Wisconsin Propane Autogas Roundtable

GO Riteway Transportation Group
Oak Creek, WI
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VP Operations
Advanced VTech
Advanced VTech
Advanced Vehicle Technology Services

• Advanced VTech (for short)

• We are a full service auto and truck maintenance organization specializing in:
  – General vehicle maintenance and repair
  – Commercial fleet maintenance services
  – Complete Alternative Fuel Services
    • CNG & LPG Installation
    • CNG & LPG Maintenance
    • Fuel System Inspections
Propane AutoGas

Liquified Petroleum Gas (Propane, LPG, or AutoGas)
Propane, LPG, or AutoGas

- Formula C3H8.
- Byproduct of petroleum refinement.
- Extensive distribution system, especially in rural areas.
- Lower emissions (20% less than Gasoline engines).
- On average $1 to $2 per gallon less in cost than Gasoline.
- Fueling tank and pump often provided by LPG supplier (for onsite fueling of vehicles).
Propane System
Quality and Skill of Installation
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Define Parameters for Successful Applications

1. Compliant with Safety & Environmental Regulations
2. Must not negatively impact vehicle performance
3. Lower operating or maintenance costs
4. Decrease emissions foot print
Compliant with Safety & Environmental Regulations

1. Department of Transportation (Tanks)
2. National Fire Protection Association (58)
3. US EPA / California Air Resources Board Certified
Vehicle Performance

1. Bi-Fuel Systems
2. Computer Controlled Systems or Performance Proven
3. Experience matters
Operating Savings
Operating Savings

- **Service Life:** 2014-2018 Schaumburg, IL Police Department
- **Driven** 126,500 miles
- **Engine Idle Time:** 13,700 hours
- **Engine Drive Time:** 4,500 hours
- **Gasoline used at idle:** 5,100
- **Gasoline used while driving:** 7,900
Operating Savings (continued)

- USEIA Weekly 4-23-18: $2.90/gal for gasoline
- Current Price for LPG for small fleet after tax credit: $0.92 per gallon
- 80% displacement of gasoline (energy content and warm up)
10,400 gallons of gasoline displaced with propane at a savings of $1.98 per gallon, resulting in $20,600 savings over four years or $5,150 per year
Why Propane?

- Propane fuel used since WWII.
- Propane fuels are being used by Police fleets across the nation.
- Fleets around the world have converted almost every vehicle platform.
- Cost savings are measurable and significant.
- Technology is currently being used in the Chicagoland Area.
Alternative Fuels Education

- Technician Internship
- University Outreach
Alternative Fuels Education
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• Thank you for your time!
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