Clean Corridors #1: Where We Stand
2017 Roadmap & Partner Updates

Northeast Clean Freight Corridors Workgroup
May 25, 2017
2:00 – 3:30 p.m. EDT

Pictures Above:
FHWA Designated AFV Corridors
Agenda

- Welcome & Overview
- Where We Stand & 2017 Roadmap
- Clean Corridor Partner Updates
  - **FHWA AFV Corridor Designations:** Diane Turchetta, FHWA
  - **I-80 Corridor:** Marcy Rood & Marianne Mintz, Argonne National Lab
  - **Transportation Climate Initiative/Vermont:** Matthew Goetz, Georgetown Climate Center
  - **New York State Dept. of Transportation:** Abby Swaine, U.S. EPA Region 1
  - **NYMTC Regional Freight Plan:** Gerry Bogacz, NYMTC
  - **Connecticut Dept. of Transportation:** David Elder, CDOT
- Workgroup Discussion
Clean Corridors: Where We Stand & 2017 Roadmap
2016 Clean Freight Corridors Workgroup Roadmap

1# WG Kick Off
February 18, 2016
Importance for Clean Freight Corridor Coordination

2# Funding Clean Corridors
March 29, 2016
Incentivizing Partnerships for Clean Freight Corridors

3# Regional Freight Flows
April 28, 2016
Understanding Freight Flows, Bottlenecks and Areas of Priority

4# Defining Clean Corridors
May 26, 2016
Clean Corridor Definitions for State/Regional Freight Plans

5# Designating Clean Corridors
June 23, 2016
Review Designation #1413 Application Process/Support Regional/NE States Nomination

6# Part II – Alt. Fuel Corridor Applications
July 28, 2016
#1413 RFI Review and Existing and Needed Alt. Fuel Infrastructure

7# Hosts Discuss Value Clean Corridors and Partnerships
September 29, 2016
Meeting Hosts share goals and expected outcomes.

8# Clean Cities Role for Clean Corridors
October 28, 2016
Clean Cities Coordinators outline roles and opportunities to advance clean freight corridors.
NECFC & Clean Cities Letters of Support CT, VT/TCI and NY
Alternative Fuel Corridor Applications
Clean Corridors Meeting
Nov. 3-4, 2016

Greg Nadeau, Administrator, FHWA

Diane Turchetta, Transportation Specialist, FHWA

160+ in Attendance
2017 NECFC Strategy

- Leverage learnings from 2016 Roadmap discussions and Troy Meeting to set priorities for **2017 Roadmap**.
- **Identify new partners** to bring into the discussion.
- **Raise public awareness.** Identify opportunities to receive buy-in. Engage our public & private champions, who are they, how can they help?
- **Position VW funds for Clean Corridors** and other NEDC goals by coordinating with state beneficiaries.
- Create **Funding Timeline** and begin engaging partners to develop project partnerships and be ready for submission.
2017 NECFC Strategy continued...

- Present technologies that are best suited for specific transportation niches – Ex: Ideal environments for electrification: warehouses, ports, urban centers, etc.

- Define & identify “Hot Spots” – understand freight movement/needs through these communities, who are key players, ideal projects/techs, & resources needed.

- Focus attention on Idle Reduction at Truck Stops and supporting Trucker Needs and Truck Stops. Engage their participation/transition to cleaner alternatives.
Filling in the Infrastructure Gap – Continue promoting FHWA Alt. Fuel Corridor Designations. How do we bridge the infrastructure gap along/between corridors to enable advanced techs.

Prepare/begin planning for 2017 NEDC Partners Meeting in September. There may be good synergy b/w topics related to NEDC and Clean Corridors effort.

