

Northeast Clean Freight Corridors Workgroup #5 Designating Alternative Fuel Corridors

Thursday, June 23, 2016
2:00 p.m. – 3:30 p.m. EDT
Northeast Diesel Collaborative



Agenda

- Welcome & Overview
- Progress Against Workgroup Roadmap
- Save the Date: Nov. 2 – 4 NE Clean Freight Corridors Workshop
- Today's Topic: #5 Designating Alt. Fuel Corridors
 - **Quick Recap:** Lessons Learned from Webinars #1 – 4
 - **The Mechanics:** Preparing for a Corridor Designation Application
 - **Draft Language:** Partner Support for Regional Corridor Goals
- Partners' Input and Workgroup Discussion

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

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

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

7# Clean Corridor Planning
August 25, 2016
Making the Clean Corridor
Connections for DOTs, MPOs
and Multi-Modal Partners

**6# Clean Infrastructure
and Equipment**
July 28, 2016
Existing and Needed Alt. Fuel
Infrastructure

**Clean Freight Corridors
Workshop**
November 2 – 4, 2016
RPI, Troy, NY



SAVE THE DATE

NE Clean Freight Corridor Workshop

November 2 – 4, 2016

Location: Rensselaer Polytechnic Institute (RPI), Troy, NY

- Close to Albany
- Accessible by Train and Airport
- Capacity for 150 people

Structure: Day and Half Program

- Arrive Wednesday Afternoon (Nov. 2)
- Full Day NECFC Workshop on Thursday (Nov. 3)
- Half Day FHWA Pooled Fund Workshop (Nov. 4)

Program Development: Key Planning Team & WG Participation

Sponsorship Opportunities are Available: Tech Displays

- Sponsorship Invite coming out soon!

Today's Workgroup Objectives

1. Revisit key outcomes from Webinars #1 – 4
2. Support Workgroup members' individual applications for FHWA Alt Fuel Corridor Designation.
3. Provide draft language promoting Northeast Clean Freight Corridors that state/local agencies can use in their Designation applications.
4. Identify candidate Northeast Alt Fuel Corridors for Workgroup consideration.



Quick Recap:

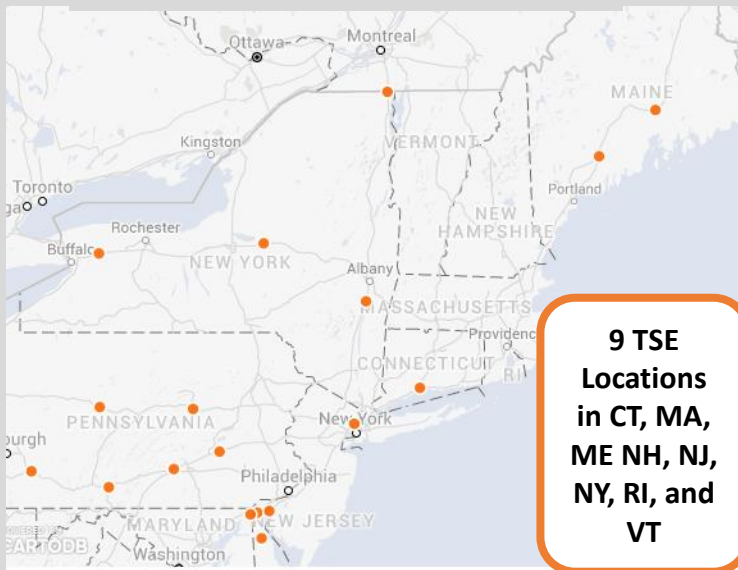
Lessons Learned from Webinars #1 – 4

Webinar 1 – February 18th – Kick-Off

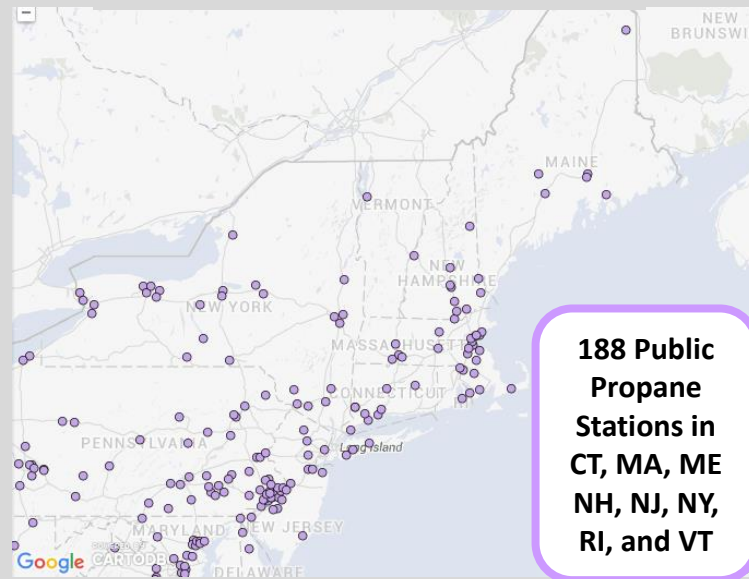
- New workgroup of the Northeast Diesel Collaborative.
- NEDC Partners Meeting Nov 2015 called for Clean Freight Corridors initiative.
- NECFC Goals, Objectives & Stakeholders.
- Supporting voices: FHWA, NY MTC, I-95 Corridor Coalition, NY Clean Cities, MARAD & Massport.



