Mission &
Background/History
Clean Cities Mission

To advance the energy, economic, and environmental security of the United States by supporting local decisions to adopt practices that contribute to the reduction of petroleum consumption in the transportation sector.

- Sponsored by the DOE’s Office of Energy Efficiency and Renewable Energy's Vehicle Technologies program
- Provides a framework for businesses and governments to work together as a coalition to enhance markets
- Coordinate activities, identify mutual interests, develop regional economic opportunities, and improve air quality
- Deployment of alternative fuels and advanced vehicle technologies (i.e.: vehicles and fueling infrastructure)
Where Is Clean Cities?

**DOE → EERE → VT → Clean Cities**

**DOE Program Offices**
Office of Civilian Radioactive Waste Management; Office of Fossil Energy; Office of Electricity Delivery & Energy Reliability; Office of Legacy Management; Office of Environmental Management; Office of Nuclear Energy; Office of Science; and **Office of Energy Efficiency & Renewable Energy (EERE)**

**EERE’s Mission:** Strengthen America’s energy security, environmental quality, and economic vitality in public-private partnerships that Enhance energy efficiency and productivity; Bring clean, reliable and affordable energy technologies to the marketplace; and Make a difference in the everyday lives of Americans by enhancing their energy choices and their quality of life.

**EERE Offices**
Bioenergy Technologies; Building Technologies; Federal Energy Management Program; Geothermal Technologies; Fuel Cell Technologies; Advanced Manufacturing; Solar Energy Technologies; Wind & Water Power Technologies; Weatherization & Intergovernmental Programs; and **Vehicle Technologies Office (VTO)**
Clean Cities: A Brief History

1988: Alternative Motor Fuels Act
1990: Clean Air Act Amendments
1991: Creation of the Alternative Fuels and Advanced Vehicles Data Center (AFDC)
  • Mandated the DOE to create programs that increase the use of alternative fuels in place of gasoline and diesel fuel in conventional vehicles.
  • Defined alternative fuels
  • Required federal, state, and alternative fuel provider fleets to begin phasing in the purchase of AFVs.
1996: 52 designated Coalitions
2000: 79 designated Coalitions
Today: 87 designated Coalitions
Clean Cities Portfolio of Technologies

Alternative Fuels and Vehicles
- Biodiesel (B100)
- Electricity
- Ethanol (E85)
- Hydrogen
- Natural gas
- Propane

Fuel Blends
- Biodiesel/diesel blends (B2, B5, B20)
- Ethanol/gasoline blends (E10)
- Hydrogen/natural gas blends (HCNG)

Fuel Economy
- Increase Fuel efficiency
- Behavioral changes
- Vehicle maintenance initiatives
- Vehicle miles traveled (VMT)

Idle Reduction
- Heavy-duty trucks
- School buses
- Truck stop electrification

Hybrids
- Light- and Heavy-duty HEVs
- PHEVs
Clean Cities Program Roles

Community Stakeholders
(e.g. Local fleets, General public, Local governments, etc.)

NETL Regional Managers
Regular interaction w/Coordinators, communicate program direction, technical support, etc.

DOE HQ
Regular interaction to communicate program direction, solicit ideas and feedback, etc.

DOE Labs: NREL, ANL, etc.
Communication tools, data analysis, etc.

Clean Cities Coordinators / Coalitions
Feedback on program direction, Insight into local trends and emerging issues

Industry Stakeholders
(e.g. OEMs, Industry Groups, Equipment Suppliers, Infrastructure Developers, etc.)
• 87 active coalitions in 45 states

• 700,000 AFVs using alternative fuels

• 6,600 AFV stations

• 13,000+ stakeholders
Clean Cities Stakeholders

Coalitions are made up of local and national stakeholders:

- Over 13,000 local stakeholders
- 49% private stakeholders - Consumers and Critical Service Providers

- Federal, State, Municipal Transportation, Environmental and Energy Agencies
- Vehicle and Engine Manufacturing Partners, Vehicle Dealerships
- Fuel Equipment Suppliers and Providers
- Private Light-duty and Heavy-duty Fleets (e.g., trucks, refuse haulers)
- Alternative Fuel and Clean Air Advocacy Organizations
- School Districts, University/Campus Fleets
- Airports, Transit Agencies
- Taxi Companies, Shared Ride Services
- General Public, Local Businesses
Clean Cities Regional Map

- Kay Kelly, Northwest
- David Kirschner, North Central
- Erin Russell-Story, Northeast
- Trev Hall, Southeast
- Neil Kirschner, South Central
- Brett Aristegui, California
- Darren Stevenson, Mid-Atlantic

Puerto Rico and USVI included in Mid-Atlantic Region
2013: Implementation Initiatives to Advance Alternate Fuel Markets
FOA Goals & Objectives

- Program seeks projects to target and remedy specific obstacles to alternative fuel vehicle adoption and use in local, regional and/or statewide sectors and niche markets.

- This effort will help to decrease the nation’s dependence on petroleum and reduce greenhouse gas emissions by accelerating the deployment of alternative fuel vehicles and associated fueling infrastructure.


- **Cost Share:** Encouraged but not required
- **Period of Performance:** Not to exceed two (2) years
FOA Goals & Objectives (cont.)

• Applications were required to address each of the following four initiatives:
  
  1) **Policy Initiatives** that positively impact local/regional/state regulations, plans, codes, and/or incentives regarding the use of alternative transportation fuel(s).

  2) **Barrier Reduction Initiatives** that identify, address, and/or mitigate various local/regional/state barriers to the use of alternative fuel vehicles.

  3) **Safety and Training Initiatives** that address needs for training of first-responders, service technicians, mechanics, code officials, fleet managers and/or decision makers regarding the use of alternative fuel vehicles and petroleum reduction strategies.

  4) **Market Development/Outreach Initiatives** that address needed outreach, education, coordination among key infrastructure development partners, and/or information dissemination regarding the use of alternative fuel vehicles.

• Applications could focus on certain elements within each initiative but each area should be addressed.
2013: Clean Cities – Implementation Initiatives to Advance Alternate Fuel Markets Selections

- San Francisco, CA
- Portland, ME
- Philadelphia, PA
- Washington, DC
- Alexandria, VA
- Raleigh, NC
- Atlanta, GA
- Orlando, FL
- Santa Fe, NM
- Denver, CO
- Tulsa, OK
- Arlington, TX
- Austin, TX
- Houston, TX
- St. Paul, MN
- Madison, WI
- Des Plaines, IL
- Columbus, OH
- Ann Arbor, MI
- Kansas City, MO
- Alexandria, VA
- Arlington, TX
- Orlando, FL
- Houston, TX
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Clean Cities Website: www.cleancities.energy.gov
Alternative Fuels and Advanced Vehicles Data Center: www.afdc.energy.gov
Fuel Economy: www.fueleconomy.gov