Similar to 2016, 2017 Roadmap discussions lead us to September Partners Meeting.
2017 NECFC Workgroup Roadmap

1# Clean Corridors: Where We Stand, 2017 Roadmap & Partner Updates
May 25, 2017

2# Gaseous and Liquid Alternative Fuel Technologies and Infrastructure
June 22, 2017

3# Electric-Powered Trucks & Intermodal Idle Reduction Technology & Infrastructure
July 27, 2017

4# Priority Locations & Facility Types for Truck and Intermodal Reduction and Alternative Fueling
August 24, 2017

5# Setting the Stage for NEDC Partners Meeting – “Filling the Infrastructure Gap”
September 7, 2017

2017 NEDC Partners Meeting
September 25&26, 2017 TENTATIVE

NORTHEAST DIESCOLLABORATIVE FOR SUSTAINABLE TRANSPORTATION, GOODS MOVEMENT AND CONSTRUCTION
Clean Corridors: Partner Updates
NE Clean Freight Corridors Webinar
May 25, 2017
Diane Turchetta

ALTERNATIVE FUELS CORRIDOR
Initial Process

- 34 nominations received – separated into two categories:
  - Signage-ready – sufficient facilities on the corridor to warrant highway signage;
  - Signage-pending – at this time, insufficient facilities on the corridor to warrant highway signage

- What it means to be a designated alternative fuel corridor.

- Decisions based on information from DOE’s alternative fuel station locator database.

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

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

- Corridors that may lead the way.
  - Fuels and applications


Next Steps

- Outreach
  - Meetings with industry
  - First round nominations webinar (March 7, 2017)
  - Public webinar (after release of 2017 FR Notice)

- Future designation process
  - Process to be defined in follow-up *Federal Register* Notice
  - Provides ability to nominate new corridors or add fuel types to existing corridors
  - Will provide more specific requirements and longer time to develop nomination packages

- Corridor nominations
  - Can be submitted by **ANY** state or local official
  - State DOT with jurisdiction over corridor must be aware and supportive of nomination

- Collaboration with the US Department of Energy
  - Continued support from Clean Cities Program/Coalitions & DOE National Labs
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
- Materials from March 7 webinar/handout
- “Sign Up” for Alternative Fuel Corridors Updates
Contact Information

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I-80 Corridor Update

Marcy Rood and Marianne Mintz
Energy Systems Division
Argonne National Laboratory
U.S. Major Freight Corridors

Figure 1. Major Freight Corridors in the United States, 2011
(http://ops.fhwa.dot.gov/freight/freight_analysis/nat_freight_stats/mjrfreightcorridors.htm)
Figure 2. Intermodal Terminals and Ports Served by the I-80 Mid-America Corridor (from page 2 of The Mid-America Alternative Fuel Corridor, the I-80 designated corridor application)
Signage Ready
I-80: NJ, PA, OH, IN, IL, IA, NY

- **EV:** I-80: From Manhattan to Budd Lake, NJ; from Streetsboro, OH to Elyria OH; from South Bend, IN to Joliet, IL; and, from Davenport IA to Iowa City, IA.

- **CNG:** I-80: From DuBois, PA to Brook Park, OH; from South Bend, IN to Davenport, IA; and, from Des Moines, IA to NE border.

- **LPG:** I-80: From Clarion, PA to Columbia Station, OH and from Dolton, IL to Morris, IL.
Transportation & Climate Initiative
Regional EV Corridors

Northeast Clean Freight Corridors Workgroup

May 25, 2017

Matthew Goetz
Georgetown Climate Center
TRANSPORTATION & CLIMATE INITIATIVE
Of the Northeast and Mid-Atlantic States

- 11 Northeast and mid-Atlantic states and D.C.
- State energy, environment, and transportation agencies
- Clean vehicles & fuels, emissions reduction policies, sustainable communities, freight, and resilience
Northeast EV Corridor Nominations

- All TCI jurisdictions nominated corridors, including multi-state regional EV corridor
- Regional letter of support endorsed by all 12 TCI jurisdictions
Federal EV Corridor Designation

