

NORTH CENTRAL TEXAS ALTERNATIVE FUEL AND ADVANCED TECHNOLOGY INVESTMENTS

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

OVERVIEW

Timeline

- **Start January 29, 2010**
- **End January 28, 2014**
- **39% of Activities Complete**

Budget

- **Total Project \$35,699,187**
- **DOE Funds \$13,181,171**
- **Cost Share \$22,009,580**
- **37% Federal / 63% Match**
- **32% Expended to Date**

Barriers

- **3rd Party Administration**
- **Timely Implementation**
- **Full Realization of Benefits**

Subrecipient Partners

- **Local Governments**
- **School Districts**
- **Private Sector Companies**
- **International Airport**
- **Non-Profit 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

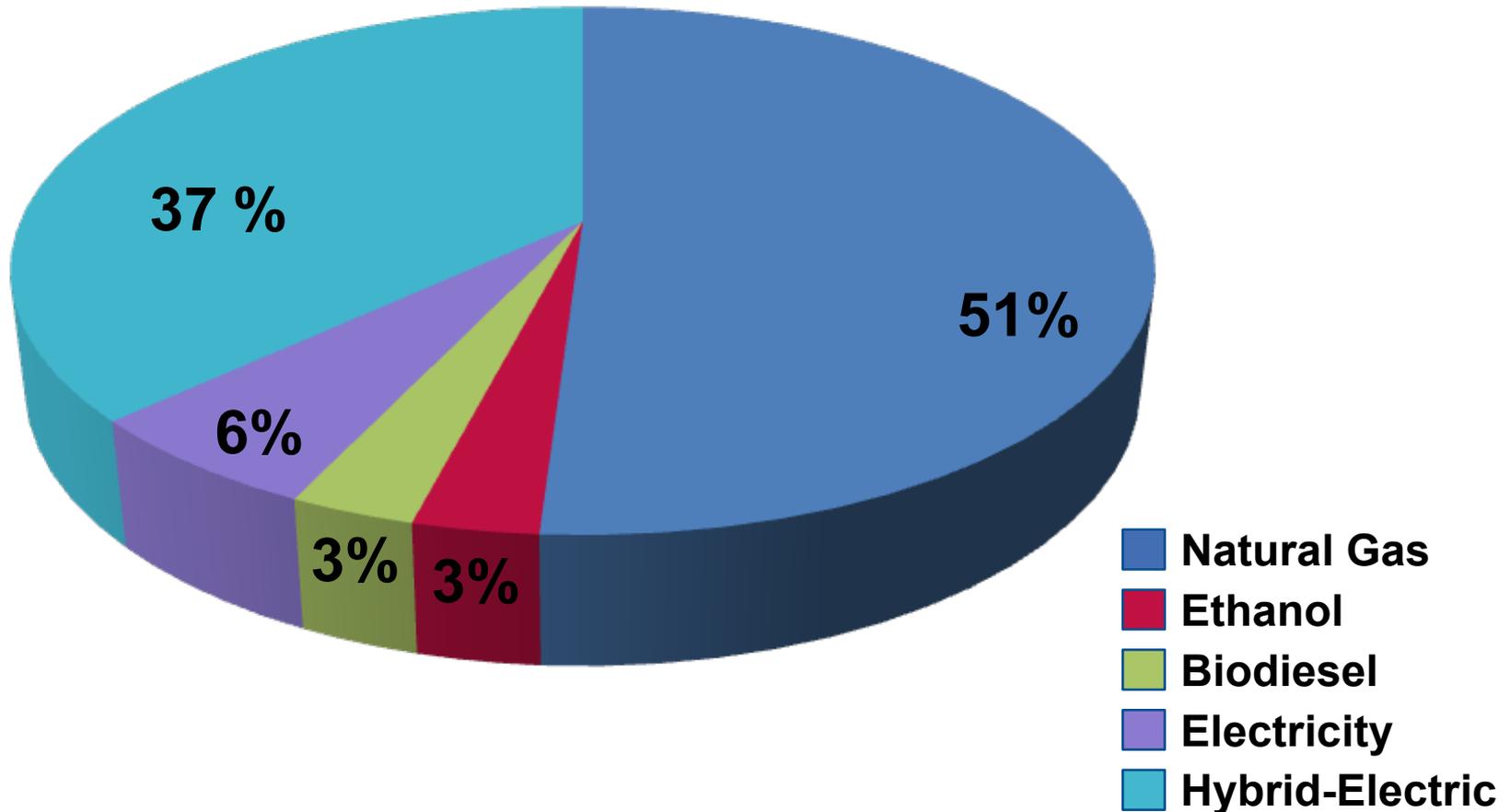
Since Award, Several Projects Have Been Withdrawn and Several Projects Have Been Completed Under Budget

