



Clean Fuel Profile: Propane

Please note that this information is for reference only to provide general information and rough cost estimates associated with converting a fleet's operations to propane. Fleets are encouraged to contact suppliers directly for exact costs related to their specific operations. Information on specific suppliers is included for reference only and is not an endorsement by the Regional Planning Commission or the Southeast Louisiana Clean Fuel Partnership for specific fuel/ vehicle/ conversion supplier. Fleets are encouraged to research suppliers before entering into a contract with them, performing the same due diligence they would for any other contract.

Cost of Propane as a Transportation Fuel

Fuel	National Average	Gulf States Average
Propane at Private Stations (per gallon)	\$1.70	\$1.25
Gasoline (per gallon)	\$1.91	\$1.64
Diesel (per gallon)	\$2.61	\$2.27

Based on the US Dept. of Energy's April 2020 Alternative Fuel Price Report:
https://afdc.energy.gov/files/u/publication/alternative_fuel_price_report_april_2020.pdf

Notes:

- Typically, a fleet sees about a 10% reduction in fuel efficiency with propane.
- Prices may vary with a fueling contract.
- USDOE's Vehicle Cost Calculator allows fleets to compare the cost of owning and operating various vehicles over a vehicle lifetime: www.afdc.energy.gov/calc.

Available Financial Assistance & Incentives

Contact Courtney Young, Southeast Louisiana Clean Fuel Partnership Coordinator, for additional information on these opportunities: (504) 483-8519 / slcfp@norpc.org

- **Louisiana Alternative Fuel Vehicles (AFVs) and Fueling Infrastructure Tax Credit**
 - Louisiana offers an income tax credit of:
 - 50% of the cost of converting a vehicle to operate on an alternative fuel
 - 50% of the incremental cost of purchasing an AFV; or 10% of vehicle cost up to \$2,500
 - 50% of the cost of alternative fueling equipment
 - Only AFVs registered in Louisiana are eligible
 - Credit applies to Louisiana taxable income
 - [Louisiana Administrative Code Title 61 Section 1913 - Last amended April 2020](#)
- **EPA Clean Diesel Program:**
 - Only for Diesel vehicles
 - Available annually through both an annual National Competition (www.epa.gov/cleandiesel/grantfund.htm) and through the State: Louisiana Dept. of Environmental Quality (www.deq.louisiana.gov/page/dera-funding-opportunities)
 - State Contact: Vivian Aucoin: (225) 219-3482 / Vivian.aucoin@la.gov
 - Grant & Match amount varies depending on the project
- **Louisiana Liquefied Petroleum Gas Commission Incentive for Mowers & Vehicles**
 - Minimum of three vehicles
 - New Vehicles: \$1,500 per vehicle



- Conversions: Up to \$800 per conversion
- Limit of up to four (4) awards and \$5,000 per year per entity
- Contact: Randy Hayden: (225) 763-8922 / randy@ccilouisiana.com

Vehicle & Conversion Information (Estimated Costs, Timeline, Technical Assistance)

Conversion systems must be certified by EPA as compliant with emissions standards. Certifications are specific to vehicle make, model and year. EPA maintains a [list of certified alternative fuel conversion systems](#).

Additional information on propane vehicles and conversions is located on the US Dept. of Energy's Alternative Fuel Data Center: www.afdc.energy.gov/vehicles/propane_availability.html and on the Propane Education Resource Council's website: <https://propane.com>.

For additional information regarding vehicle conversions and regulations, please see the US Dept. of Energy's Alternative Fuel and Advanced Vehicle Data Center (AFDC) Vehicle Conversions page: www.afdc.energy.gov/vehicles/conversions.html.

Company: ROUSH CleanTech (www.ROUSHcleantech.com)

Contact: Todd Mouw: (734) 466-6522 / todd.mouw@roush.com

- ROUSH products include both New Vehicles & Conversion Kits.
- Vehicle Purchase: Purchase directly through Ford dealerships.
- Warranty: Vehicles purchased from Ford dealer are covered by standard vehicle warranty.
- Cost Estimates:
 - New Vehicles: Approximately \$10,500 more for a Propane F-250.
 - Conversions: Approximately \$10,500 – based on the conversion of a 2012 or newer F-250 (6.2L engine)
- Warranty: 3 year / 75,000 mile parts and labor warranty.

