



*the Energy to Lead*

# Lake Michigan Corridor Alternative Fuel Implementation Initiative

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Gas Technology Institute (GTI)

Green Drive\$ 2014

# Project Summary

## Project Objectives

- Target and remedy identified obstacles to AFV adoption and use in key regional area - Lake Michigan Corridor
  - 9.8 million people, 11 counties in EPA non-attainment
- Address four major initiatives:
  1. Policies
  2. Barrier Reduction
  3. Safety and Training
  4. Market Development and Outreach

### Task 2: Policy Initiatives

- 2.1: Shared/Public Access of Municipal Stations
- 2.2: Inspection Criterion for Alt. Fuel Vehicles
- 2.3: Creation of Green Fleet Program (Indiana)
- 2.4: Document Success and Quantify Impact
- 2.5: Generation of Smart Green Purchasing Policy

### Task 3: Barrier Reduction Initiatives

- 3.1: Weights and Measures Education, Training
- 3.2: Vehicle Deployment Toolkit
- 3.3: Identify Local Regulatory Barriers (Survey)

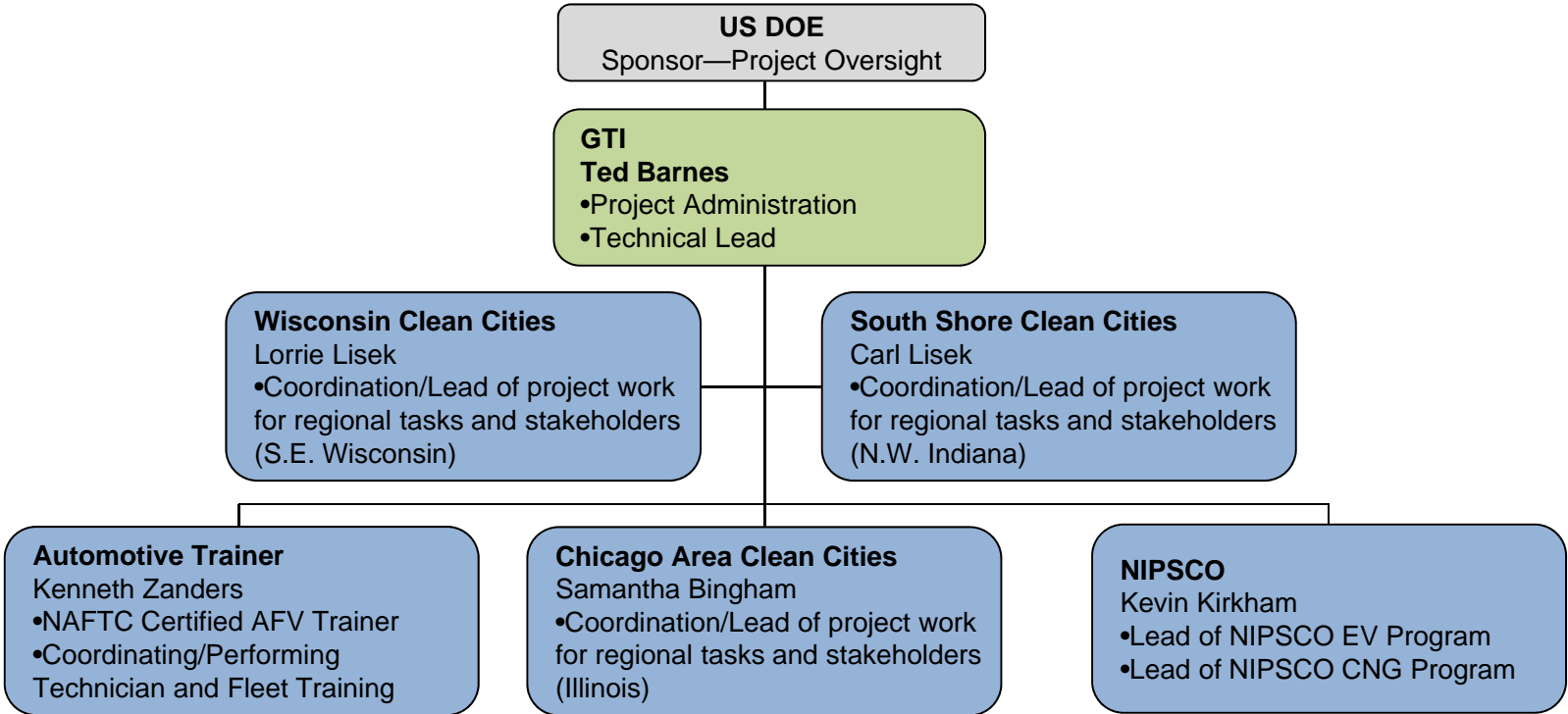
### Task 4: Safety and Training Initiatives

