FHWA Alternative Fuel Corridors Designations Update

Granite State Clean Cities Stakeholder Meeting
September 22, 2017

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Agenda

- Alternative Fuel Corridors Program
  - Overview
  - Results of First Round
  - Resources
  - Future Activities
    - 2017 Request for Nomination
    - Benefits to Participating
FAST Act Section 1413: Alternative Fuel Corridor Designation

- 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)
Results of 1\textsuperscript{st} 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 \textasciitilde 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

<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>Public stations only (no Tesla)</td>
</tr>
<tr>
<td></td>
<td>150 miles</td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fast fill, 3,600 psi</td>
</tr>
<tr>
<td><strong>CNG</strong></td>
<td>200 miles</td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td><strong>LNG</strong></td>
<td>100 miles</td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td><strong>Hydrogen</strong></td>
<td>150 miles</td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td><strong>Propane</strong></td>
<td>150 miles</td>
<td>5 miles</td>
<td>Public stations only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Primary stations only</td>
</tr>
</tbody>
</table>
Website

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

- Interactive GIS maps for each fuel
- Report required under the FAST Act
- 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
  - Doesn’t answer all questions and cover all situations, such as General Service & Specific Service exit signage
  - FHWA is developing additional guidance (FAQs)
First Corridor Signs Installed

I-94 (Minnesota)

I-26 (South Carolina)
2017 Request for Nominations

2nd Round of the Corridor Designation Process

✓ Process defined in FHWA Request for Nominations notice.
✓ FHWA Division Offices will forward RFN to State DOTs/Planning Agencies.
✓ RFN to be provided to Clean Cities and other interest industry stakeholders
✓ RFN can also be downloaded from AFC website: http://www.fhwa.dot.gov/environment/alternative_fuel_corridors/
✓ Provides ability to nominate new corridors or add fuel types to existing corridors.
✓ Nominations due date is Nov 30th
2017 Request for Nominations (cont.)

2nd Round of the Corridor Designation Process

- Requires more corridor/station specific information be included in the nomination proposal, such as station addresses, first and last fueling station on the corridor, distances between stations, connector type for EVSE, and corridor map.
- Can be submitted by ANY state or local official.
- State DOT with jurisdiction over corridor must be aware and supportive of nomination.
- Multi-state and regional applications/approaches are encouraged.
- A webinar will be held to provide information on the nomination to stakeholders and answer questions.
- A set of Frequently Asked Questions will be developed and will be posted on the AFC web site.
2017 Request for Nominations (cont.)

2nd Round of the Corridor Designation Process

✔ Focus is on Interstate highways but allows for a compelling case to be made for other highways
✔ Only DCFC sites will be considered for EV Corridors this round (i.e. no Level 2 sites).
✔ Strongly encourages EV corridor nominations from state and local officials who have Interstate highways within their states that have been targeted for investment in the first 30-month cycle by Electrify America.
✔ Requires a description of the plan for signage on the corridor

I-26 (South Carolina)
Benefits to Designating Corridors

- Create and expand a state/regional network of alternative fueling and charging infrastructure that contributes to a national highway system of corridors.

- 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.

- Take advantage of national signage branding to help catalyze applicant and public interest.

- Encourage multi-State and regional cooperation and collaboration.
Benefits to Designating Corridors

- **Promote the activities** undertaken locally/regionally to address environmental and energy security goals by increasing the adoption of alternative fuels.

- Bring together a consortium of stakeholders to promote and advance alternative fuel corridor fueling options in conjunction with the DOE’s Clean Cities Program.

- Provides an opportunity to coordination/collaboration between state and local officials who have Interstate highways within their states 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.
For More 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/