

# **NORTH CENTRAL TEXAS ALTERNATIVE FUEL AND ADVANCED TECHNOLOGY INVESTMENTS**

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**North Central Texas Council of Governments**  
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**Project ID #**  
**ARRAVT057**

# OVERVIEW

## Timeline

- **Start January 29, 2010**
- **End January 28, 2014**
- **82% of Activities Complete**

## Budget

- **Total Project \$36,378,756**
- **DOE Funds \$13,181,171**
- **Cost Share \$23,197,585**
- **36% Federal / 64% Match**
- **63% Expended to Date**

## Barriers

- **3<sup>rd</sup> Party Administration**
- **Timely Implementation**
- **Full Realization of Benefits**

## Subrecipient Partners

- **Local Governments**
- **School Districts**
- **Private Sector Companies**
- **International Airport**
- **Nonprofit Organization**

# **RELEVANCE: OBJECTIVES**

**Increase the Use, Availability, and Awareness of  
Alternative Fuels and Advanced Technology Vehicles**

**Improve Air Quality By Reducing Criteria Pollutant and  
Greenhouse Gas Emissions**

**Reduce Petroleum Consumption and Energy Use**

**Create/Preserve Jobs, Stimulate Economic Recovery,  
and Invest in Long Term Growth in Line with American  
Recovery and Investment Act (ARRA) Goals**

# **APPROACH: PROJECT SELECTION**

**NCTCOG is the Administrator of DOE Funds (\$13,181,171)**

**22 Project Partners Were Pre-Identified in an Open Process Prior to Submittal of an Application to DOE**

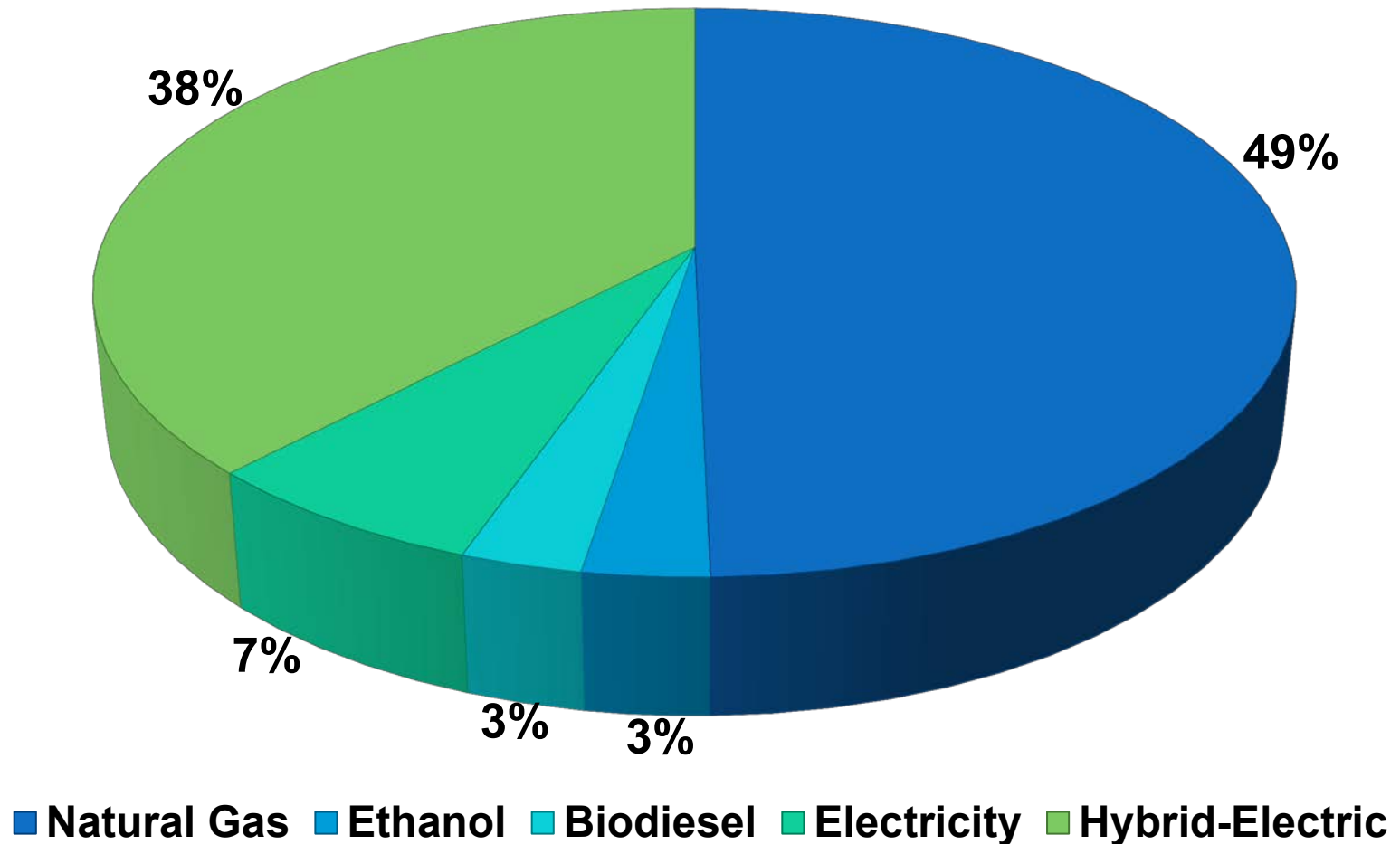
**Since Award, Several Projects Have Been Withdrawn and Several Projects Have Been Completed Under Budget**