- 4.1: Establish Community College Courses
- 4.2: Certification/Training Centers at CC's
- 4.3: Fire Marshal/Code Official Station Workshops
- 4.4: Support Existing (1st Responder) Programs
- 4.5: Training Material for Conversion Compliance
- 4.6: Guidelines for Garage and Maintenance Shops

### Task 5: Market Development and Outreach

- 5.1: Direct Ed. and Outreach to Industries
- 5.2: Direct Ed. and Outreach to Transit Agencies

# Team Members



- Other Stakeholders involved in project successes: Regional Transit Authority (RTA), CTA, Transpo, Southeastern Wisconsin Regional Planning Commission, Northern Indiana Regional Planning Commission

# Project Progress

## Webinar Series

- I. Inspection Guidelines for CNG/LPG Vehicle Conversions
- II. Considerations for Garage & Maintenance Shops When Using CNG/LPG
- III. Station Installation Guidelines for CNG
- IV. Station Installation Guidelines for LPG
- V. Best Practices for End Users for CNG, LPG & Electric Vehicles

The webinars and slides are available online at [www.wicleancities.org/webinars.php](http://www.wicleancities.org/webinars.php)

## Barriers Survey

Survey to gather barriers for adoption of alternative fuels

Please complete the survey at:  
[www.wicleancities.org](http://www.wicleancities.org)

# Progress - Policy Initiatives

## Opening Access to Private Stations

### One Municipal Station Opened to Public

Ideal situation for gathering “Lessons Learned”

### Survey Additional Potential Locations

Several surveys have been completed to gather key barriers, questions, and needs

## Vehicle Inspection Criteria

### Developed Safety Checklist

Vetted with industry experts

### Performed webinars for local CNG and Propane stakeholders

## Create Green Fleet Program in NW Indiana

### Program Developed and Commenced

Endorsed by both US Senators, local Congressman, and supported by the local MPO - Northern Indiana Regional Planning Commission



# Progress – Barrier Reduction Initiatives

**Weights and Measures Education**

**Developed Guidelines and Lessons Learned Document**

**Identified Audience for Regional Authorities**  
Each state is handling CNG W&Ms differently

**Vehicle Deployment Toolkit**

**Performed webinars to local stakeholders**

Topics Covered: Station and Vehicle Education, Safety, and Typical Uses for CNG, EV, Propane

**Identify Local Regulatory Barriers**

**Developed Survey for Local Stakeholders**  
Emailed to all stakeholders; completion incentives

**Survey Results Being Gathered and Evaluated**

# Progress – Safety and Training Initiatives

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## Auto Technician Training Courses

### Providing Hybrid Training for Local Fleets

18 training sessions have been given to local fleets and technicians

## Fueling Station Workshops– Code Officials

### Workshop Material Generated

Vetted with industry experts

Performed AFV station webinars

## Maintenance Garage Upgrade Guidelines

### Developed Guidelines for Shop Compliance

CNG and LPG were main concentrations

Performed Webinar for Local Stakeholders

# Progress – Market Development

## Education and Outreach to Industries

**Taxi Industry: Spoke on local NPR Affiliate**

**Heavy Industrial: Ready-Mix Cement**

Provided Support for Grand Openings of Ozinga Station and reached out to another large Ready-Mix company

**Webinar Series Educated Variety of Industries**

**NIPSCO (IN Utility) Provide EV Outreach**

Community Events and Website Education

## Education and Outreach to Transit Agencies

**Significant Progress at PACE**

Chicago Area: Meeting with RTA provided education on CNG transit buses

**Significant Progress at Transpo**

Northern Indiana: Transpo will be introducing CNG buses by the end of 2014



# Summary / Key Impacts

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- **Unique combination of closely-linked, successful coalitions/coordinators and technical expertise**
- **High-impact region that is experiencing growth in alt. fuel use but needs support/champions. Lake MI Corridor includes:**
  - 3 long standing coalitions; 500 member organizations
  - Serve geographic population of over 9.8 million people
  - 11 counties in non-attainment status for the U.S. EPA 2008 Ground Level Ozone standard
  - Alternative fuel corridors and hot spots
- **Efforts are based on real-world barriers that need solving**
  - Based on past deployment program successes
- **Webinars and documents generated are available for local fleets**