Unexpended Funds (\$211,482) Were Reallocated on a Competitive Basis 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

- 376 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*

- 67.7 Tons Nitrogen Oxides (NO_x) Reduced**
- 4.5 Tons Volatile Organic Compounds (VOC) Reduced**
- 0.8 Tons Particulate Matter (PM) Reduced**
- 1,509 Tons Carbon Dioxide (CO₂) Reduced**
- 1.25 Million Gallons of Petroleum Displaced**

*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	October 2011	100% of Vehicle Orders Completed
December 2011	December 2011	100% of Vehicles Deployed
March 2010	March 2011	50% of Infrastructure Development Started
June 2011	September 2011	50% of Infrastructure Development Complete
December 2010	September 2011	100% of Infrastructure Development Started
March 2011	December 2011	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:

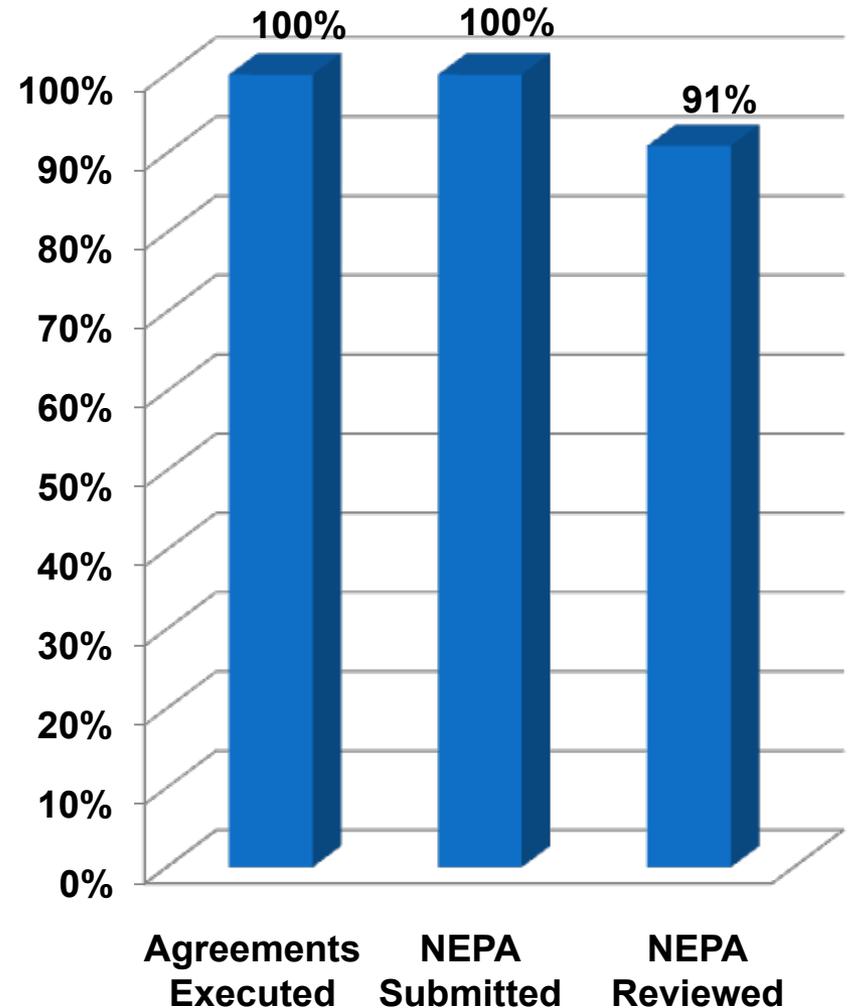
- 19 of 19 Subrecipients

NEPA Submitted:

