



U.S. Department of Energy
Energy Efficiency
and Renewable Energy



Clean Cities 101

Arkansas Clean Cities Kick-Off Meeting

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Dallas-Fort Worth Clean Cities Coalition

North Central Texas Council of Governments

Transportation Department



North Central Texas
Council of Governments



The Clean Cities Mission:

Clean Cities was created by DOE to address the requirements of the Energy Policy Act (EPAct) of 1992:

To advance the nation's economic, environmental, and energy security by supporting local practices that contribute to the reduction of petroleum consumption in the transportation sector

Currently, the National Clean Cities Program is part of the Office of Energy Efficiency and Renewable Energy's Vehicle Technologies Program.



Objectives of the Clean Cities Program

About 190 Volunteer Coalitions, Which Develop Public/Private Partnerships to:

- Facilitate the Deployment of Alternative Fuel Vehicles (AFVs)
- Support the Installation of an Alternative Fuel Refueling Infrastructure
- Increase the Use of Fuel Blends (i.e. Diesel/Biodiesel & Ethanol/Gasoline)
- Accelerate Sales of Hybrid Electric Vehicles
- Promote Informed Consumer Choice on Fuel Economy
- Encourage the Use of Idle Reduction Technologies/Policies for Heavy-Duty Trucks and Other Vehicles



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Why are the Clean Cities Objectives Important ?

Improve Air Quality

Reduce Greenhouse Gas Emissions

Enhance Energy Security

Create Energy Related Jobs in the US



Assets of Clean Cities

Coordinators

- Local Champion and Point of Contact
- Strong Local Relationships and Understanding of Player and Issues

Coalitions

- Members/Stakeholders are Committed to the Mission
- Build Bridges in the Local Community to Mutually Address Barriers

Local Strategy to Advance a National Goal

- Local Involvement Works Effectively in Communities
- National Leadership Adds Legitimacy to Local Activities and Assists with Information Transfer Among Coalitions



Assets of Clean Cities Continued

Technical Information & Resource

- Alternative Fuels Data Center (AFDC)

AFDC Recognized Nationally and Abroad as Reliable Sources of Unbiased Information

- <http://www.eere.energy.gov/afdc/>
- Over 76,000 Documents Being Downloaded
- Funding Information
State and Federal Incentives and Laws



