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# Southeast Louisiana Clean Fuels Partnership

## Quarterly Meeting 10/23/07



A Louisiana State Energy Office sponsored development

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### Agenda:

1. Opening and Introductions
2. Overview of Department of Energy's (DOE's) Clean Cities Program and the Southeast Louisiana Clean Fuels Partnership
3. Overview of Clean Fuels
4. Questions and Answers

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### Logistics:

- Refreshments
- Location of Bathrooms
- Cell Phones and Pagers

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# Introductions

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# Overview of DOE's Clean Cities Program

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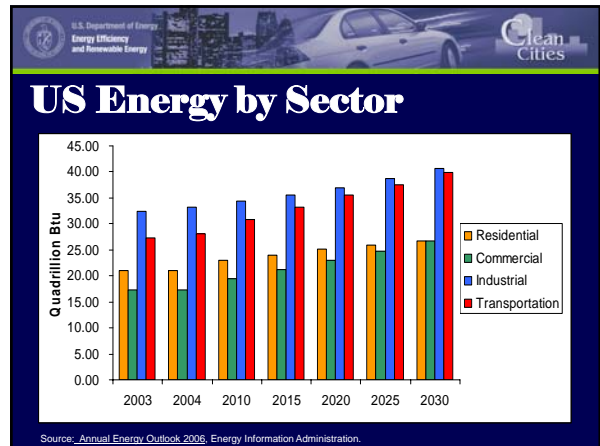
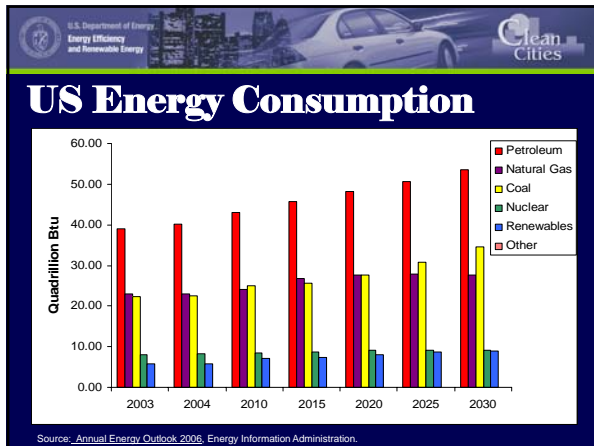
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### Origins and History

- Created by DOE to address requirements in Energy Policy Act of 1992
- Provide technical, financial, and information assistance to communities with alternative fuel deployment plans and to regulated fleets

**Clean Cities Mission**  
To advance the national, economic and energy security of the US by supporting local decisions to use domestically produced non-petroleum fuels in vehicles



## Clean Cities Coalitions

- Typically housed at local or regional government office
- 87 active coalitions nationwide

DOE Alternative Fuels Data Center

## Clean Cities Focus Areas

- **Alternative Fuels/ Fuel Blends/ Vehicle**
  - Ethanol (i.e., E85), Compressed Natural Gas (CNG), Biodiesel (i.e. B20), Propane, Hydrogen, Electricity/ Hybrids
- **Energy efficiency**
  - Idle Reduction
    - On-board APUs, shore power, truck stop electrification, truss-mounted off-board heating/cooling units
  - Fuel Economy
    - Selecting the right vehicle for the job,
    - Advanced technology – low rolling resistance

## Clean Cities Projects

Highway signs and dealer outreach in

Research and Analysis in

Teaching school children in UT

Workshops in IN

## Clean Cities Stakeholders

- Public and Private Fleet Managers and Maintenance Personnel
- Service Station Retailers
- Fuel, Vehicle, and Technology Producers and Distributors
  - Alternative & Traditional
- Legislators and Public Officials
- Universities and Research Groups
- Health Organizations

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## Clean Cities Technical

- **Support**
  - Website with technical info on technologies
  - Resource for coordinators and the public
- **Program and Technology Analysis**
  - Program metrics
  - Analysis of emerging technologies and issues
- **Tiger Teams**
  - Technical experts to solve implementation problems
- **Technical Response Service**

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## Clean Cities Resources



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

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## Important Links

**DOE Energy Efficiency and Renewable Energy (EERE)  
Clean Cities Program**

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

**1-877-EERE-INF (1-877-337-3463)**

**DOE Office of FreedomCar and Vehicle Technologies**

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## **Southeast Louisiana Clean Fuels Partnership**

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## History

- Started in 2000
- Formerly the Greater New Orleans Clean Cities Coalition
- Participated in various Outreach Events
  - Earth Day
  - Clean the Air Over Mardi Gras
- Limited Project Implementation

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## Future

- September 2007: Dept. of Energy provides Coordinator Mentor
- New Coordinator
- New Name
- New Mission

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## Overall Goals

- **Become Designated as an Official Clean Cities Program**
- **Coordinate Project Implementation for Interested Fleets**
- **Provide Education to Stakeholders**

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## Program Plan and Designation

- **Goals and Action Steps**
- **Status of Designation- Fast Tracked**
- **Designation Benefits**
  - Increased funding opportunities
  - Increased technical support

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## Structure

- **Program Coordinator**
- **Steering Committee Structure: Key Contacts:**

▪ Fleets	▪ New Technologies
▪ Private Fleets	▪ Fuel Retailers
▪ Fuel Producers	▪ Legislative
▪ Fuel	▪ College/ University
	▪ Regulatory

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## What Can We Do For You?