Electric Vehicle Corridors

**Signage-Ready**
- Includes DCFC and Level 2
- EVSE at least every 50 mi.
- <5 miles from highway
- Public stations

**Signage-Pending**
- Additional infrastructure needed to meet criteria
Opportunity for Regional Coordination

- More than 2500 miles of EV corridors designated in the region
- New infrastructure investments
- Potential inflection point for vehicles and charging
- Consumer awareness from highway signage
Investment by Automakers and EVSE Providers

BMW, VW and ChargePoint complete East and West Coast charging corridors
95 NEW STATIONS COVER THE MOST HEAVILY TRAVELLED PORTIONS OF THE TWO COASTS
SEPTEMBER 19, 2016

Electric-car owners still suffering from range anxiety will be relieved to hear that most of the left and the right coasts of the country are now fully stocked with charging stations. BMW, Volkswagen and ChargePoint have just completed a network of DC fast chargers connecting Portland and San Diego on the West Coast, and Washington, D.C., and Boston on the East Coast.

A total of 95 chargers were installed as part of the companies’ Express Charging Corridors, strategically in metro areas to enable detours to comply with state and federal laws and regulations. Sonoma, with the overlap of the two networks, is therefore, a perfect test case.

Nissan and EVgo to build EV fast-charging corridor on the east coast: 50 kW (pre-wired for 150 kW)

FAST-CHARGE ARC
Connecting Boston to Washington D.C.
Coming Fall 2017

GEORGETOWN CLIMATE CENTER
A Leading Resource for State and Federal Policy
**Volkswagen Settlement**

**EV Infrastructure Investment**

**EV Infrastructure Opportunity:**

- **Electrify America** (ZEV Investment)
  - $2 billion total investment
  - EV infrastructure along corridors and in cities
  - Consumer education & access

- **Mitigation Trust** (State fund)
  - $2.9 billion state administered
  - NOx reductions
  - Up to 15% on EV infrastructure
Utility Investment in EV Infrastructure

Avista’s Electric Vehicle Charging Program

SDGE

POWER YOUR DRIVE

nationalgrid

Utility Distribution Network
Utility Pad Mounted Transformer
Meter
Panel
Conductor (Boring/Trenching)
EV Charger
Electric Vehicle

GEORGETOWN CLIMATE CENTER
A Leading Resource for State and Federal Policy
TCI Region EV Corridor Analysis

• Engage state and utility experts and build on existing resources
  – National Renewable Energy Laboratory
  – West Coast Electric Highway/Oregon DOT
  – PG&E’s DC Fast Charge Siting Tool

• Improve understanding of existing and proposed Fast Charging infrastructure along corridors

• Identify opportunities for planning and coordination
Infrastructure Gap Analysis & Planning

Online Interactive Map of Potential DCFC Site Hosts

- Interactive Map shows 14,416 sites in the top 300 ranked bubbles based on highest future unmet charging demand and high traffic corridor locations (no user inputs)
- Interactive Map provides raw inputs (14,416 site characteristics) to the Micro-Siting Tool, which allows DCFC developers to identify sites based on priorities

2025 Estimated Plug Counts

- Work L1
- Work L2
- Public L1
- Public L2
- Public DCFC

[Graph showing estimated plug counts for different types of charging locations]
TCI Region EV Corridor Analysis

- Analysis of existing and proposed DC Fast Charging
- Identify key gaps along corridors
- Parameters to determine priority locations for additional infrastructure investment
Next Steps and Opportunities for Engagement

- Technical analysis on current state of charging infrastructure along corridors
- July 2017 – early results from analysis
- Fall 2017 – potential webinars and meetings to share analysis results and discuss corridor build out
For inquiries, please contact

Matthew Goetz
202-661-6674
goetz@georgetown.edu
NYSDOT Alternative Fuel Corridor Update

Abby Swaine, SmartWay & Freight
U.S. Environmental Protection Agency, Region 1
NY Designated Corridors & Segments

- **EV: I-87**: From Lake George, NY to Manhattan. **I-90**: From PA/NY border to Bowmansville; from Syracuse to Utica; and, from Albany to MA border. **I-95**: From NY/CT border to NY/NJ border (Covered by Matt under TCI)  **I-84**: From NY/CT border to Middletown NY.