**Unexpended Funds Were Reallocated on a Competitive Basis (\$534,554) to Current Project Partners for Additional Eligible Activities**

**Contingency List of Projects Approved for Use as Needed**

# APPROACH: FUEL NEUTRAL

## Vehicle/Infrastructure Projects: Percent of Funding



# APPROACH: PROJECT PACKAGE

**284 Light-, Medium-, and Heavy-Duty Vehicles:  
Natural Gas, Gasoline-Electric Hybrid, Diesel  
Electric Hybrid, and All Electric**

**11 Refueling Sites: Natural Gas, Electric, Ethanol, and  
Biodiesel**

## Project Benefits\*

Pollutant	Annual Reductions
Nitrogen Oxides (NO <sub>x</sub> )	63.7 Tons
Volatile Organic Compounds (VOC)	1.6 Tons
Particulate Matter (PM)	0.8 Tons
Tons Carbon Dioxide (CO <sub>2</sub> )	376.5 Tons
Petroleum	872,847 Gallons

\*Emission results quantified using the Clean Cities Area of Interest 4 Emissions Benefit Tool, estimating results of vehicle projects only. Petroleum displacement is also for vehicles only.

# APPROACH: MILESTONES

Original Deadline	Revised/Actual Deadline	Tasks
October 2009	January 2010	Agreement Executed with DOE
February 2010	November 2010	Agreements Executed with Subgrantees
March 2010	October 2010	100% of NEPA Documentation Submitted
March 2010	April 2011	100% of NEPA Clearance Received
June 2010	September 2010	50% of Vehicle Orders Completed
September 2010	March 2011	50% of Vehicles Deployed
June 2011	January 2013	100% of Vehicle Orders Completed
December 2011	December 2013	100% of Vehicles Deployed
March 2010	July 2011	50% of Infrastructure Development Started
June 2011	October 2011	50% of Infrastructure Development Complete
December 2010	June 2012	100% of Infrastructure Development Started
March 2011	August 2012	100% of Infrastructure Development Complete
August 2012	August 2012	City of Dallas CNG/Hybrid Training Complete
Throughout	Throughout	Marketing, Outreach, and Training Campaign