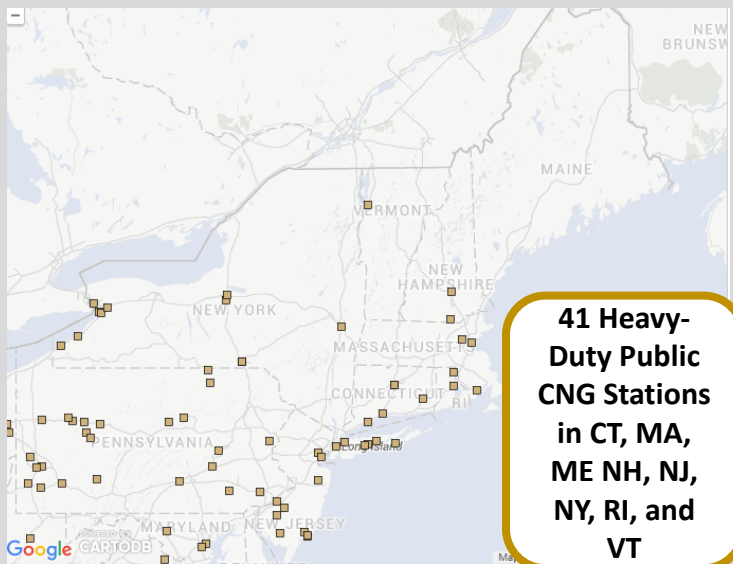
TSE



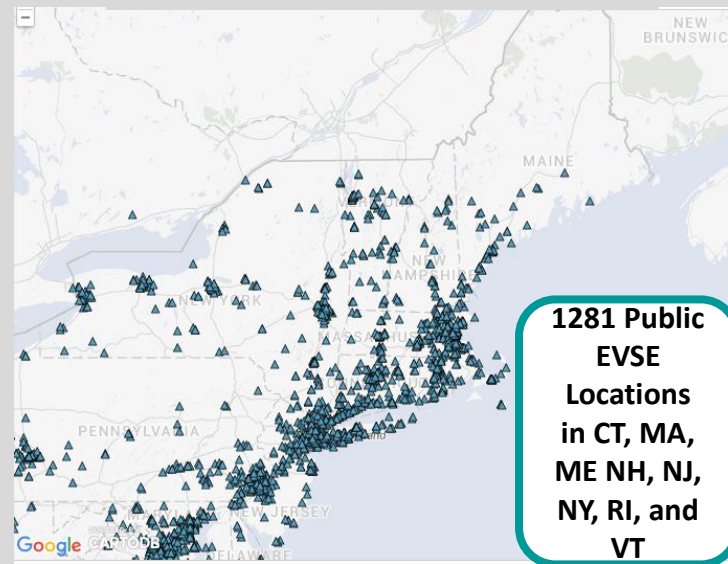
Propane



CNG/LNG



Public EVSE



Webinar 2 – March 29th – Funding

- U.S. DOT FASTLANE and TIGER Grants
- U.S. EPA DERA Grants
- U.S. DOT Maritime Administration



