

# Idaho Petroleum Reduction Leadership Project

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Project ID #  
ARRAVT041

# Overview

## Grant Timeline

- Start date - January 2010
- End date - January 2014

## Current Status

- 100% CNG vehicle deployment by Allied Waste
- 50% CNG fueling facilities built
- Remaining infrastructure installed by July 2011

## Budget

- Total project funding
  - DOE \$5,519,862
  - Subrecipient \$6,839,077
- FY2010 DOE funds received \$1,912,647
- FY2010 matching funds spent \$5,706,074

## Barriers and Risks

- State regulations covering resale of natural gas needed revision
- New issue for local permitting authorities

## Partners

- Treasure Valley Clean Cities Coalition (TVCCC)
- Allied Waste<sup>®</sup>, A Republic Services Company<sup>®</sup>

# Relevance

## Project Objectives

**Achieve significant reductions in diesel and gasoline use and vehicle emissions in the Treasure Valley by:**

- **Shifting Allied Waste's diesel fuel use to CNG**
- **Providing CNG fueling opportunities to other fleets and the public**
- **Carrying out a successful outreach and education campaign to encourage other fleets and the public to use CNG**



# Relevance to American Reinvestment and Recovery Act (ARRA) Goals

## This project will:

- **Create and maintain jobs** through the construction of fueling facilities and production of CNG vehicles
- **Spur economic activity** with investments in fueling facilities and vehicles
- **Support long-term economic growth** by reducing fuel costs of fleets and individuals, and establishing a new alternative fuel market in the Treasure Valley
- **Provide environmental benefits** through emissions reductions associated with a fuel shift from diesel and gasoline to CNG

# Relevance to DOE's Vehicle Technologies Program Goals

## This project will:

- **Reduce oil imports** by deploying CNG fuel and infrastructure by partnering with industry and local governments
- **Displace oil** with a domestically produced fuel in a clean and cost-competitive manner
- **Educate** on the benefits of CNG versus gasoline or diesel

# Relevance

## Addressing Barriers

### This project:

- **Instigated the clarification of a Idaho Public Utilities Commission rule to expressly allow resale of natural gas for use in vehicles**
- **Worked through the complex local permitting processes to establish the first public CNG fueling facility in the Boise area.**

These achievements will facilitate the establishment of additional CNG facilities in Idaho.

# Relevance to Other Specific Targets and Milestones

## Shift to CNG Outreach Campaign

The outreach plan calls for a robust outreach effort to fleets and to the public.

### Fleet Outreach

Meetings with local fleet operators regarding a shift to CNG

Video for decision makers

Printed materials

Workshops and special events

### Public Education

Radio PSAs

Billboards

Advertising at local sports events

Website

Social media



# Project Approach

- **Establish an operational CNG fleet for Allied Waste in the Boise area**
  - Develop facilities for fueling Allied Waste's CNG refuse vehicles in the cities of Boise and Nampa (NEPA approvals received)
  - Purchase 29 CNG refuse vehicles, 3 CNG utility pickup trucks and CNG mobile refueling capability for Allied Waste's fleet (NEPA approvals received)
  - Establish CNG vehicle maintenance capabilities at the two fleet locations
  - Provide safety and vehicle maintenance training activities

# Project Approach (continued)

- **Develop public fueling facilities in Boise and Nampa**
- **Conduct an extensive outreach and marketing campaign to promote adoption of CNG by additional fleets and individuals in the area.**



# Approach

## Key Project Milestones

<u>Date</u>	<u>Milestone</u>	<u>Status</u>
August 2009	Allied Waste's fueling facility in Boise completed	Complete
August 2009	Safety training for Allied Waste employees completed	Complete
July 2010	All NEPA approvals for fueling locations and Allied vehicles received	Complete
September 2010	Roll-out of fleet outreach and public education campaigns	Complete
May 2011	Public fueling facility in Boise completed	Complete
July 2011	Allied Waste's fueling facility in Nampa completed	On-schedule
July 2011	Public fueling facility in Nampa completed	On-schedule
September 2011	CNG vehicle maintenance shop retrofit in Nampa completed	On-schedule
September 2011	Safety and maintenance training at Nampa facility completed	On-schedule
January 2012	CNG vehicle purchases by other fleets confirmed	On-schedule

# Technical Accomplishments and Progress since May 2010

- **CNG safety and maintenance training for personnel at Allied Waste's Boise facility began in August 2009 and continues as needed**
- **NEPA documentation and approvals completed for fueling facility locations and vehicle purchases in July 2010**
- **CNG vehicles deployed for Allied Waste**
  - **23 additional trash trucks, 3 pickup trucks (2 with mobile fueling units) by April 2011**

# Technical Accomplishments and Progress since May 2010 (continued)

- **Boise public fueling location opened in May 2011**
- **Allied Waste's Nampa CNG fueling facility is under construction**
- **Public fueling facility in Nampa is under construction**
- **Outreach and marketing plans have been prepared and are being carried out.**

# Collaborations/Partnerships

## Grant partners

- **Treasure Valley Clean Cities Coalition**
- **Allied Waste** - in addition to installing fueling facilities and buying vehicles, Allied Waste is assisting with outreach and providing technical assistance to other fleets.

## Other organizations have stepped up

- **City of Boise** - assistance with grant administration
- **Valley Regional Transit** - assistance with outreach and purchase of 26 new CNG buses
- **Intermountain Gas Company<sup>®</sup>** - assistance with outreach



# Future Work

<b>FY2011 remaining activities</b>	<ul style="list-style-type: none"><li>• Complete Allied Waste's fueling facility in Nampa</li><li>• Modify Allied Waste's maintenance shop for CNG in Nampa</li><li>• Complete public fueling facility in Nampa</li><li>• Continue to conduct outreach to area fleets, vehicle dealers and the public</li></ul>
<b>FY2012 activities</b>	<ul style="list-style-type: none"><li>• Continue to conduct outreach to area fleets, vehicle dealers through January 2012</li><li>• Continue public information campaign through January 2012</li></ul>
<b>FY2013-2014 activities</b>	<ul style="list-style-type: none"><li>• Continue all required monitoring and reporting</li></ul>

# Project Summary

- **Will have completed all key activities within the allotted two year period.**
  - Installation of four fueling facilities
  - Deployment of 32 CNG vehicles
  - Carried out outreach campaigns for fleets and the public
- **Overcame the major barrier to establishing CNG as a fueling option in Idaho**
- **Installed the first public CNG fueling facility in the Boise area.**



# Project Summary

## (continued)

- **Significantly reduced diesel use by one of the region's largest fleets, Allied Waste. Within 5 years, Allied Waste's Treasure Valley fleet of 115 vehicles will be operating entirely on CNG.**
- **Facilitated the wide scale use of CNG by Republic Services, one of the largest waste haulers in the country. Republic Services is planning the installation of 10 additional CNG facilities and purchasing more than 200 CNG refuse vehicles for other locations across the United States.**

# Project Summary

## (continued)

- **Allied Waste's shift to CNG serves as an excellent example for other fleets in outreach activities.**
- **The robust outreach campaign is clearly heightening local awareness about CNG as an alternative to gasoline or diesel fuel.**
- **The commitment to this project by the partners has contributed to the project's success.**

**This project is creating a significant impact in Idaho.**