# ACCOMPLISHMENTS: ADMIN TASKS

## Agreements Executed\*

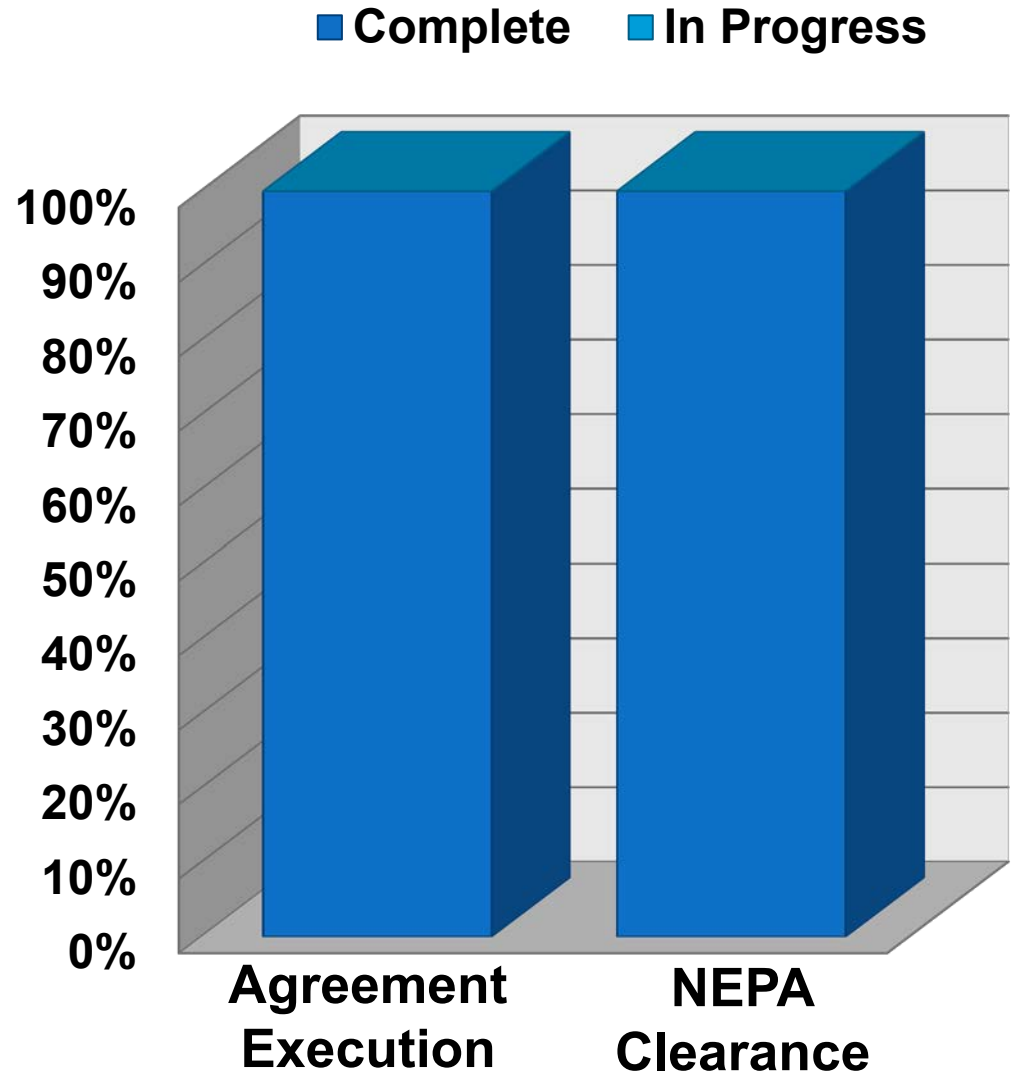
- 17 of 17 Subrecipients

## NEPA Submitted

- 10 of 11 Sites
- Vehicle Purchase and Conversion

## NEPA Reviewed

- 11 of 11 Sites
- Vehicle Purchase and Conversion



(As of March 14, 2012)