- **CNG: I-90**: From PA/NY border to MA border. **I-87**: From Saratoga Springs to Manhattan.

- **LPG: I-90**: From Buffalo to West Henrietta.
Interstates, Parkways, Freight Corridors and Other Significant Corridors, Alternate Fuel Sites Within Three Miles, and the NYSDOT Roads with AADT >= 5K Within Three Miles

Alternate Fuel Site
- CNG (42)
- ELEC (617)
- LPG (6)
- Other Alternate Fuel Locations Outside Three Mile Buffer (68)
Application Highlights

- 670 public fueling stations on nominated corridors, as of summer 2016.
- 85% of EV facilities w/in 2 mi of each other.
- Sufficient CNG for whole state soon.
- NYSERDA: 400 more EV level 2 facilities by ~end of 2017; most on corridors. Created EV purchasing collaborative and plug standards.
- Focus: 5 metro areas on I-90 adding EV.
- NY DEC: more muni EV & hydrogen.
- Existing commercial truck stops: prospect for alt fuels.
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NYMTC Regional Freight Plan

Gerry Bogacz, Planning Director
New York Metropolitan Transportation Council
CDOT Alternative Fuel Corridor Update

David Elder, Supervising Transportation Planner, Office of Strategic Planning & Projects, Bureau of Policy & Planning

Connecticut Department of Transportation
Signage Ready Corridors
Connecticut

EV Charging Map, US

Choose a fuel type below.
Signage Pending Corridors
Connecticut

Hydrogen Refueling Map

Choose a fuel type below.

EV Charging, US  EV Charging, Maui, HI  EV Charging, Oahu, HI  Hydrogen  Propane  CNG  LNG
Propane Refueling Map

Choose a fuel type below.

- EV Charging, US
- EV Charging, Maui, HI
- EV Charging, Oahu, HI
- Hydrogen
- Propane
- CNG
- LNG
Signage Pending & Ready Corridors
Connecticut

Compressed Natural Gas Refueling Map

Choose a fuel type below.

- EV Charging, US
- EV Charging, Maui, HI
- EV Charging, Oahu, HI
- Hydrogen
- Propane
- CNG
- LNG
Signage Pending Corridors
Connecticut

Liquid Natural Gas Refueling Map

Choose a fuel type below.

EV Charging, US  EV Charging, Maui, HI  EV Charging, Oahu, HI  Hydrogen  Propane  CNG  LNG
Signage Ready - Connecticut


- **CNG**: I-95: From RI border to NY border. I-91: From MA border to New Haven

- **LPG**: I-84: From NY border to MA border.
CNG, LNG & Propane

- Propane school buses: 300; soon to be 500. Additional stations near interstates?
- LNG: one station serving 22 Class 8 trucks.
- CNG: several stations near I-91 and I-95 serving taxis, municipal vehicles and refuse trucks.
- More near-term demand from refuse trucks for LNG and CNG.

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<th>Existing Fueling Station Locations</th>
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<th>CNG/LNG/Propane</th>
<th>Hydrogen</th>
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<td>Inside Corridors</td>
<td>1226 (89%)</td>
<td>214 (87%)</td>
<td>20 (91%)</td>
<td>1 (100%)</td>
<td>1461 (89%)</td>
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<td>Outside Corridors</td>
<td>153 (11%)</td>
<td>32 (13%)</td>
<td>2 (9%)</td>
<td>0 (0%)</td>
<td>187 (11%)</td>
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<td>Total</td>
<td>1379</td>
<td>246</td>
<td>22</td>
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Workgroup Discussion
**Participant Questions/Comments:**

- **Comment:** Tesla is coming out with an all-electric Semi-Truck in September 2017.

- **Question #1:** Does signage ready vs. signage pending make a difference for VW from their EV infrastructure perspective?

