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Energy Efficiency  
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# **WELCOME AND CLEAN CITIES OVERVIEW**

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Fleet Innovation Seminar

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Clean  
Cities

# OUTLINE

- What is Clean Cities?
- Funding Opportunities
- Resources

2009  
Strategic  
Partners





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# CLEAN CITIES

A voluntary, locally-based government/industry partnership

*Mission: To advance the energy, economic, and environmental security of the U.S. by supporting local decisions to adopt practices that contribute to the reduction of petroleum consumption in the transportation sector.*

- Established in 1993 in response to the Energy Policy Act (EPAct) of 1992
- Companion program to the EPAct mandates requiring certain fleets to acquire AFVs (Federal, State, and Fuel provider fleets)



## National US DoE voluntary program to promote energy independence in transportation

## Work with GWRCC in NOVA



**Map of the United States showing the locations of 100 Clean Cities.**

**Legend:**

- \* Connecticut Clean Cities Include:
  - Norwalk
  - New Haven
  - CT Southwestern Area
  - Capitol Clean Cities of CT

## DoE Website:

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

## Virginia Clean Cities:

<http://www.hrccc.org>

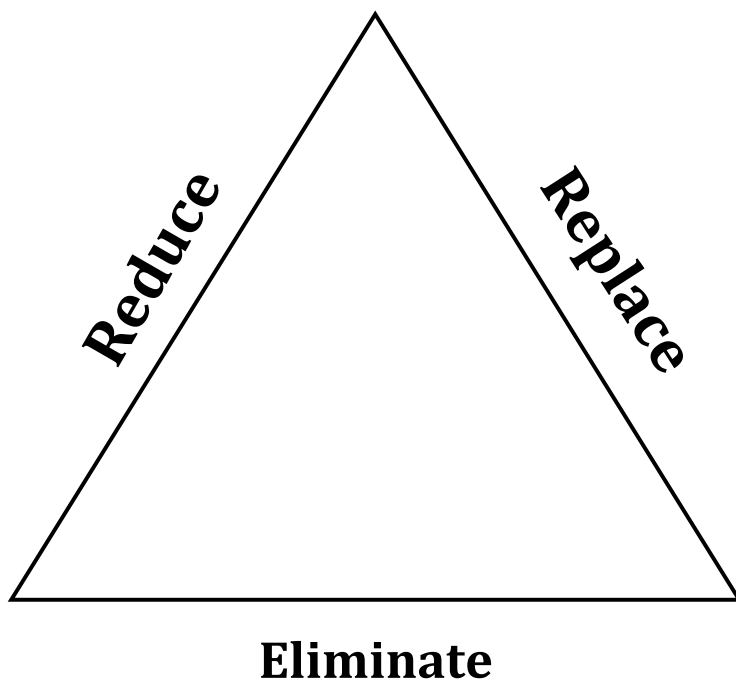


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# GOAL: PETROLEUM REDUCTION

How to Achieve the Goal...



**15<sup>TH</sup> ANNIVERSARY**

15 Years of Petroleum Reduction

*Five Clean Cities technologies:*

- Alternative fuels and vehicles
  - Hybrid electric vehicles
- Idle reduction technologies
  - Fuel economy measures
  - Low-level blends



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## GOAL: PETROLEUM REDUCTION

- Virginia Clean Cities est. 1996 (originally “Hampton Roads Clean Cities”), coalition covers entire state
- 501(c)3 not-for-profit
- James Madison University partnership, Office on campus
- Currently managing 11 alternative fuel deployment and education programs on behalf of fleets and other stakeholders totaling ~ \$24M Tot/\$11M Fed



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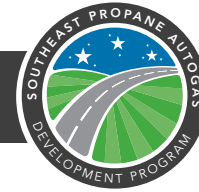


## CURRENT VCC PROGRAMS

- Southeast Propane Autogas Development Program
- Green Operators (GO) Program with Virginia Port Authority
- Facilitator, Get Ready Virginia
- Pilot programs to measure new technology impact on petroleum displacement and emissions
- Propane school bus and natural gas waste hauler deployment programs
- Education



# SOUTHEAST PROPANE AUTOGAS DEVELOPMENT PROGRAM ORGANIZATIONAL CHART



## SPONSOR/FUNDING AGENCY Department of Energy (DOE)

Primary Role: Oversee project activities and ensure they are in accordance with negotiated terms and conditions, and meet DOE goals and objectives.

