



## Webinar #8: U.S. DOE Clean Cities Tasks for **Clean Corridors Meeting: Clean Cities Leadership & Vision for Clean Corridors**



October 28, 2016



## Agenda

- Welcome
- 2. Progress Against Workgroup Roadmap
- 3. Today's Topic #8: U.S. DOE Clean Cities Tasks for Clean Corridors Meeting: Clean Cities Leadership & Vision for Clean Corridors
  - a) Define "Clean Corridors"
  - b) Compile past, successful collaboration efforts (ex. I-90 EVSE Plan) which corridors are Clean Cities priorities, which have existing plans? ARRA lessons learned.
  - c) What does Clean Cities bring to the table? leadership and a national network of coordinators and industry professionals, etc.
  - d) Funding sources leveraged by Clean Cities Coalitions (ex. CMAQ)
  - e) Common goals and action items for Clean Cities Coalitions

#### **Clean Freight Corridors Workgroup Roadmap**

7# Hosts Discuss Value **Clean Corridors and Partnerships** 

**September 29, 2016** Meeting Hosts share goals

and expected outcomes.



October 28, 2016

Clean Cities Coordinators outline roles and opportunities to advance clean freight corridors.



June 23, 2016

Review Designation #1413 Application Process/Support Regional/NE States Nomination

#### 3# Regional Freight Flows

April 28, 2016

Understanding Freight Flows, Bottlenecks and Areas of **Priority** 

6# Part II - Alt. Fuel Corridor **Applications** July 28, 2016

#1413 RFI Review and Existing and Needed Alt. Fuel Infrastructure

#### 1# WG Kick Off

February 18, 2016

Importance for Clean Freight **Corridor Coordination** 

#### **4# Defining Clean Corridors** May 26, 2016

Clean Corridor Definitions for State/Regional Freight Plans



**2# Funding Clean Corridors** 

March 29, 2016 Incentivizing Partnerships for Clean **Freight Corridors** 













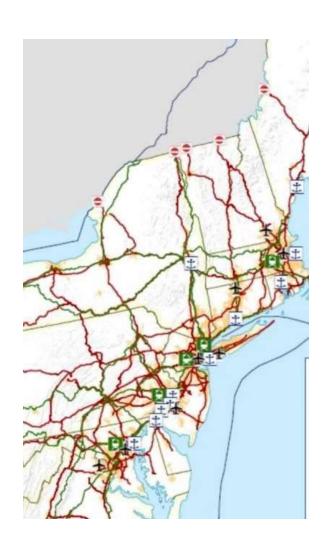




### 3a. Clean Corridors

#### What is a Clean Fuels Corridor?

- Part of NHS, including feeder routes/roads
   (<a href="http://www.fhwa.dot.gov/planning/national\_highway">http://www.fhwa.dot.gov/planning/national\_highway</a>
- Connects major metropolitan / populous areas
- Carries high passenger and/or freight volumes now or in future
- Have some alt fuel infrastructure now and are part of expansion plans



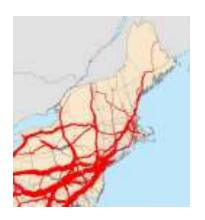
# Defining Clean Corridors What do we mean by "corridor"?

- Heavy freight flow
- Many users travel entire length
- Any mode: highway, rail, marine
- Intermodal nodes
- Feeder routes











# Defining Clean Corridors What do we mean by "clean"?

- Alt fuel is available, and used by fleets.
- Idling reduction is supported, and happens.
- Cleaner & more fuel-efficient engines are more widely used.
- Fewer engine-on hours are required per trip/move.
- Clean & more fuel-efficient modes are chosen.



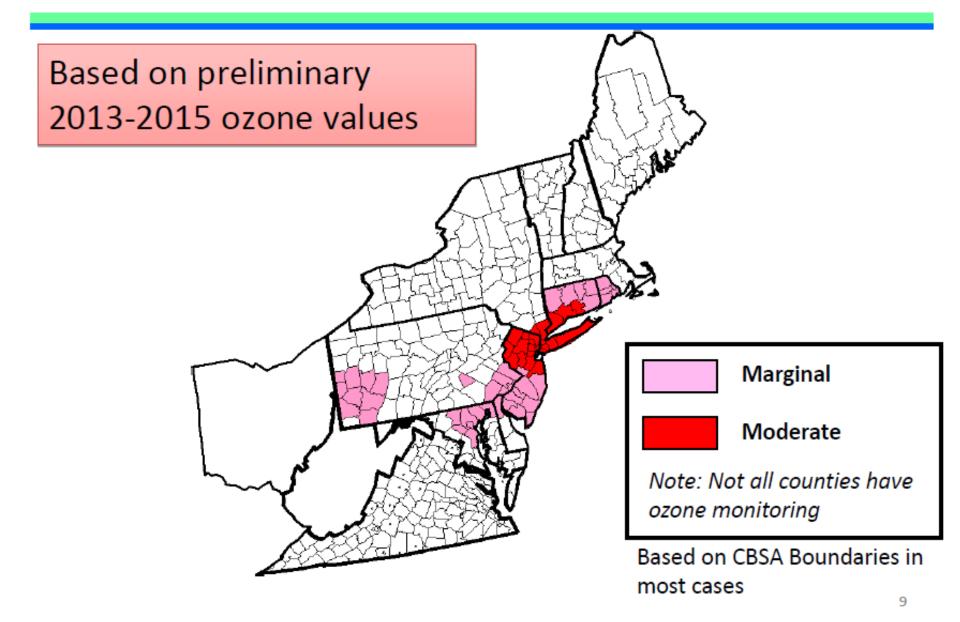
## **Defining Clean Corridors**Putting it together: criteria for "clean corridors"

- Low-performing.
- Where refueling and layovers are likely to occur.
- Where some alt fuel or idle reduction infrastructure exists.
- In heavily-populated areas.
- Corridors ripe for mode shift.