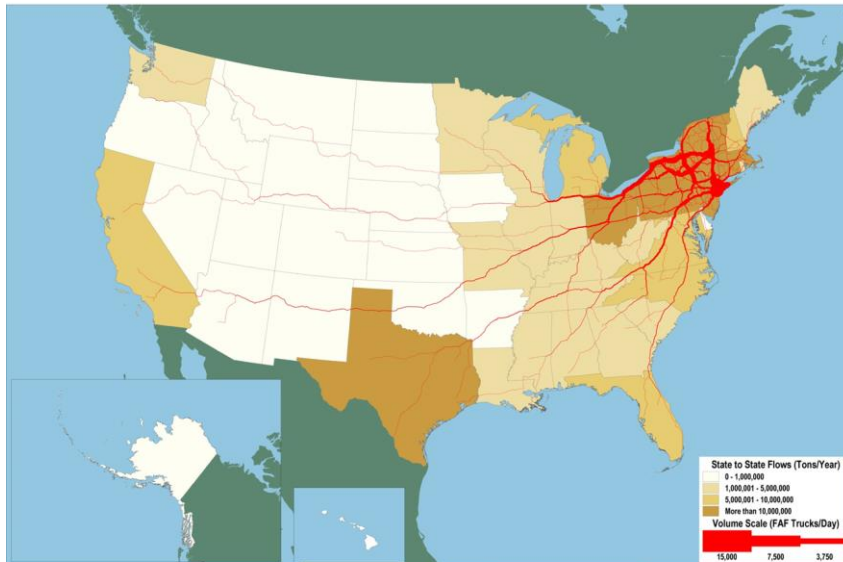
National Clean Diesel Campaign



Webinar 3 – April 28th – Freight Flows

- FHWA: National & Regional Freight Trends & Modes
- I-95 CC & Cambridge Systematics: Freight Performance Measures, Corridors & Supply Chains

Major Flows by Truck To, From and Within New York: 2010

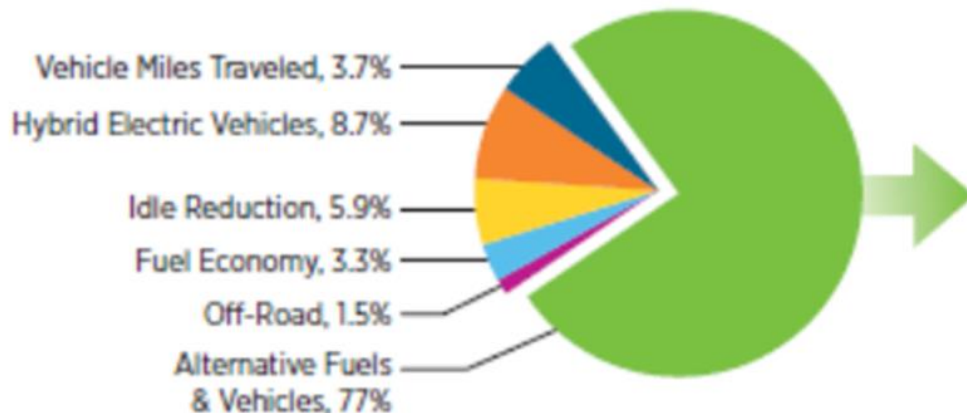


Note: Major flows include domestic and international freight moving by truck on highway segments with more than twenty five FAF trucks per day and between places typically more than fifty miles apart.
Source: U.S. Department of Transportation, Federal Highway Administration, Office of Freight Management and Operations, Freight Analysis Framework, version 3.4, 2012.

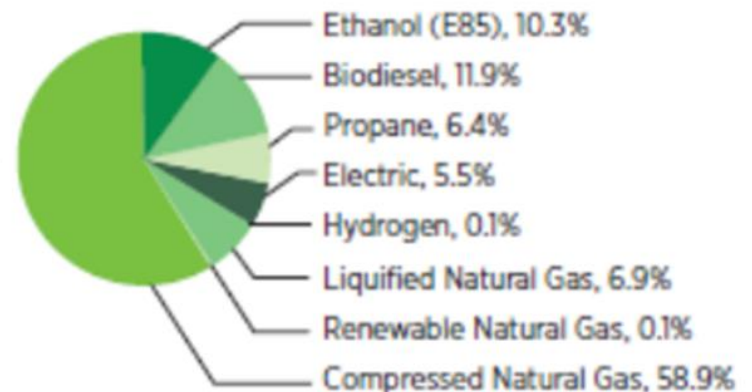
Webinar 4 – May 26th – Defining Clean Corridors

