





www.ccities.doe.gov

U.S. Department of Energy













AFV Policy

- Fuel Taxes Highway Tax, Ethanol Production Tax Credit
- Energy Policy Act
 - Vehicle and Refueling Tax Deductions
 - Vehicle Acquisition Requirements for Federal, State, and Fuel Provider Fleets
 - Voluntary Market Development
 - Clean Cities Program
- Clear Act tax incentives for alternative fuel vehicles
- Green School Bus Program –grants for alt. fuel and clean diesel buses
- TEA-21 Reauthorization



www.ccities.doe.gov



DOE provides Coalitions with:

- A DOE Regional Clean Cities Advisor
- A hotline, a Website and American fuel publications
- · Discounted registration to the Nat'l Clean Cities Conf.
- Assistance with public outreach activities
- Public recognition of local stakeholders as community champions
- Networking opportunities to build AFV partnerships
- Fund raising, grant writing, and market development training
- Competitive funding opportunities available only to designated coalitions



www.ccities.doe.gov



Clean Cities Today

- > Currently 81 Active Coalitions
- > 4.400+ Stakeholders
- > 181M gals of petrol. displaced per year
- > 32,000 metric tons of emissions reduced per year

U.S. Department of Energy





Current AFVs in the U.S. (2002)

- Alternative Fuel Vehicles Total Over 518,900
 - 281,300 Propane Vehicles
 - 126,300 CNG Vehicles
 - 82,500 E85 (Ethanol) Vehicles
 - 19,800 Electric Vehicles
- Alternative Fuel Refueling Stations Total Over 5,600
 - 3,359 Propane Stations
 - 1,269 Natural Gas Stations (CNG & LNG)
 - 838 Electric Rechargers
 - 151 E85 Stations
- Approximately 39 light-duty models available ('03)
- 100 medium/heavy-duty models available



www.ccities.doe.gov



Future of AFVs in the U.S.

- Advanced technology vehicles (AFVs or advanced engine technology) are projected to:
 - Reach 2.1 million vehicle sales per year by 2020
 - 12% of total projected light-duty vehicle sales
- Alcohol flexible-fueled vehicles are expected to lead advanced technology vehicle sales, reaching approximately 644,000 units by 2020.
- About 80% of advanced technology sales are a result of Federal and State mandates for either fuel economy standards, emissions programs, etc.
- Niche Markets, such as transit are showing growth in the use of natural gas



www.ccities.doe.gov



Lessons Learned from Clean Cities

- Legislation and incentives to encourage purchases are key
- · Active fuel suppliers are necessary
- Drivers & mechanics must be educated to allay safety concerns
- Customers must be vocal about what they want in terms of vehicle types
- · Coalitions with strong coordinators are needed
- · Niche markets are a must
- · Poor technology must be avoided



www.ccities.doe.gov







Websites

Alternative Fuels Data Center www.afdc.doe.gov
Clean Cities www.ccities.doe.gov

Electric Drive Transportation Association www.evaa.org

National Biodiesel Board <u>www.biodiesel.org</u>

National Ethanol Vehicle Coalition www.e85fuel.com

National Propane Gas Association www.npga.org

Natural Gas Vehicle Coalition www.ngvc.org

The Library of Congress http://thomas.loc.gov/



www.ccities.doe.gov 17