\*Reduced From 19 at Previous Merit Review Due to Withdrawal of Project Partners



# ACCOMPLISHMENTS: VEHICLES

## 284 Vehicle Projects Funded\*

- CNG, Electric, Hybrid

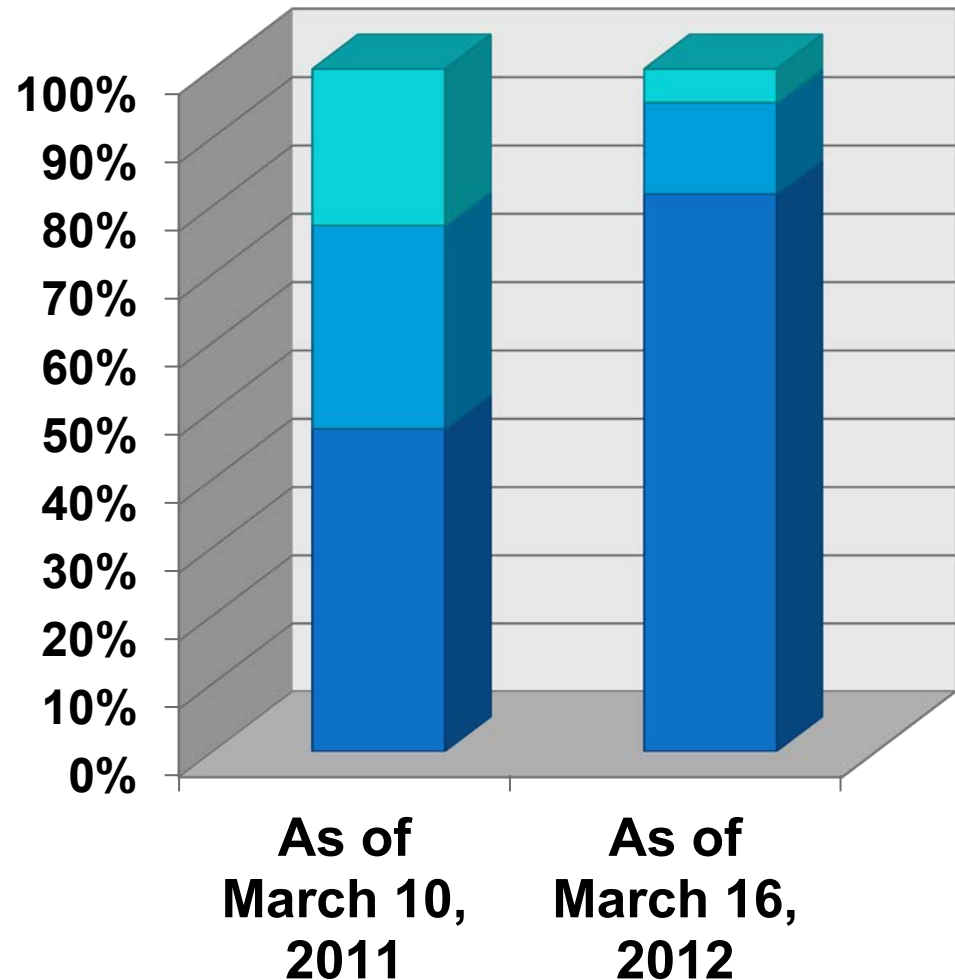
## Vehicles Deployed

- 52 of 77 Light-Duty
- 180 of 207 Med-/Heavy-Duty

## Additional Vehicles Ordered to Date

- 25 of 25 Light-Duty
- 13 of 27 Med-/Heavy-Duty

■ Deployed ■ Ordered ■ Planned



(As of March 14, 2012)

\*Reduced From 376 at Previous Merit Review Due to Withdrawal of Project Partners