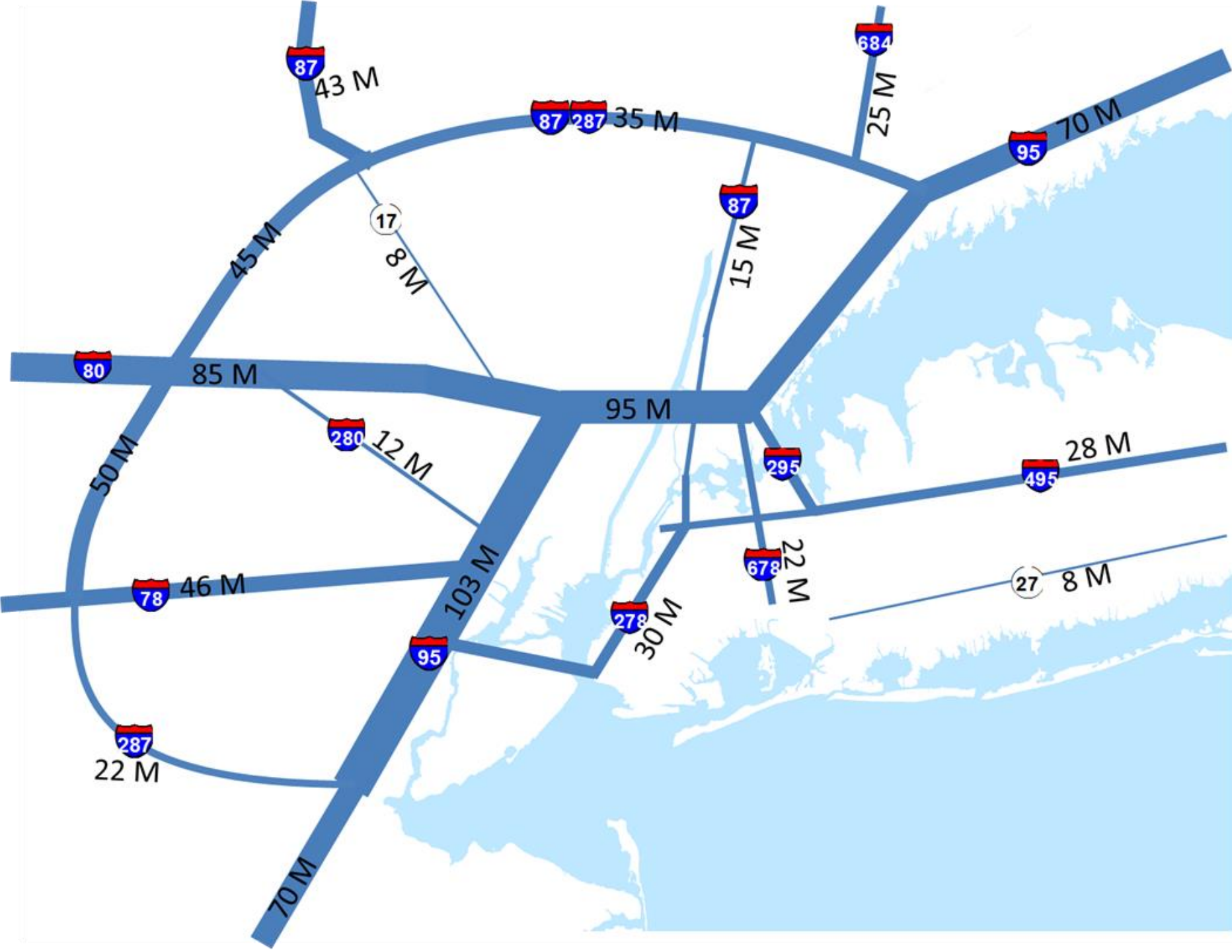
- NYMTC: Regional Freight Plan
- CARB: CA Sustainable Freight Action Plan
- FHWA: FAST Act Section 1413 Webinars
- Discussion: Northeast perspectives

Clean Cities 2014 Petroleum Savings by Technology Type



Breakdown of Petroleum Savings by Vehicle Type







The Mechanics: Preparing a Designation Application

Mechanics of Designation

What Components are Needed?

- Difficult to speculate without Federal Register Notice.
- Some prior/possible examples:
 - MARAD Marine Highways
 - National Highway Freight Network (NHFN)

Corridor Description:

- # miles/lane miles in National Highway Freight Network (NHFN)
- Direction (N/W, S/E etc.)
- Beginning and end points
- Serving what metro areas/rural areas
- Population densities

Mechanics of Designation

Continued...

System Attributes:

- Significance for moving freight commodities
- Estimated annual freight tonnage
- Proximity to Ports, Rail Terminals, Container Terminals, Intermodal Yards, Distribution Centers, Consolidation Centers, etc.
- Connectors & Feeder Routes
- Layover facilities
- Emissions and air quality issues
- Proximity to Environmental Justice areas & low income communities

Mechanics of Designation

Continued...

Alternative Fuel Concepts:

- Presence of / distance to current alternative fuel infrastructure locations. US DOE Tools:
 - Alternative Fueling Station Locator
<http://www.afdc.energy.gov/locator/stations/>
 - Truck Stop Electrification Locator
http://www.afdc.energy.gov/tse_locator
- Met and unmet freight carrier demand for alternative fuels and no-idle layover.
- Spacing, locations and types of additional fueling and layover facilities needed, and availability of nearby supply infrastructure.

Mechanics of Designation

Continued...

Justification:

- Economic Benefits
- Safety and Security Benefits
- Environmental and Sustainability Benefits
- Alignment with State Freight Plan goals

Alignment with State Freight Plans

National Highway Freight Network (51,029 centerline miles)

Primary Highway Freight System (PHFS) - Most critical highway portions of the U.S. freight transportation network

Other Interstate portions not on the PHFS - the remaining portion of Interstate roads not included in the PHFS. These routes provide important continuity and access to freight transportation facilities

Critical Rural Freight Corridors (CRFCs) - public roads not in an urbanized area which provide access and connection to the PHFS and the Interstate with other important ports, public transportation facilities, or other intermodal freight facilities.