- 11 of 11 Sites
- Vehicle Purchase and Conversion

NEPA Reviewed:

- 10 of 11 Sites
- Vehicle Purchase and Conversion



(As of March 10, 2011)

ACCOMPLISHMENTS: VEHICLES

376 Vehicle Projects Funded:

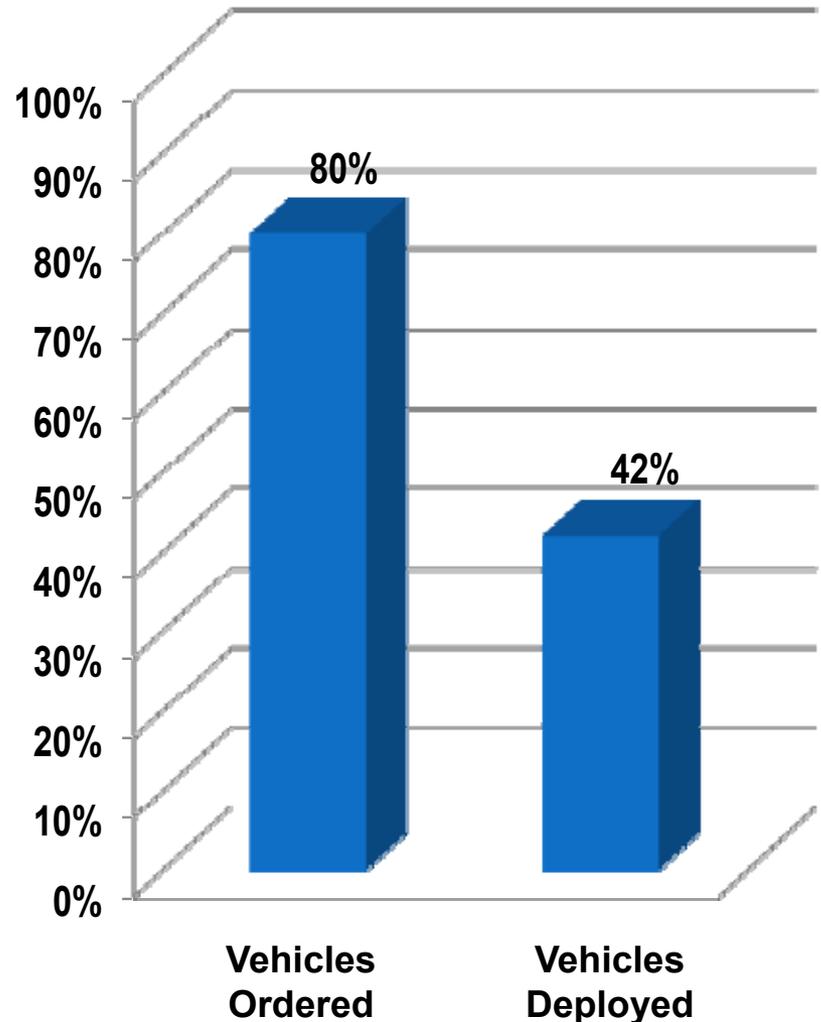
- CNG, Electric, Hybrid

Vehicles Deployed:

- 48 of 178 Light-Duty
- 111 of 198 Med-/Heavy-Duty

Additional Vehicles Ordered to Date:

- 64 of 130 Light-Duty
- 76 of 87 Med-/Heavy-Duty



(As of March 10, 2011)