- **Coordinate Project Implementation**
- **Provide Education on the Various Aspects of Clean Transportation Fuels and Technologies**




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## Coordinate Project Implementation


- **Provide recommendations based on your fleet, infrastructure, and needs, including economic feasibility**
- **Assist you in procuring finances**
- **Connect interested fleets with reputable alternative fuel/technology providers**
- **Provide PR for your alternative fuel or your alternative fuel vehicle fleet**



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## Education



- **Keep you informed of the latest advantages, legislation and local events relating to alternative fuel vehicles and alternative fuels.**
- **Offer test drives in alternative fuel vehicles.**
- **Provide contacts with fleets that are using alternative fuels.**
- **Give you information on professional**



## Additional Benefits of Membership

- **Collective Effort**
- **Legislative Influence**
- **Public Image**
- **Financial Assistance**
- **Leveraging Resources**
- **Market Access**
- **Grant Writing**



## Membership

- **Individual: one vote per membership (non-transferable)**
- **Government/ Non-Profit/ Small Business (less than 50 employees): up to three members per organization, with each member given one vote (transferable)**



## Membership

- **Private Organization (greater than 50 employees): up to three members per organization, with each member given one vote (transferable).**
- **Corporate Sponsor: up to five members per organization, with each member given one vote**



## Membership


- **Workshop/ Event Sponsor:**
  - Special donation towards a specific event
  - Corporate logo on all marketing materials, signs, and press releases
  - Special recognition at event/



## Membership

- **Dues Structure**

Category	Dues Amount
Student	\$10.00
Individual	\$25.00
Government/ Non-Profit/ Small Business	\$100.00
Private Organization	\$250.00
Corporate Sponsor	\$2,000.00
Workshop or Special Event Sponsor (includes Corporate Sponsor Level Benefits)	\$3,000.00



## Becoming a Member

- **Commitment to increasing the use of cleaner fuel/ technologies in their fleets.**
- **Submit Memorandum of Understanding with contact information**

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# Questions?

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# Overview of Clean Fuels

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# Contact Information

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# Alternative Fuels

**Ethanol**

- Alcohol-based fuel produced from starch crops or cellulosic biomass such as trees and grasses
- High octane, often used to enhance octane properties of gasoline
- As an alternative fuel, most commonly used in a blend of 85% ethanol and 15% gasoline (E85).
- Flexible fuel vehicles (FFVs) and are offered by several vehicle manufacturers. See the [ethanol vehicles](#) page for more information on FFVs.

**CNG**

- Widespread distribution infrastructure
- Clean burning in natural gas vehicles
- Most common in medium- and heavy-duty markets
- Stored onboard a vehicle as compressed natural gas (CNG) or as liquefied natural gas (LNG) Propane:

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# Alternative Fuels

**Biodiesel**

- Manufactured from vegetable oils, animal fats, or recycled restaurant greases
- Biodiesel is safe, biodegradable, and reduces serious air pollutants such as particulates, carbon monoxide, hydrocarbons, and air toxics
- Blends of 20% biodiesel with 80% petroleum diesel (B20) can generally be used in unmodified diesel engines
- Can be used in its pure form (B100), but it may require certain engine modifications
- Potential issues with operation in cold weather

**Propane (LPG)**

- Produces fewer vehicle tailpipe emissions than gasoline
- Produced as a by-product of natural gas processing and crude oil refining
- Widespread infrastructure of pipelines, processing facilities, and storage

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## Alternative Fuels

**Electricity**

- Used to power battery electric vehicles
- Electric vehicle batteries have a limited storage capacity
- Batteries are replenished by plugging the vehicle into an electrical source, through engine operation on gasoline, or regenerative braking

**Hydrogen**

- Emerging fuel for use in fuel cells engines for transportation
- Can be produced from a variety of processes that range from utilizing coal feedstock to biomass or renewables
- Demonstration projects ongoing in select areas across the US

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## Clean Cities Unique Assets

- **Coordinators**
  - Local resource and point of contact
  - Strong local relationships and understanding of player and issues.
- **Partnerships**
  - Members are committed to the mission
  - Build bridges in the local community to mutually address barriers
- **Technical Information and Resources**
  - AFDC recognized nationally and abroad as reliable sources of unbiased information
  - 4.8 million page hits (FY2005)
  - Over 76,000 documents being downloaded
- **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.

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## 2005 Petroleum Displacement

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<u>Technology</u>	<u>Million GGEs</u>	<u>% of Total</u>
Alt. Fuel Vehicles	165	65.7%
Fuel Economy	65	25.9%
Idle Reduction	10	4.0%
Low-Level Blends	8	3.2%
Hybrid Vehicles	3	1.2%
<b>Total</b>	<b>251</b>	<b>100%</b>
<i>Non-Vehicle Total</i>	<i>86</i>	<i>34.3%</i>