## PRIME AWARD RECIPIENT Virginia Department of Mines, Minerals, and Energy (DMME)

Primary Role: Award administrator and pass-through entity. Ensure compliance with ARRA, DOE and state terms & conditions.

## PROJECT MANAGER Virginia Clean Cities (VCC) at James Madison University (JMU)

Primary Role: Overall award and project manager. Ensures project is completed on-time, within budget, and exceeds expectations. Daily project monitor and liaison between sponsor agency (DOE) and project partners. Responsible for ensuring information and data is collected to comply with reporting duties. Identifies and mitigates risks.

## SUB-RECIPIENTS

### FLEET PARTNERS

Primary Role: Convert vehicles for propane usage

- ABS Vans
- Blossman Gas
- Carroll County Sheriff's Office
- Cobb County
- Frederick County Sheriff's Office
- Greenville County
- Hopewell
- James Madison University
- Kingsport
- Lewis Pest Control
- Limousine Livery
- Muscogee County Sheriff's Office
- Newport News
- Old Dominion University
- Peninsula Propane
- Pickens County
- Red Top Cab
- Veolia Transportation
- Vestavia Hills

### CLEAN CITIES COALITION PARTNERS

Primary Role: Support education & outreach

- Alabama Clean Cities
- Clean Cities Atlanta
- Mississippi Economic Development Partnership
- Palmetto State Clean Cities Coalition
- Tennessee Clean Fuels Coalition

### CONVERSION CENTERS

- American Alternative Fuel
- Baker Equipment
- Brooks Chevrolet
- Bus Group
- Force 911
- German Motor Werks
- Greenville
- Light-N-Up
- Peninsula Propane

### BLOSSMAN GAS / ALLIANCE AUTOGAS

Primary Role: Support refueling infrastructure installation and maintenance.

### AMERICAN ALTERNATIVE FUEL

Primary Role: Provide conversion equipment for vehicles (PRINS), support vehicle conversions, train technicians, and provide support to conversion centers.

### MSM COMMUNICATIONS

Primary Role: Support marketing, education and outreach efforts.

### PROPANE EDUCATION AND RESEARCH COUNCIL

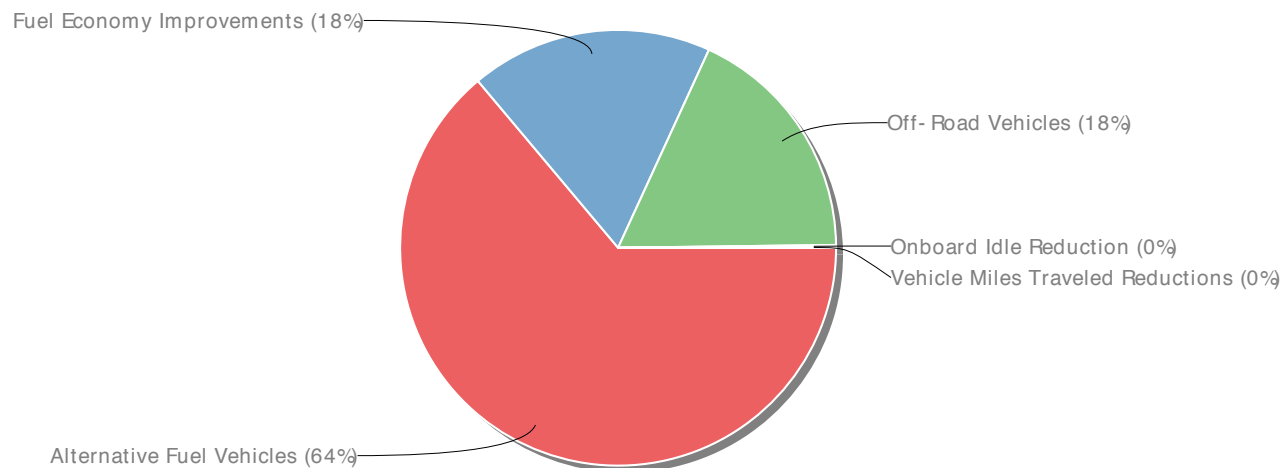
Primary Role: Support education and training efforts.