  - **Answer #1:** VW used FHWA’s alternative fuel vehicle corridor analysis to support its strategy/planning. Not sure if the signage ready vs. pending status was considered for planning purposes.

- **Question #2:** How does the proposed federal budget affect the FHWA Alternative Fuel Corridor Designation program under the FAST Act?

  - **Answer #2:** The FHWA Alternative Fuel Corridor Designation program does not include funding under the FAST Act. Currently FHWA is moving forward with the program with the intentions to solicit applications for corridor nominations through the Federal Register mid-late August 2017.
Question #3: Is there a deadline for the next round of FHWA Alternative Fuel Corridor Designation applications?

Answer #3: FHWA received feedback that 30 days was not enough time to prepare/complete an application. The next round will consider a 60–90 day period for application submission.

Comment/Question: Seek clarification on status of NY’s EV infrastructure (station every 2 miles (what region/city?).

Question #4: Please provide information on the reference to the relaxation of prohibition of commercial activity at rest areas (Title 23).

Answer #4: The 2018 budget includes a proposal to do away with prohibition of commercial activity at rest areas with interests of privatization.
Participant Questions/Comments:

- **Question #5:** Will biodiesel be included as an eligible fuel under the FHWA Alternative Fuel Corridor Designations application?
  - **Answer #5:** At this moment, there is no indication that biodiesel will be included.

- **Question #6:** Do we have apps that link to EV stations so that people know of charging availability?
  - **Answer #6:** NREL has a website that is currently being updated by Clean Cities Coalitions that provide location of alternative fuel stations including EVSE. [Alternative Fuels Data Center - https://www.afdc.energy.gov/locator/stations/]
    - ChargePoint and PlugShare also have apps that detail charging availability via through user accounts.

- **Question #7:** What is the tentative date and location of NEDC Partners Meeting?
  - **Answer #7:** September 25 & 26/New Jersey Institute of Technology
**Participant Questions/Comments:**

- **Question #8:** Is shore power for e-trucks at distribution centers adjacent to highways apart of the NECFC effort?

- **Answer #8:** Yes, the NECFC is looking for opportunities to reduce emissions/improve the movement of freight through alternative fuel vehicles and idle-reduction technologies at ports, railways, intermodal facilities, warehouses, etc. all that comprise of/align with freight corridors/transportation network.
Questions for Consideration:

- What information, coordination or legwork do the Northeast alt fuel corridor efforts need in order to advance?
- How could the NECFC help?
Questions for Consideration:

- For present and approaching funding opportunities (state/federal DERA, VW, other?), is there an unmet need to coordinate across states to generate priorities and foster proposals?
Questions for Consideration:

- Are the needs of freight carriers for alt fuels and low-idle layover facilities being addressed in these Alt Fuel Corridor efforts?
  - If not, are they being addressed differently (e.g., through state freight plans)?
  - If so, how are the two efforts harmonizing?
Immediate Strategies

Infrastructure Improvements

- Keep freight network assets in a state-of-good-repair
- New truck stops and parking areas on primary truck routes
- Upgrade rail lines to the 286K standard and double-stack
- “Shore power" at rail terminals and truck stops
- Ensure that distribution centers linked efficiently to rail
- Identify and preserve existing rural and industrial sites for warehousing and distribution development
- Complete streets in urban areas that accommodate freight
Looking at the planned 2017 NECFC webinar series, what subtopics and speakers should be included?

- **June 22** - Deep Dive: Gaseous and Liquid Alternative Fuel Technologies & Infrastructure for Trucks.
- **July 27** - Deep Dive: Electric-Powered Truck & Intermodal Idle Reduction Technology & Infrastructure.
- **Aug 24** - Priority Locations & Facilities for Truck & Intermodal Idle Reduction and Alternative Fueling.
- **Sept 7** - Setting the state for fruitful discussions on “Filling the Infrastructure Gap” at our Fall meeting.
Contact Us

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