Critical Urban Freight Corridors (CUFCs) - public roads in urbanized areas which provide access and connection to the PHFS and the Interstate with other ports, public transportation facilities, or other intermodal transportation facilities.

http://ops.fhwa.dot.gov/freight/infrastructure/ismt/nhfn_states_list.htm



Draft Language

Partner Support for Regional Corridor Goals

NECFC Supporting Role

Two Approaches for Providing Regional Vision

- Letter of Support (cover letter)
- Drop-In Language

Overview of Draft Language

- Preface: **Statement on behalf of NECFC & support** for state/local agency Alt Fuel Corridor applications.
- Context, Trends & Opportunities: **Macro overview of freight issues** in the Northeast.
 - Importance of NE states in terms of population & economy.
 - Current & future picture re: freight and air quality issues.
 - Opportunity for corridor approach re: alt fuels to address issues.

NECFC Supporting Role

Continued...

- **NECFC provides a regional platform** for coordination among essential partners— across disciplines and state/local boundaries-- to promote cleaner and more efficient freight corridors.
- **Potential Northeast Corridor Priorities**
 - I-95 Corridor
 - I-84, I-90, I-87, I-78, and I-80 Corridors
 - “Northeast Triangle”

NECFC Supporting Role

Continued...

- **Regional Vision** - Opportunity and Importance of Clean Corridors
 - Helps meet long term goals
 - Benefits supply chain resiliency, environment
 - Can be used as a mitigation strategy – SIPs, TIPs
 - Leverages federal investment in Alt Fuels infrastructure already in place

Engaging Partner Support

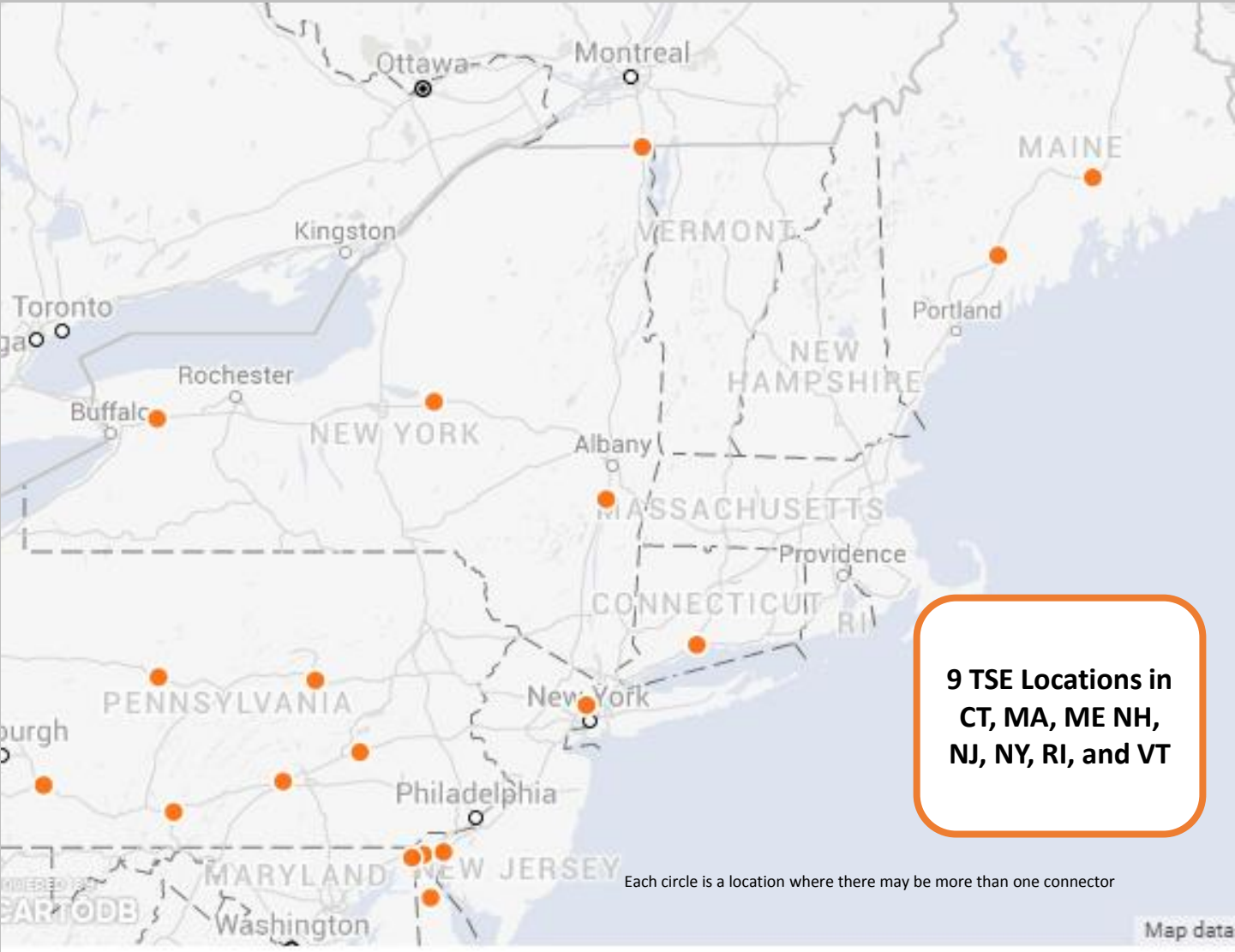
- Work with Local Clean Cities Coalitions
 - Obtain current locations of AFV infrastructure
 - <http://www.afdc.energy.gov/>
- Work with local MPO or DOT agency to monitor designation/application progress
- Stakeholder/Fleet Outreach – alert and educate fleets about the potential opportunity and impact of an alt fuel corridor designation.
- Obtain letters of support.