#### Potential Nonattainment – 2015 70ppb NAAQS



### 3a. Clean Corridors

#### **Clean Corridor Designations – Selection Criteria:**

- Alternative Fuel Facilities
- Corridor Scale/Impact
- Emissions Reductions
- Team Development, Collaboration, & Support

#### **Brownie Points:**

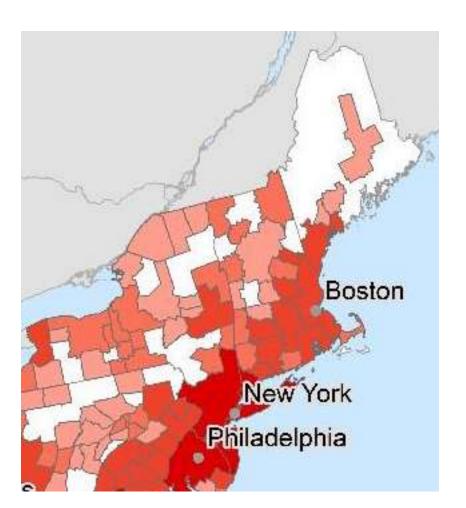
- Corridor runs through nonattainment areas
- Effort addresses US or state GHG reduction goals
- State/local alt fuel vehicle incentives apply
- Analysis of usage & demand for alt fuel
- Maintenance & emergency services for AFVs & stations available



# **Defining Clean Corridors**Why try?

- Influence corridor designations.
- Improve cross-state planning.
- Focus agency resources.
- Incentivize industry.
- Improve freight productivity.
- Reduce **emissions**.





### 3b. Clean Cities Collaborations

 Examples of successful collaborations – state, region, & national (ex. I-90 EV Charging Plan, Northeast Biodiesel Producer Group, etc.)

 Which corridors are Clean Cities priorities & have plans? (ex. I-95, I-90, etc.)

- ARRA lessons learned
  - \$300M matched with > \$500M
  - 9,035 AFVs deployed Displaced 154M GGEs petroleum
  - 1,380 Alternative Fuel Stations Displaced 254,000 tons of GHGs





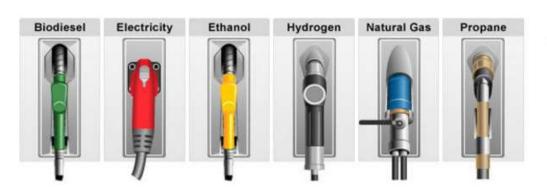
### 3b. Clean Cities Collaborations

NYS NE Region Nationally

- EVSE Implementation Plans for I-90 & Tompkins County
- CNG Infrastructure and Vehicle Implementation: Na tional Grid, Waste Management, Casella Waste, CENTRO
- NYSERDA EVSE Level
   2 Implementation

## 3c. Why Clean Cities?













## 3d. Funding Opportunities

- CMAQ
- VALE
- TIGGER
- DERA

Clean Cities Project Awards					
Year	Proposals	Awards	DOE \$ (million)	Cost Share <sup>a</sup> \$ (million)	Total \$ (million)
1998	90	34	\$2.6	\$18.7	\$21.3
1999	104	53	\$3.7	\$11.1	\$14.8
2000	138	54	\$3.8	\$23.0	\$26.8
2001	127	54	\$4.3	\$10.9	\$15.2
2002	135	55	\$4.5	\$21.4	\$25.9
2003	141	68	\$5.3	\$29.9	\$35.2
2004	156	66	\$5.4	\$37.5	\$42.9
2005	153	70	\$5.4	\$35.3	\$40.7
2006–2008 <sup>b</sup>	78	16	\$8.4	\$26.4	\$34.8
2009–2010 <sup>b</sup>	116	23	\$13.7	\$17.9	\$31.5
2011–2012 <sup>b</sup>	69	16	\$8.5	\$1.9	\$10.4
2013	66	20	\$11.1	TBDc	\$11.1
2015	60	11	\$6	\$3.2	\$9.2
Total	1,373	529	\$82.7	\$237.2	\$319.8
2009–2010 (ARRA) <sup>b,d</sup>	89	25	\$300.0	\$506.4	\$806.4
Grand Total	1,522	565	\$382.7	\$743.6	\$1,126.2

Source: NETL regional managers

a Cost share includes both matching funds and in-kind contributions.

b Multiyear project awards: These projects received incremental funding that spanned multiple fiscal year budgets. This chart reflects total project funding.

<sup>&</sup>lt;sup>c</sup> The actual cost share amount is subject to negotiations prior to finalizing the award.

<sup>&</sup>lt;sup>d</sup> One-time funding from the American Recovery and Reinvestment Act of 2009 (ARRA)

## 3e. Clean Cities Goals / Action Items

- Connect Clean Cities with State DOTs esp. with Freight Plans/Regional MPO plans – advisory committee/working groups.
- Take active role in moderated discussions during the meeting.
- Make value of Clean Cities known technical insight, partnerships, techs/fuels, grants, project management, fuel/technology neutral.
- Arrange Clean Cities webinars for corridor coalitions (I-95 Corridor Coalition)
- NECFC can be the connector promote partnerships/ID funding opportunities