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

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<thead>
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<th>Fuel Type</th>
<th>DCFC only</th>
<th>50 miles between stations</th>
<th>5 miles from highway</th>
<th>Public stations only</th>
<th>Fast fill, 3,600 psi</th>
<th>100 miles between stations</th>
<th>5 miles from highway</th>
<th>Public stations only</th>
<th>Primary stations only</th>
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<tbody>
<tr>
<td>EV</td>
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<td>CNG</td>
<td>150 miles between stations</td>
<td>5 miles from highway</td>
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<td>LNG</td>
<td>200 miles between stations</td>
<td>5 miles from highway</td>
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<tr>
<td>Hydrogen</td>
<td>100 miles between stations</td>
<td>5 miles from highway</td>
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<tr>
<td>Propane</td>
<td>150 miles between stations</td>
<td>5 miles from highway</td>
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</tbody>
</table>
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.
Combined Results
Rounds 1&2

- 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)
FY 2018 Request for Nominations

- Round 3 request for nominations - October 2018
- Distributed through FHWA Division Offices
- Nominations due the end of January 2019
- Designations made in spring 2019
- No change in designation criteria
- Some changes in shapefile submissions
Alternative Fuel National Corridors – 
*Hydrogen Round 1 & 2*
Alternative Fuel National Corridors – Round 1 & 2

Hydrogen Maps – California and Northeast
Partnering/Collaborations with Department of Energy

- **Vehicle Technologies Office/Clean Cities:**
  - Technical/Program support
  - Fund Clean Cities coalition support
  - Motorweek

- **National Renewable Energy Lab**
  - Maintains database of fueling stations
  - Develop corridor specific tools & resources

- **Fuel Cells Technologies Office**
  - Coordinating station deployment/corridor efforts on West Coast and Northeast
Alternative Fuels Data Center

afdc.energy.gov

Biodiesel  Electricity  Ethanol  Hydrogen  Natural Gas  Propane

The premier information resource for alternative fuels and advanced vehicles
Embeddable Application

afdc.energy.gov/corridors

1. Alternative Fuels Data Center
   The corridor mapping tool will be available as a third tab on the Alternative Fueling Station Locator.

2. Federal Highway Administration
   The corridor mapping tool can be embedded as a standalone application on the FHWA website or any other website.
Resources for Nominating Corridors

afdc.energy.gov/corridors

- Shapefiles
- Interactive maps
- CSV downloads
Interactive Map
afdc.energy.gov/corridors

Legend
Hydrogen Stations (09/05/2018)

Alternative Fuel Corridors (09/10/2018)

Potential Hydrogen 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.
Stations Layer - CA
afdc.energy.gov/corridors

Hydrogen Corridor Map

Legend

Hydrogen Stations (09/05/2018)

Alternative Fuel Corridors (09/10/2018)

Potential Hydrogen 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
Northeast, Southeast, & West Coast Diesel Collaboratives are promoting corridors for Medium – and Heavy-Duty Alternative Fuel Vehicles

- Regional Multistate Public and Private Partnerships
- Discuss Regional Air Quality & Transportation Priorities
- Facilitate Educational Webinars on Advanced Techs
- Evaluate Opportunities for Infrastructure Development
- Explore State, Federal and Private Funding Sources
- Develop Roadmaps to “Fill in the Infrastructure Gap”
- Regularly Convene Partners to Evaluate Progress
Federal Highway Administration
Regional Alternative Fuel Corridor Convenings

- Team to hold 5 regional convenings:
  - To Date: Midwest (MN), Southeast (SC), South Central (TX)
  - Next Up: Northeast/Mid-Atlantic (RI) and REV West (Salt Lake City)
- 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
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 and other Federal/State agencies
- Enhanced collaboration with stakeholders including industry
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 & Corridor Tools:  
https://afdc.energy.gov/stations/  
https://afdc.energy.gov/corridors

Motorweek Video Segment on Corridors:  
https://www.youtube.com/watch?v=QZhLFqTXb-g
ALTERNATIVE FUELS CORRIDOR

BACK-UP SLIDES
Rounds 1 & 2 EV Map for HI - Corridor Ready and Pending
Rounds 1 & 2 CNG Map – Corridor Ready and Pending
Rounds 1 & 2 LNG Map – Corridor Ready and Pending
Rounds 1 & 2 LPG Map – Corridor Ready and Pending

Map Layers
- Alternative Fuel Corridors
  - LPG - Corridor Ready
  - LPG - Corridor Pending

Miles
Prepared by FHWA

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Rounds 1 & 2 HYD Map – Corridor Ready and Pending