Partners' Input & Workgroup Discussion

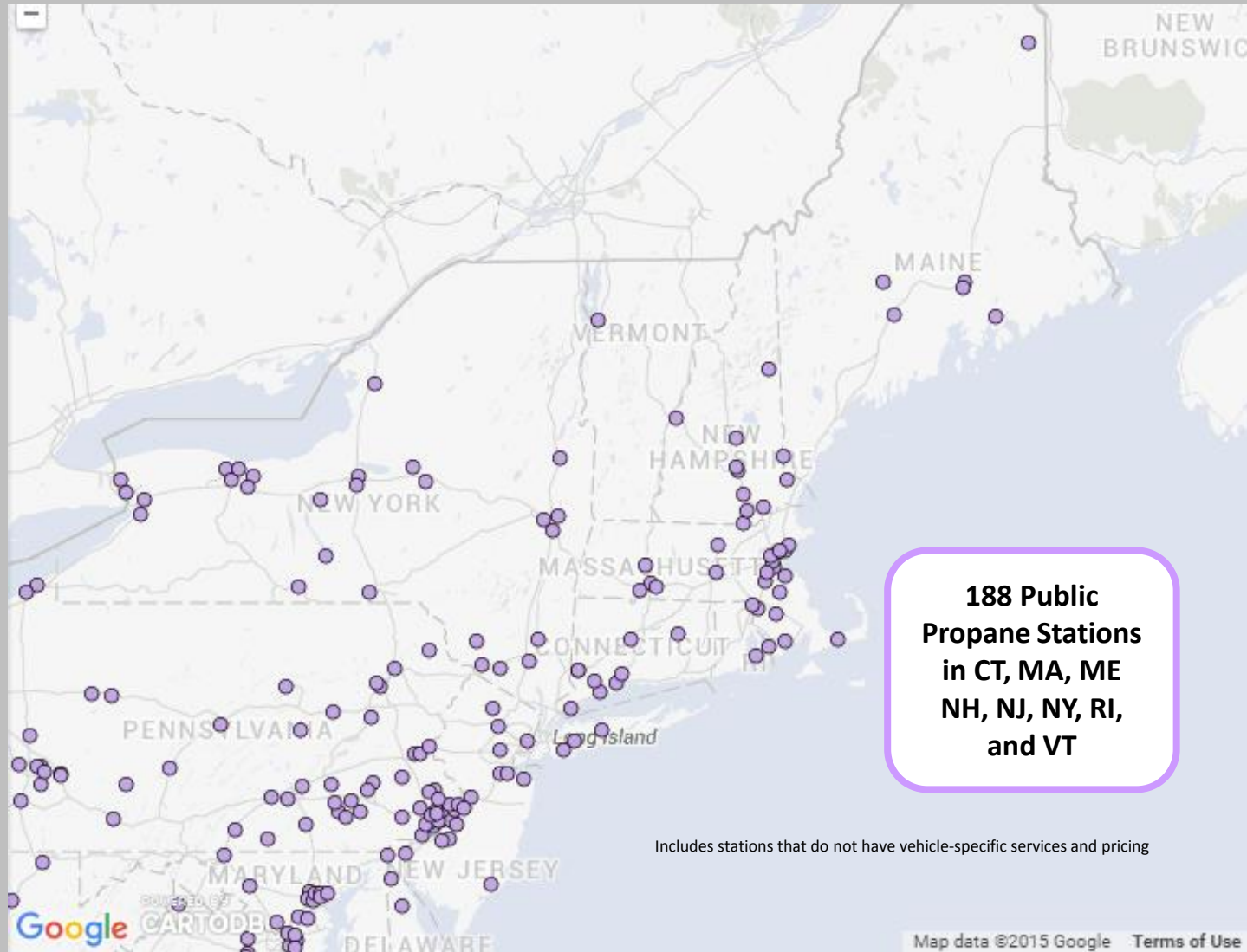
Next WG Call: Topic #6
July 28, 2016 at 2 p.m. – 3:30 p.m. EDT