# 2010 ANNUAL REPORT

## Virginia Clean Cities

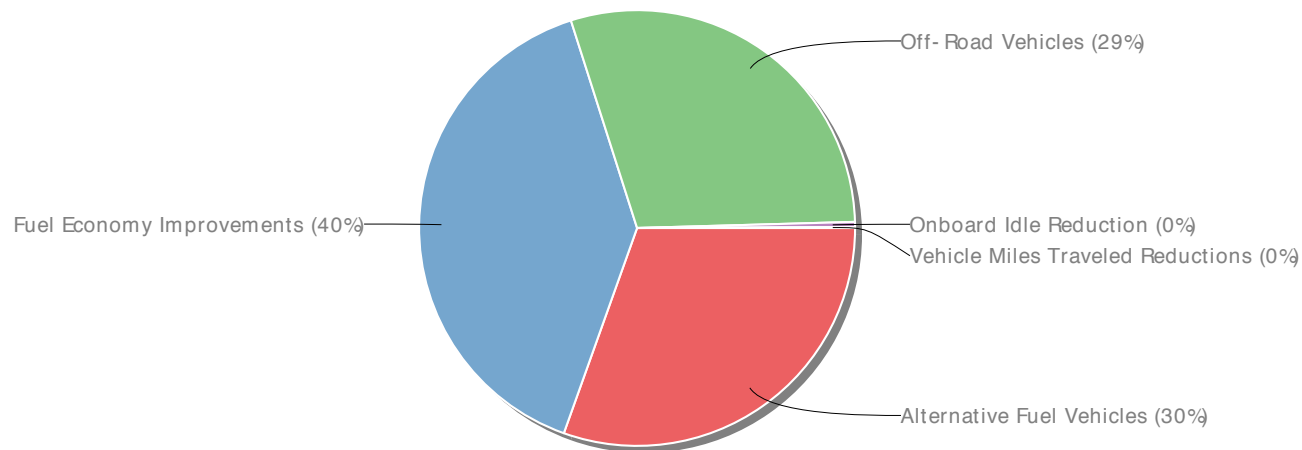
### Gallons of Gasoline Equivalent Reduced

7,236,621 gallons



### Greenhouse Gas Emissions Reduced

40,404 tons





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# FUNDING FOR AFV DEPLOYMENT

## Grant Sources

- US Environmental Protection Agency
- US Department of Energy
- US Department of Transportation
- State Environmental Departments
- Private Foundations / Non-Profits

## Grantor Objectives

- Reduce criteria pollutants
- Displace/reduce petroleum
- Reduce GHG
- Stimulate innovation





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# WHERE TO FIND GRANT OPPORTUNITIES

## Grants.gov

- All fed agency opps listed

## “Grant hawks”

- Clean Cities Coalitions
- EPA Regional Diesel Collaborative
- Other State/Regional Collaborative

## Grant source

- Fed, state, local agencies





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## RESOURCES

- Clean Cities:  
<http://www1.eere.energy.gov/cleancities/>
- Alternative Fuels and Advanced Vehicles Data Center:  
Refueling locator, TransAtlas, PREP, laws & incentives, etc.  
<http://www.afdc.energy.gov/afdc/>
- Virginia Clean Cities  
<http://www.hrccc.org>
- Mid-Atlantic Diesel and Southeast Diesel Collaboratives  
<http://www.dieselmidatlantic.org/diesel/index.htm>



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# THANKS





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