on how to upload these files
For More Information

DOT Alternative Fuel Corridor Team Contact Information

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Resources

FHWA Alternative Fuel Corridor website:  
http://www.fhwa.dot.gov/environment/alternative_fuel_corridors/

MUTCD Memorandum – Signing for Designated Alternative Fuel Corridors:  

DOE/NREL Alternative Fueling Station Locator:  
https://www.afdc.energy.gov/locator/stations/
Alternative Fuels Data Center
Station Locator and Corridor Tools

Johanna Levene
November 14, 2018
Alternative Fuels Data Center

The premier information resource for alternative fuels and advanced vehicles

afdc.energy.gov
What does the AFDC provide?

- Interactive Tools
- Laws & Incentives
- Maps & Data
- Case Studies
- Publications
- Fuel Conservation
- Alternative Fuels, Vehicles, & Stations
- Fuel Conservation
- Alternative Fuels, Vehicles, & Stations
Alternative Fuel Stations

http://afdc.energy.gov/stations
Alternative Fuel Stations

Alternative Fuels Data Center

Data Downloads
To download data related to alternative fuels and advanced vehicles, follow the steps below.

Step 1. Choose data to download
Choose the dataset and file format you want to download.

- Dataset: Alternative fuel stations
- File Format: CSV (opens in Excel)

Read descriptions of the data included in the alternative fuel stations download.

Step 2. Share your information
Provide the following contact and usage information to download the data.

- First Name: Johanna
- Last Name: Levine
- E-mail Address: johanna.levine@email.gov
- How will you use the data? (optional): Demo
- Note: Required fields

If I have read and agree to the terms and conditions.
Alternative Fuel Stations

Alternative Fuels Data Center

Alternative Fueling Station Locator

Find alternative fueling stations in the United States and Canada. For U.S. stations, see data by state. For Canadian stations in French, see Natural Resources Canada.

Public Stations

Advanced Filters

92 stations
143 charging outlets

Filters chosen:
- Florida
- Electric
  - Types: DC Fast
  - Connectors/outlets: CHAdeMO, SAE CCS
- Access: Public
- Status: Available, Planned

Submit New Station

Use this form to suggest adding a station.

Required fields:
- First Name
- Last Name
- Email
- Phone

Available Fuel(s):
- Biodiesel (B20 and above)
- Compressed Natural Gas (CNG)
- Electric
- Ethanol (E85)
- Hydrogen
Goals for the Mapping Tools

Ease Nomination of Alternative Fuel Corridors

Plan Fueling Infrastructure Development
Resources for Nominating Corridors

- CSV downloads
- Shapefiles
- Interactive maps

afdc.energy.gov/corridors
Corridor Nomination Tools
Demo
Stations Layer

ArcGIS Electric Corridor Map

Legend
- Electric Stations (09/05/2018)
- Designated Corridors (06/12/2018)
  - Signage Ready
  - Signage Pending
- Potential Electric Corridors - Areas with enough stations to nominate new corridors or where a single station would lead to an extension of an existing corridor or a new corridor.

National Highway Network
Interstates
Potential Corridors

Liquefied Natural Gas (LNG) Corridor Map

Legend
- LNG Stations (09/05/2018)
- Designated Corridors (06/12/2018)
  - Signage Ready
  - Signage Pending

Potential LNG Corridors - Areas with enough stations to nominate new corridors or where a single station would lead to an extension of an existing corridor or a new corridor.

National Highway Network
Interstates
Potential Corridors

Legend

Propane Stations (09/05/2018)

Designated Corridors (06/12/2018)

- Signage Ready
- Signage Pending

Potential Propane Corridors - Areas with enough stations to nominate new corridors or where a single station would lead to an extension of an existing corridor or a new corridor.

National Highway Network
National Highway Network - Road Shields

Interstates

ArcGIS Propane (LPG) Corridor Map

Modify Map  Sign In
Future Mapping Tool
Future International Corridors
For more information about station information email johanna.levene@nrel.gov.

Resources

Station Locator: https://afdc.energy.gov/stations

Station Data for Corridors: https://afdc.energy.gov/corridors
Shapefile/Nomination Upload Instructions

- To submit your nominations and shapefiles, please email Sara.Secunda@dot.gov.

- An email invite will then be sent to the submitter to upload nominations and shapefiles to the Box.com directory for their state.

- The name of each file should include the submitter’s agency and the date. Ex: ElPasoMPO_111318. The files upload can be .zip files.

- If a submission is a corridor in more than one state, please indicate one state for uploading the file.

- If there is an issue with Box.com, please email Sara.Secunda@dot.gov for alternative upload instructions.
Box.com Directory
• Team to hold 5 regional convenings.
  • To Date: Midwest (MN), Southeast (SC)
  • Next Up: Northeast/Mid-Atlantic (CT/NY), West (CO/UT) and South (TX)

• Strengthen coordination b/w states, public and private partners.
• Evaluate regional priorities & needs, programs, and resources to expand corridors.
• Identify critical infrastructure gaps.
• Discuss a regional strategy to promote clean vehicle adoption and corridor growth.
• Foster partnership development.
Convening Planning Process

**Step 1:** Build Regional Partnership Planning Committee

**Step 2:** Evaluate Regional Priorities, Fuels Interests, and Infrastructure Needs

**Step 3:** Design Convening Program to Meet Partner Goals

**Step 4:** Coordinate Meeting Logistics and Partner Invitations

**Step 5:** Facilitate Alternative Fuel Corridor Convening

**Step 6:** Share Convening Outcomes/Next Steps through Webinar
Convening Results

MIDWEST – St. Paul, MN (June 12, 2018)
• 9 States: ND, SD, MN, WI, MI, OH, IL, IN, IA
• 52 stakeholders
• Fuels of Interest: EV, CNG and H2
• # of Designated Corridors: 26 (SD none)

SOUTHEAST – Charleston, SC (Sept. 25, 2018)
• 8 States: KY, TN, NC, SC, AL, MS, GA, & FL
• 45 stakeholders
• Fuels of Interest: EV, CNG, LNG and LPG
• # of Designated Corridors: 30 (MS none)
Upcoming Convenings: Next Steps

Establish Timeline
- April/May 2019: South (TX)
- May/June 2019: Northeast/Mid-Atlantic (CT/NY)
- July/August 2019: West (CO/UT)

Build Planning Committee
- FHWA Division Offices, State DOTs, Energy/Environmental Agencies, MPOs
- Clean Cities Coalitions, Nonprofits
- Fuel/Infrastructure Providers, Utilities

Breakout Groups
Panel Sessions
Presentations
Next Steps to Expand a National Network of AFCs

- **Corridor Funding**: Authorize a funding program to support infrastructure development and signage for FHWA Alternative Fuel Corridor program.

- **Regional Coordination**: Continue ongoing engagement and outreach with regional partnerships to ensure coordination, alignment of corridor priorities, and technical exchange.

- **Elevate Value Proposition**: Advance educational campaign amongst politicians, government and industry (dealers/fleets) on benefits/business case/availability of alternative fuel technologies and infrastructure.

- **Encourage Vehicle Incentives**: Provide voucher incentives for MD/HD alternative fuel vehicles (rural, urban & freight transportation).

- **Address Barriers**: Streamline Permitting Process, Building Codes, CMAQ Buy America Waiver, and Fuel Tax.