# ACCOMPLISHMENTS: REFUELING

## 11 Refueling Sites Funded

- CNG, Electric, Ethanol, Biodiesel

## Operational

- 6 of 11 Refueling Stations

## Site Work Started

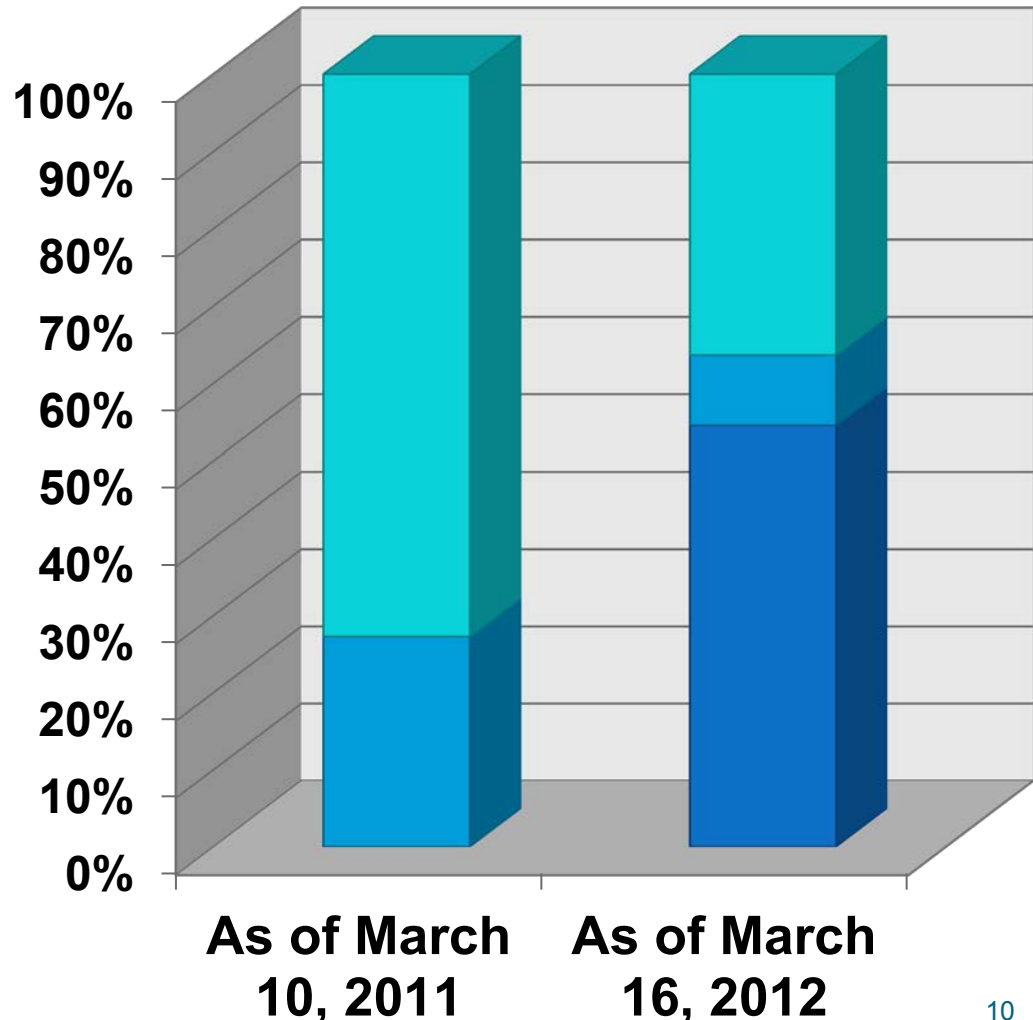
- 1 of 11 Refueling Stations

## Planning/Design/Permitting

- 4 of 11 Refueling Stations

(As of March 14, 2012)

