Introducing Propane to your Fleet

- Awareness/Education
- Vehicles/Equipment
- Fueling Infrastructure
- Implementation
- Sustainability
- Expansion









Awareness

Education – Find Opportunity

- ALL Employees
- Properties; Gasoline vs. Propane
- Savings
- Environment
- Safety; PPE

Training

- Evaluate Current Experience
- Identify Needs



Implement and Maintain



Vehicles/Equipment

Conversion of Existing Fleet

- EPA Certifications
- Late Model Vehicles/Equipment
- Large Quantity of Similar Fleet
- Engine Performance

Acquisition of new fleet

- Analysis; ROI
- Don't Get Desperate; Research







Vehicles/Equipment

Operational Requirements

- Bi-Fuel or Dedicated
- Fuel Capacity/Range
- Functionality
- Tank Placement











Vehicles/Equipment

Specifications

- Contractor Responsibilities
- Pre Qualifications
- Compliance; EPA, CARB, FMVSS, NFPA 58
- Component Durability/Longevity
- Quality Workmanship
- Warranty
- Training/Support
- Accountability









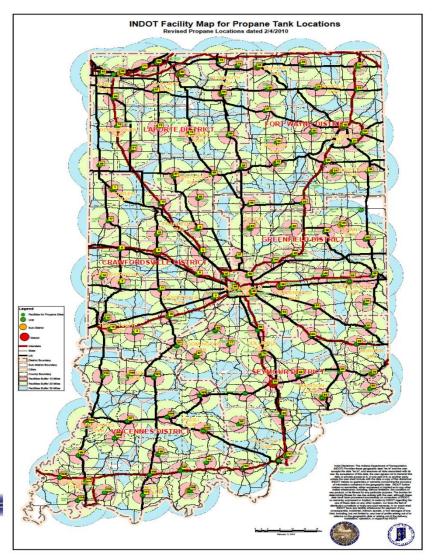
Fueling Infrastructure

Fueling the Fleet

- Scope
- Coverage
- Accessibility







Fueling Infrastructure

Business Requirements

- Fuel Management Software
- Internal Workflows

Specifications

- "Turn Key" Package?
- Contractor Responsibilities
- Accountability
- State Code Interpretation
 - NFPA, International Fire Code, and UL Listings







Fueling Infrastructure

Fuel Management

- Contract Development/Requirements
- Pricing
- Distribution
- Inventory Management
 - Virtual vs. Physical







Implementation

- Develop Plan
 - Establish Achievable Goals
 - Minimize Operational Impact
 - Assign Responsibility
 - Integrate Training/Education











Sustainability

- Commitment
- "Champion"
- Accountability
- Recognition of Success
- Continue to Educate









Expansion

Future Opportunities

- Funding Grants/Tax Incentives
- Replacement of Fleet
- Technology Development Pilot









Propane Overview

- 530 Existing Vehicles Converted
- 115 Fueling Sites
- 78 Vehicles to be converted by Fall, 2011
- 40 Dedicated Vehicles by Spring, 2012
- Projected Annual Fuel \$aving\$ Exceed \$1 Millon!



Compressed Natural Gas (CNG)

- 19 Kenworth T440 T/A Dumps
 - Cummins ISL CNG Engines (75DGE)
- Utilizing Commercial Infrastructure
- 50K Gallons/Year
- \$aving\$ \$150K





Questions?

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