Alternative Fuel Corridors

NORTHEAST/MID-ATLANTIC AFC CONVENING
JULY 10, 2019
PROVIDENCE, RI

DIANE TURCHETTA | U.S. DEPARTMENT OF TRANSPORTATION
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
## Corridor-Ready Criteria

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Distance Between Stations</th>
<th>Distance from Highway</th>
<th>Station Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EV</strong></td>
<td>50 miles</td>
<td>5 miles</td>
<td>DC FC only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Public only</td>
</tr>
<tr>
<td><strong>CNG</strong></td>
<td>150 miles</td>
<td>5 miles</td>
<td>Primary only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Public only</td>
<td></td>
</tr>
<tr>
<td><strong>LNG</strong></td>
<td>200 miles</td>
<td>5 miles</td>
<td>Public only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydrogen</strong></td>
<td>100 miles</td>
<td>5 miles</td>
<td>Public only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Propane</strong></td>
<td>150 miles</td>
<td>5 miles</td>
<td>Public only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Primary only</td>
</tr>
</tbody>
</table>

- EV: Electric Vehicle DC FC only
- CNG: Compressed Natural Gas
- LNG: Liquid Natural Gas
- Hydrogen
- Propane

**Notes:**
- Public stations only (no Tesla)
- Fast fill, 3,600 psi
Combined Results
Rounds 1-3

- Designations….
  - 79 nominations
  - Includes portions/segments of 100 Interstates, along with 76 US highways/state roads
  - Comprise 46 states plus D.C.
  - Covers over 135,000 miles of the National Highway System (all fuels combined)
Federal Highway Administration
Regional Alternative Fuel Corridor Convenings

- Team to hold 5 regional convenings:
  - To Date: Midwest (MN), Southeast (SC), South Central (TX), and Northeast/Mid-Atlantic (RI)
  - Next Up: Intermountain (UT)
- 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

http://altfueltoolkit.org/regional-convenings/

3 Regional Convenings to Date

Midwest AFC
St. Paul, MN
June 12, 2018

Southeast AFC
Charleston, SC
September 25, 2018

South Central AFC
Arlington, TX
April 9, 2019
Highway Signage

- MUTCD Memorandum - Signing for Designated Corridors
  - Provides guidance to State DOTs
  - First corridor signs installed on I-94 and I-26
  - FHWA developed FAQs to address commonly asked questions (see AFC website)

I-94 (Minnesota)

I-26 (South Carolina)

Pictured from left, Louisiana Department of Natural Resources Secretary Tom Harris, Louisiana Department of Transportation and Development (DOTD) Secretary Shawn Wilson, Gov. John Bel Edwards and #LDEQ Secretary Chuck Carr Brown.
Future of AFC Program

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

- Alternative Fuels Corridor Deployment Plans
- Funding for three projects
- Up to 80k with 20% match
- Focus is on:
  - Interstates currently designated as “pending”
  - Public-private partnerships

Timeline:
- Applications due on September 9, 2019
- Recipients announced fall 2019
- Final Plans due on November 30, 2020
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/
Rounds 1-3 EV Map - Corridor Ready & Pending
Rounds 1-3 LPG Map - Corridor Ready & Pending
Rounds 1-3 H2 Map - Corridor Ready & Pending