2008 Annual Report

86 Coalitions Completed the Annual Report

287 Million GGE Were Displaced

Initial Estimate of ~1 Million Tons GHG Savings

1,316 Outreach Activities Reached Audiences Totaling 113
Million People

Grants Totaled \$34 Million with \$66 Million in Leveraged
Funds

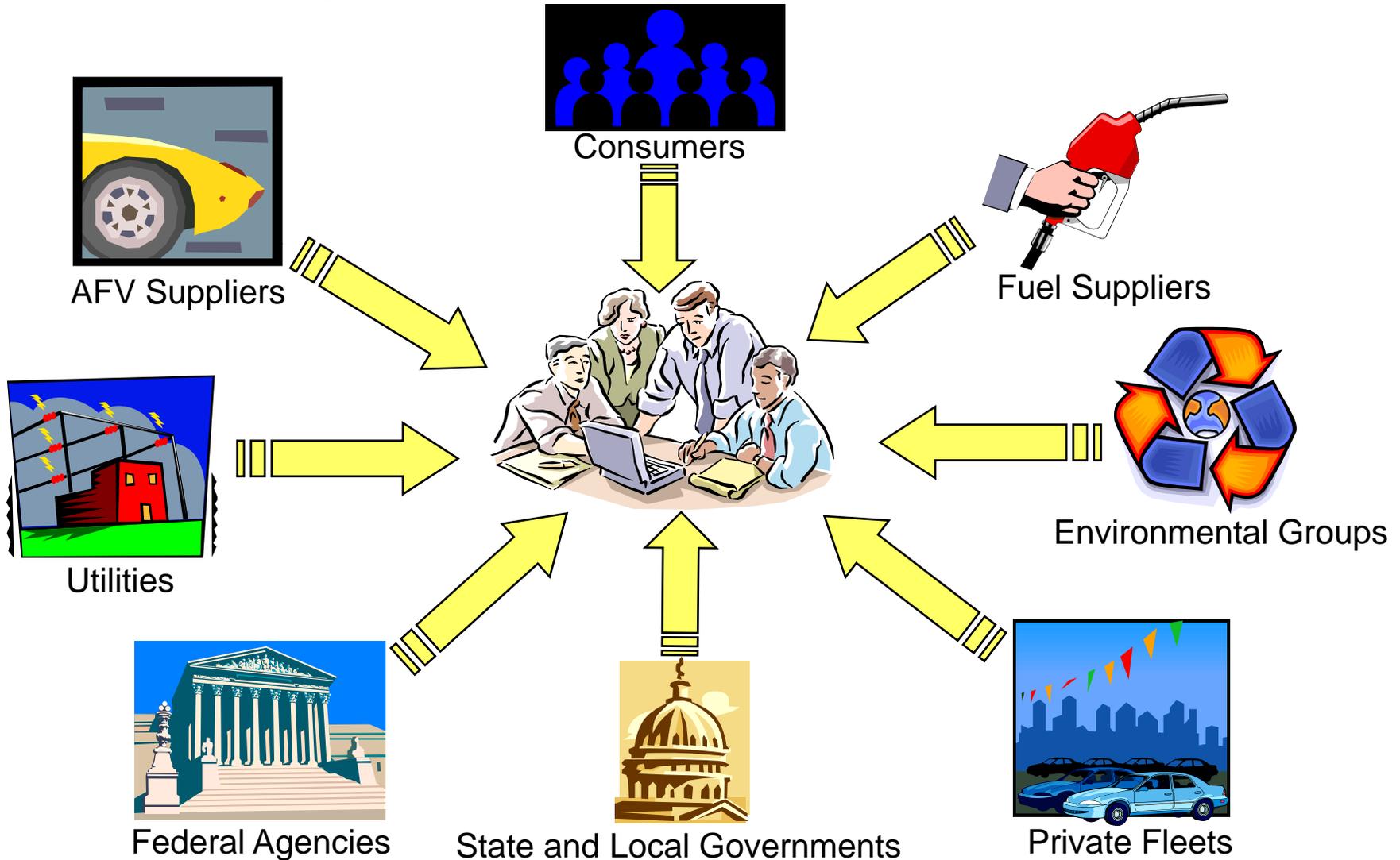


The Clean Cities Petroleum Displacement

- 1 Billion gges Met in 2005
 - 1 Billion gges is Equivalent to:
 - Gasoline Burned by 5 Million Cars
 - 1 Supertanker Every 8 Days
 - 53 Million Barrels of Oil Per Year
 - 150,000 Barrels of Oil Per Day
- Displaced 2 Billion Gallons Displaced
 - Expected to Surpass Goal of 2.5 Billion gges/year By 2020



Clean Cities Stakeholders





Focus on Fleets

Why Fleets?

- EPA Act Mandated Fleets
- Centrally Fueled
- Grant Opportunities/Leveraging of Funds
- Bulk Purchasing of Vehicles
- Impact on the Public

Develop Partnerships

- Investigate a Diversified Fuel Program
- Adopt Practices to Reduce Fossil Fuel Consumption
- An Alternative Fuels Program Will Lower Vehicle Emissions and Improve Air Quality
- Promote Energy Security



Dallas-Fort Worth Clean Cities Coalition

- Designated in July 1995
- Housed in the North Central Texas Council of Governments (NCTCOG) in the Form of a Technical Committee
- Clearinghouse for Fleets and the General Public Related to Technical Guidance, Funding, and Outreach Associated to Alternative Fuel and Advanced Technology Vehicles, Technologies, and Policies
 - Hold Quarterly DFW Clean Cities Technical Coalition Meetings
 - Plan and Host/or Promote Clean Vehicle Workshops
 - Host Annual Advancing the Choice
 - Create and Distribute the Monthly Electronic Newsletter, *Clean Cities News Flash*
 - Performed Outreach at Approximately 25 Community Outreach Events Since October 2007



DFW Partnerships

- Texas Has Strong Bond Among Coalitions
 - 6 Coalitions in State
- Because It Is Such a large State, Cooperation is Required
- Contract with State Energy Office (SEO) Requires us to Work on Corridor Projects/Events
 - Texas Propane Lawn Mower Rebate Program
- Long-Term Relationship With SEO
 - Keep Them Informed and Involved in Coalition
 - Provide Monthly Progress Reports
- Strong Relationship with EPA Region 6
 - Provided Us New Outreach Opportunities
 - Networking Opportunities for Potential Projects/New Stakeholders



DFW Stakeholders

- Stakeholders are Vital to Success
- Help with Outreach, Provide Peer-to-Peer Exchange of Information, and Mentor One Another (technology transfer)
- Our Stakeholders Include Public and Private Fleet Administrators, Vehicle and Equipment Manufacturers, Fuel Providers, and Others
 - Develop Strong Relationships – We Are a Technical Clearinghouse of Fuel, Technology, Funding, and Policy Information
- Give our Stakeholders a Value for Being a Part of the Coalition
 - PR for Fleets Encourages Them to Continue Projects As Well As Encourages Other Fleets to Do the Same



DFW Success Stories

City of Dallas Police Department

- Pilot Program for Energy Xtreme's Idle Reduction Technology
- Powers Vehicle's Full Electrical Load
 - Lights, Radio, Laptop, Camera
 - Engine Does Not Need to Remain Engaged
- Savings
 - 4.85 hour of Idling
 - 3.65 gallons of Gasoline per day
 - \$11.86 per day (at \$3.26/gallon)
 - 72.75 pounds of CO₂ per day
- Total Estimated Annual Savings for 850 Vehicles
 - \$2,661,384 in Fuel
 - 16,325,100 pounds of CO₂



DFW Success Stories

Diversification

- Natural Gas and Propane Heavy in North Texas
- Recent Involvement with E85 and Biodiesel
 - Kroger on MacArthur
 - Classic Clean Fuels





DFW Obstacles

- Training
- Manufacturer Support
- Infrastructure Funding and Availability
- University of Texas at Arlington
 - Really Want to Move Fleet to Natural Gas
 - Not Enough Volume for Their Own Station
 - Building Partnerships Has Been a Struggle Here





Top 10 Strategies for Success

1. Pursue and Provide Funding Opportunities
2. Hold Meetings and Workshops
3. Coordinator Peer Exchange
4. Stay Fuel and Technology Neutral
5. Membership Communication
6. Utilize DOE Program Support Mechanisms
7. Funding Support from Coalition – Strive to be Self-Sufficient
8. Build a Strong Partnership with State, Local, and Federal Agencies
9. Have an Annual Plan
10. Be Excited and Make It Fun!!!



Resources

- National Clean Cities' Program

<http://www.eere.energy.gov/cleancities/>

- DOE's Clean Fleet Guide

<http://www.eere.energy.gov/fleetguide/>

- EPA's Green Vehicle Guide

<http://www.epa.gov/autoemission/>

- Alternative Fuels Refueling Station Locator

<http://www.eere.energy.gov/afdc/infrastructure/locator.html>



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