# Clean Cities Overview City of Sacramento Green Fleet Update

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## Renewable Fuels Opportunities

City of Sacramento refuse fleet consumes
 ~1 million gallons LNG annually

 City fleet consumes ~1/2 million gallons diesel annually

 The city seeks to serve as an anchor customer to encourage local production and/or distribution of renewable fuels. City of Sacramento

## **GREEN FLEET EFFORTS**



## E85 Police Interceptors

- In 2011:
  - Displaced nearly 24,000 gallons of gasoline
  - Displaced 45.5 tons of GHG emissions
- E85 Commitment
  - City operates numerous flex-fuel vehicles
  - E85 use primarily in police interceptors
  - City operates E85 station; price: \$2.5410/gallon (Oct. 2)
- Future of E85 use in cheaper, more sustainable sources of E85 (e.g. cellulosic)



#### Hybrid, Plug-In, and Electric Fleet

- Partnership with US
   Department of Energy
   (DOE) and Chrysler to test plug-in hybrid pickup trucks
- Chevrolet Volt sedans (98 MPGe)
  - Purchase from SMUD
  - Affordable lease
- Toyota Prius, Ford Escape Hybrid, etc.



## LNG & Hybrid Refuse Trucks

 113 Liquefied Natural Gas (LNG) refuse trucks

- 2 Hydraulic Hybrid refuse trucks
- In 2011displaced 826.4 tons greenhouse gas (GHG) emissions



#### **Greater Sacramento Clean Cities**

- Part of US DOE Clean Cities program
  - Serves Greater Sacramento region

 Mission: To advance the energy, economic, and environmental security of the US by supporting local decisions to reduce petroleum use in transportation



#### Clean Cities: Industry Connections

- Clean Cities helps you make industry connections
  - Stakeholders composed of fleets, fuel providers, vehicle manufacturers/vendors, etc.
  - Webinars, events, targeted meetings, etc.
  - Connections are key to understanding opportunities
  - Provide letters of support and other grant assistance

#### **Clean Cities**

#### **Clean Cities Mission**

To advance the energy, economic, and environmental security of the U.S. by supporting local decisions to reduce petroleum use in transportation.

- Energy Policy Act of 1992 (EPAct)
- Provides a framework for businesses and government agencies to work together
- Goal: Reduce U.S. petroleum use by 2.5 billion gallons per year



#### **Clean Cities Coalitions**

- Nearly 100 coalitions in 45 states
- 775,000 AFVs using alternative fuels
- 6,600 fueling stations



#### Clean Cities Stakeholders

Coalitions are made up of local and national stakeholders.

- 8,400 stakeholders nationwide
- 49% private-sector stakeholders
- 51% public-sector stakeholders















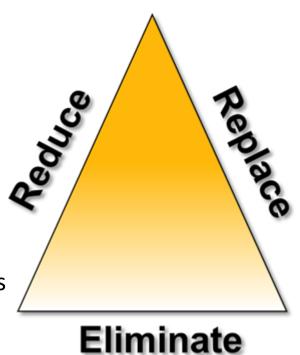






## Clean Cities Strategies

- Replace petroleum with alternative and renewable fuels
- Reduce petroleum use through fuel efficiency measures, smarter driving practices, and idle reduction
- Eliminate petroleum use by promoting mass transit, trip elimination, and congestion mitigation



Clean Cities has saved nearly 3 billion gallons of petroleum since 1993.

#### Clean Cities Portfolio of Technologies

#### **Alternative and Renewable Fuels**

- Biodiesel
- Electricity
- Ethanol (E85)
- Hydrogen
- Natural gas
- Propane

#### **Fuel Economy**

- Fuel efficient vehicles
- Driving habits
- Vehicle maintenance

#### **Idle Reduction**

- Technologies
- Behavioral changes

#### **Trip Elimination**

- Telecommuting
- Ridesharing

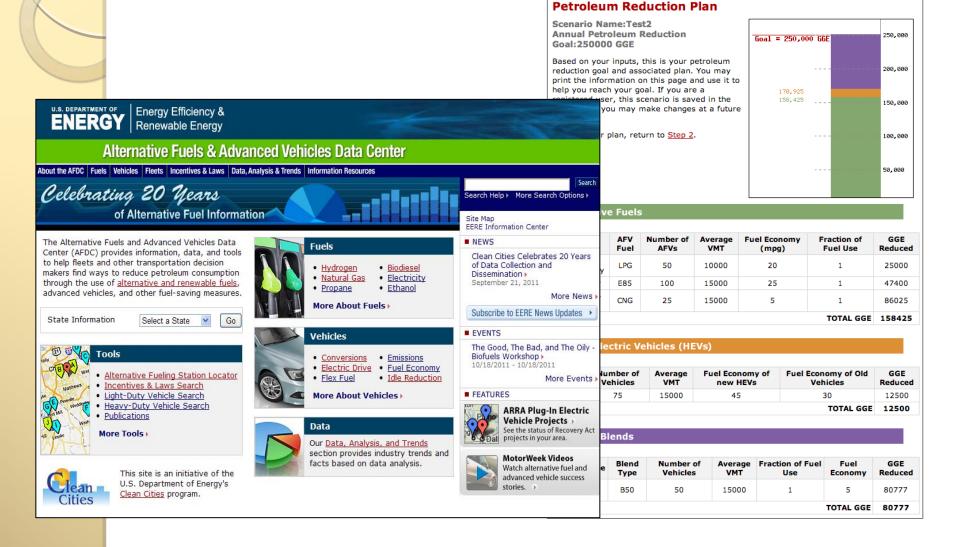


#### Clean Cities Strengthens Markets

- Connecting fleets with fuel providers and industry partners
- Training and information
- Technical assistance
- Funding
- Education and outreach to decision makers, fleets, and the public



## Alternative Fuels & Advanced Vehicles Data Center



## FuelEconomy.gov



#### Online Information Resources

Clean Cities

www.cleancities.energy.gov

Alternative Fuels & Advanced Vehicles Data Center <a href="https://www.afdc.energy.gov">www.afdc.energy.gov</a>

FuelEconomy.gov www.fueleconomy.gov

Clean Cities Coordinators and Coalitions

www.afdc.energy.gov/cleancities/coalitions/coalition locations.php







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