ACCOMPLISHMENTS: REFUELING

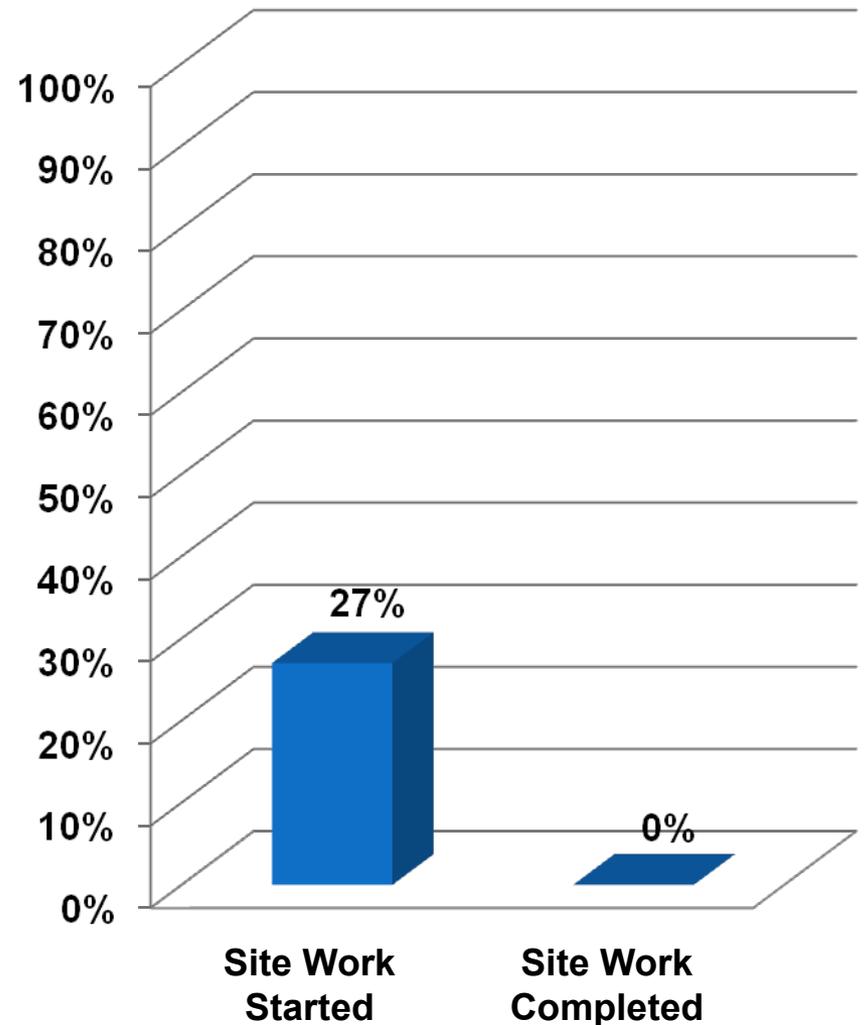
11 Refueling Sites Funded:

- CNG, Electric, Ethanol, Biodiesel

Site Work Started:

- 3 of 11 Refueling Stations

(5 Additional Sites currently in Design, Engineering, Permitting and Contracting Phases)



(As of March 10, 2011)

ACCOMPLISHMENTS: OUTREACH

Highlights:

- Advancing the Choice Event
- EV Showcase at State Fair

NCTCOG:

- 34 Total Events
- 1,670 Total Attendees

Partners:

- Presentations
- Press Releases and Articles
- Training and Education
- Decals on Projects

(As of March 10, 2011)



COLLABORATION AND PARTNERS

**Private/Non-Profit
(46% of DOE Funds)**

Canteen Vending

Coca-Cola Enterprises

Frito-Lay North America, Inc.

Highway of Hope

Irving Holdings/Yellow Cab

New Bern Transport Corp.

PAM Transport, Inc.

Splash Transport, Inc.

Sysco Corporation

**Public
(52% of DOE Funds)**

City of Dallas

City of Denton

City of Fort Worth

City of Garland

City of Lake Dallas

City of Richardson

City of Southlake

DFW International Airport

Fort Worth ISD

Mansfield ISD

FUTURE WORK (FY2011-2012)

Continue Administration and Oversight of Project

Complete NEPA Review of Funded Projects

Complete Construction of All Infrastructure Projects

Deploy Remaining 58% 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 Non-Profit 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 # Activities	FY 09-10	FY 10-11*	Percent Increase	Percent Remaining
Agreements Executed	19	4	19	78%	0%
NEPA Submitted	11	10	11	9%	0%
NEPA Reviewed	11	6	10	67%	9%
Vehicles Ordered	376	123	291	137%	20%
Vehicles Deployed	376	30	156	420%	58%
Site Work Started	11	1	3	200%	73%
Site Work Complete	11	0	0	0%	100%
City of Dallas CNG and Hybrid Training	2	0	0	0%	100%
Marketing, Outreach, Training Campaign	NA	4	36	800%	NA