Truck Stop Electrification – Northeast Region



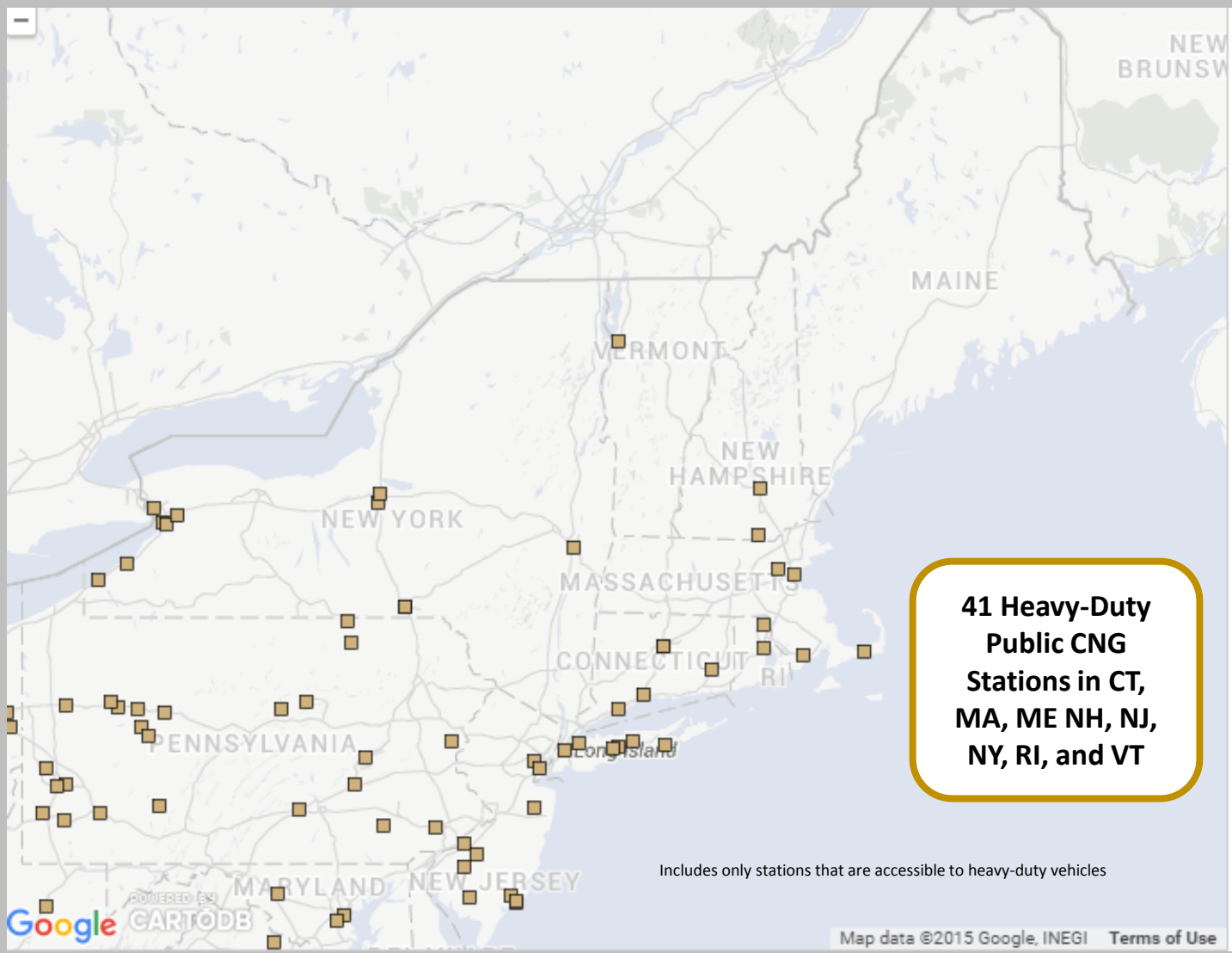
**9 TSE Locations in
CT, MA, ME NH,
NJ, NY, RI, and VT**

