



**2009 Alternative Fuels & Vehicles  
National Conference + Expo**

# **Finding the Right Fit**

**Putting the Pieces Together for the Future  
with Alternative Fuel Vehicles**



# Looking For Answers

- **Allan Griffin**
  - **Assistant Director of Transportation**
    - **Humble Independent School District**
  - **93 square miles**
  - **Transporting 12,000 students daily**
  - **130 General Ed routes**
  - **45 Special Ed routes**
  - **36 Schools with 2 Opening Aug 2009**



# Ready for a Change

- **Where Humble ISD is now**
  - 208 General Education Buses
  - 78 Special Education Buses
  - 251 diesel engines
  - 35 gasoline engines
  - Conventional
  - Transit
  - Type A



# Future Needs Defined

- **Procurement Schedule for 4 years**
  - 2009—27 Buses
  - 2010—19 Buses
  - 2011—19 Buses
  - 2012—30 buses
- **Based on Replacement Schedule with a 20 year life cycle**
- **Anticipated Population Growth Rate of 5%**
- **Second Transportation Center in 3 Years**



# Looking At Options

- **Opportunity to Choose a New Direction**
  - **Diversify Fuel Sources**
  - **Educate the Community/Students**
  - **Health Benefits for Children**
  - **Grant Funding Opportunities**
  - **Public Relations Bonus**
  - **Cost Savings**
  - **Less Maintenance/No After Treatment**
  - **Reduce Dependence on Foreign Oil**



# Choices, Choices, Choices

**Stick with 2010 Clean Diesel Technologies and/or**

- **No Infrastructure Changes**
  - Biodiesel
  - Hybrid
- **Bigger Investment—Bigger Return**
  - Propane
  - Natural Gas



# Beyond The Bus

- Lead Other Departments to AFVs
  - Pickup Trucks
  - Cargo Vans
  - Sedans
- Partner with Other Organizations?
  - City of Humble Fleet
  - Nearby Airport Parking Facilities
  - Nearby Waste Disposal Site