*Cumulative Total

REVIEWER-ONLY SLIDES

CRITICAL ASSUMPTIONS / ISSUES

Issues	Solutions
<p>Third-Party Grant Administration</p> <ul style="list-style-type: none"> • Timely Completion of Subgrantee Projects • Accurate Completion of Required Reporting • Ongoing Awareness of Marketing Activities 	<ul style="list-style-type: none"> • Continuous Communication with Partners • Reporting Form Templates Provided to Subgrantees • Davis-Bacon Act Reporting Workshop Held for Subgrantees
<p>Subgrantee Project Implementation</p> <ul style="list-style-type: none"> • Lead Time Required for Vehicle Delivery • Availability of Certain Electric Vehicles • Accurate Completion of NEPA Documentation • Internal and Budgetary (Cost Share) Issues 	<ul style="list-style-type: none"> • Continuous Communication with Partners • Communication with Manufacturers • Joint Problem-Solving Exercises
<p>Full Expenditure of DOE Grant Funds</p> <ul style="list-style-type: none"> • Withdrawn Subgrantee Projects • Under-Budget Completed Projects 	<ul style="list-style-type: none"> • Competitive Reallocation of Funds Among Subgrantees • Approval of Contingency Projects for Future Releases of Funds
<p>Realization of Anticipated Benefits</p> <ul style="list-style-type: none"> • Emissions Reduction Benefits • Petroleum Reduction Benefits • Job Creation/Preservation Benefits 	<ul style="list-style-type: none"> • Consideration and Quantification of Benefits as Projects are Modified • Activity Level Reporting Required of Subgrantees (miles, gallons, etc.) to Verify Estimated Benefits

PUBLICATIONS / PRESENTATIONS

Publications

- Beverage World, New Bern Transport Corporation Hybrid Vehicles, May 2010
- Fort Worth Business Press, Fort Worth Part of Frito-Lay's Electric Vehicle Rollout, September 2010
- NCTCOG, Where is the Money Going? A Report on the American Recovery and Reinvestment Act, Summer 2010, www.nctcog.org/trans/outreach/arra.pdf
- NCTCOG, Progress North Texas, July 2010, www.nctcog.org/trans/outreach/sor/
- NCTCOG, Recovery Act Spotlight, DFW Clean Cities New Flash, July 2010, www.nctcog.org/trans/clean/cities/cctc/news/CCNewsJuly10.pdf
- City of Denton, Community Development Summer Bulletin, July 2010
- NCTCOG, Recovery Act Spotlight, DFW Clean Cities New Flash, November 2010, www.nctcog.org/trans/clean/cities/cctc/news/CCNewsNovember10.pdf
- Pegasus News, Denton Builds Alternative Fuel Station Thanks to Grant, August 2010

Presentations

- NCTCOG, American Reinvestment & Recovery Act :Regional Success, Regional Transportation Council, May 2010
- NCTCOG, American Reinvestment & Recovery Act :Regional Success, Surface Transportation Technical Committee, May 2010
- NCTCOG, North Texas Clean Air Coalition Let's Do Lunch Workshop, June 2010
- Coca-Cola Enterprises, Frito-Lay, PAM Transport, and Sysco, Advancing the Choice, August 2010
- Fox 4 News, Coverage of Advancing the Choice and DOE ARRA Subgrantees, August 2010
- NCTCOG, Regional Energy Efficiency and Emissions Reductions Initiatives Roundtable, August 2010
- Electric Vehicles North Texas, Interfacing Electricity and Transportation Networks: The Role of Battery Electric Vehicles and Plug-in Hybrid Electric Vehicles, Third Annual Workshop, October 2010
- Mansfield ISD, Houston NGV Workshop, November 2010
- Frito-Lay, Fleet Sustainability Presentation to Headquarters, Fall 2010