■ Operational ■ Site Work Started ■ Planned



# ACCOMPLISHMENTS: OUTREACH

## Highlights

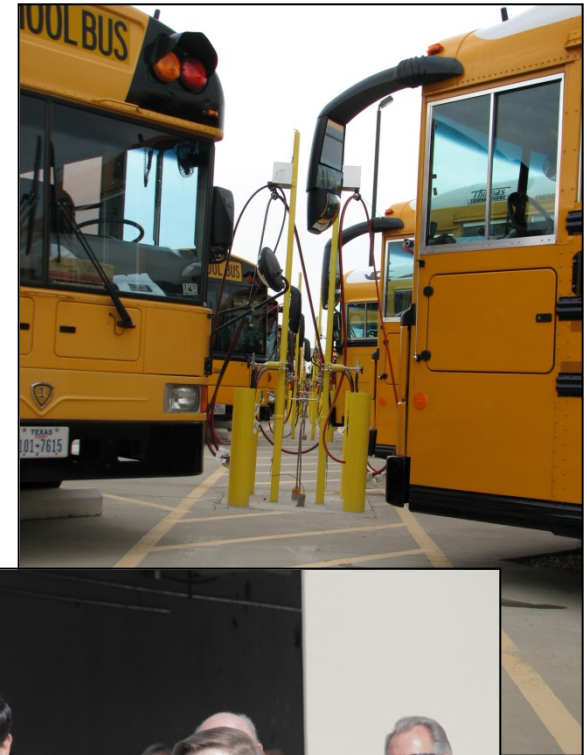
- Clean Air Action Day Alt Fuel Expo
- Denton Fuel Station Opening

## NCTCOG

- Success Stories on Projects
- Promotion at Outreach Events

## Partners

- Presentations
- Press Releases and Articles
- Employee Training and Education
- Decals & Ads on Projects



(As of March 14, 2012)

# **COLLABORATION AND PARTNERS**

## **Private/Nonprofit (44% of DOE Funds)**

**Canteen Vending**  
**Coca-Cola Enterprises**  
**Frito-Lay North America, Inc.**  
**Highway of Hope**  
**New Bern Transport Corp.**  
**PAM Transport, Inc.**  
**Splash Transport, Inc.**  
**Sysco Corporation**

## **Public (56% of DOE Funds)**

**City of Dallas**  
**City of Denton**  
**City of Fort Worth**  
**City of Garland**  
**City of Richardson**  
**City of Southlake**  
**DFW International Airport**  
**Fort Worth ISD**  
**Mansfield ISD**

# **FUTURE WORK (FY2012-2013)**

**Continue Administration and Oversight of Project**

**Complete NEPA Review of Funded Projects**

**Complete Construction of All Infrastructure Projects**

**Deploy Remaining 18% of Vehicle Projects**

**Access “Contingency” List of Approved Projects as Needed**

**Continue Development of CNG/Hybrid-Electric Training**

**Continue Marketing, Outreach, and Training Campaign**

# **SUMMARY**

**Project Enhances Air Quality, Reduces Petroleum Use, and Preserves/Creates Jobs**

**Project is Fuel Neutral and Facilitates Use of a Variety of Alternative Fuels and Advanced Technologies**

**Project Engages a Number of Public, Private, and Nonprofit Interests and Partnerships Remain Strong**

**Overall Project Currently Slightly Behind Schedule**

- **Vehicle Lead Times and Infrastructure NEPA Clearance**
- **Subrecipient Internal Procurement/Approval Processes**
- **Reallocation of Funds**

# SUMMARY TABLE

Tasks	Total # Planned Activities	Through FY 11	FY 11-12 <sup>1</sup>	Percent Change	Percent Remaining
Agreements Executed <sup>2</sup>	17	19	17	-11%	0%
NEPA Submitted <sup>3</sup>	13	13	13	0%	0%
NEPA Reviewed <sup>3</sup>	13	13	13	0%	0%
Vehicles Ordered <sup>2</sup>	284	291	260	-11%	7%
Vehicles Deployed	284	156	232	49%	18%
Site Work Started	11	3	7	133%	36%
Site Work Complete	11	0	6	600%	45%
City of Dallas CNG and Hybrid Training	2	0	0	0%	100%
Marketing, Outreach, Training Campaign	NA	36	75	108%	NA

<sup>1</sup>Cumulative Total

<sup>2</sup>Total # Planned Has Decreased Since FY11 Due to Withdrawal of Project Partners

<sup>3</sup>Some NEPA May Need to be Resubmitted Due to Changes in Projects