Public Propane Fueling Stations – Northeast Region



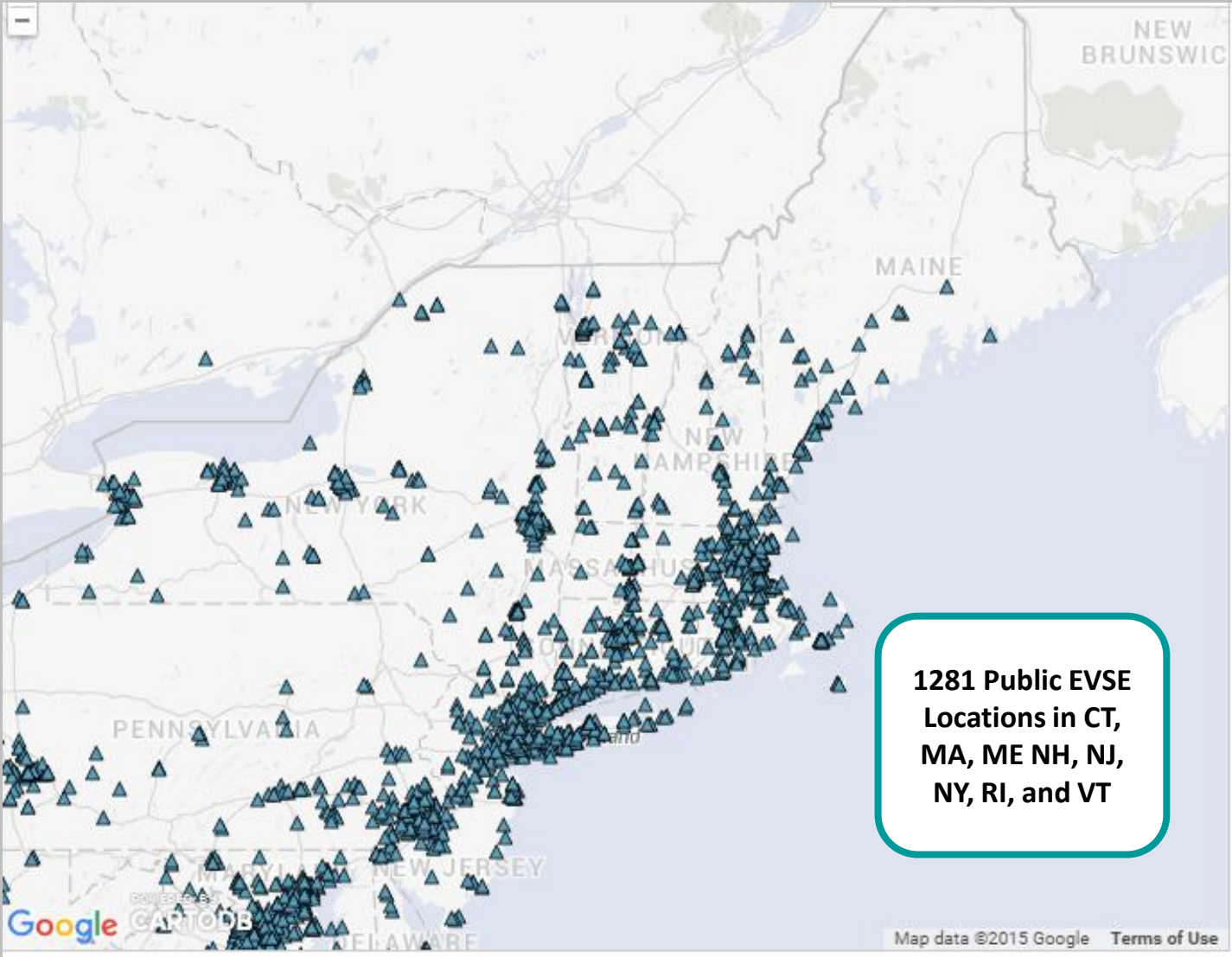
Source: U.S. Department of Energy, Alternative Fuels Data Center: <http://www.afdc.energy.gov/locator/stations/>

Heavy-Duty Public CNG Fueling Stations – Northeast Region



Source: U.S. Department of Energy, Alternative Fuels Data Center: <http://www.afdc.energy.gov/locator/stations/>

Public EVSE – Northeast Region



Source: U.S. Department of Energy, Alternative Fuels Data Center: <http://www.afdc.energy.gov/locator/stations/>

Contact Us

Alycia Gilde, CALSTART

(718) 303 - 0787

agilde@calstart.org

Susan McSherry, NYCDOT

(212) 839 - 4544

smcsherry@dot.nyc.gov

Abby Swaine, EPA Region 1 (ME, VT, NH, MA, RI, & CT)

(617) 918 - 1841

swaine.abby@epa.gov

Marina Castro, EPA Region 2 (NY, NJ, Puerto Rico, & Virgin Islands)

(212) 637 - 3713

Castro.Marina@epa.gov