Company: Alliance Autogas / Blossman Autogas (www.allianceautogas.com)

Contact: Jeff Leahy: (704) 682-8484 / jleahy@allianceautogas.com

- Alliance sells conversion kits. They can either work with a local installer or train the fleet's technicians to install the conversion kits.
- Time to convert a vehicle: Normally about a day or two to convert a vehicle/ 2-3 week turnaround on appointments.
- Training: They offer training for technicians who service the fleet.
- Technical Assistance after conversion: Will provide technical assistance to in-house mechanics or to service facility.
- Cost of Conversion: \$5,600 (includes kit, tank & installation).

Company: ICOM Alternative Fuel Systems (www.icomnorthamerica.com)

Contact: David Griffin, S.E. Autogas Specialist: (248) 573-4934 / davidg@icomnorthamerica.com

- ICOM can convert vehicles at fleet's facility and provide mechanic training.
 - Can convert before it's delivered and invoice together or separate
- Time to convert a vehicle: 1 week turnaround after equipment and vehicle arrive; 3-4 weeks to ship the system.
- Dealer: Big 10 Tire Pros & Accessories located in Jackson, MS.
- Cost Estimates:
 - V10 engine = \$9,500
 - V8 engine = \$7,500
 - V6 engine = \$7,000



Fueling Infrastructure

The US Dept. of Energy's Alternative Fuel Data Center (AFDC) includes information on **propane fueling infrastructure**: www.afdc.energy.gov/fuels/propane_infrastructure.html.

The AFDC **Station Locator** notes the location of public and private propane stations: www.afdc.energy.gov/fuels/propane_locations.html

The following propane companies offer fueling infrastructure for fleets within SLCFP's region:

Company: Amerigas (www.amerigas.com/autogas)

Contact: Jefferson Parish Amerigas Office: (504) 835-0765

- Cost of Fueling Infrastructure:
 1. Cost of fueling equipment (tank, dispenser) can be integrated into fueling contract.
 2. Fleet pays for site prep (e.g. electrical, crash posts, and cement pad).
 3. Amerigas will pay for permitting and all other installation costs.
- Fuel Management: System can be set up to interface with the fleet's fuel management system.

Company: Alliance Autogas / Blossman Autogas (<http://www.allianceautogas.com>)

Contact: Jeff Leahy: (704) 682-8484 / jleahy@allianceautogas.com

- Cost of Fueling Infrastructure:
 1. Depending on fleet size, the equipment can be leased to the fleet for \$1 per year.
 2. Fleet pays for site prep (e.g. electrical, crash posts, and cement pad).
 3. Blossman will pay for permitting and all other installation costs
- Fuel Management: System can be set up to interface with fleet's fuel management system.

Company: Ferrellgas (www.ferrellautogas.com)

Contact: Rob Little: robertlittle@ferrellgas.com

- Cost of Fueling Infrastructure:
 1. Cost of fueling equipment can be integrated into fueling contract.
 2. Fleet pays for site prep (e.g. electrical, crash posts, and cement pad)
 3. Ferrellgas will pay for permitting and all other installation costs.
- Fuel Management: System can interface with the fleet's fuel management system.

Local Propane Fleets

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| <ul style="list-style-type: none"> ▪ <u>Rotolo Consultants Inc.</u> <ul style="list-style-type: none"> - Vehicle Type: Heavy-Duty - Number of Vehicles: 75 - Annual GGE Reduced: 61,317 gal - Annual Emissions Reduced: 24 tons ▪ <u>UPS</u> <ul style="list-style-type: none"> - Vehicle Type: Heavy-Duty - Number of Vehicles: 81 - Annual GGE Reduced: 362,024 gal - Annual Emissions Reduced: 142 tons | <ul style="list-style-type: none"> ▪ <u>Airport Shuttle</u> <ul style="list-style-type: none"> - Vehicle Type: Shuttles - Number of Vehicles: 22 - Annual GGE Reduced: 19,344 gal - Annual Emissions Reduced: 27 tons ▪ <u>Jefferson Parish Transit</u> <ul style="list-style-type: none"> - Vehicle Type: Shuttles - Number of Vehicles: 17 - Annual GGE Reduced: 80,385 gal - Annual Emissions Reduced: 114 tons |
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Other Fleets utilizing Propane:

Case Studies on fleets currently using propane can be found on the US Dept. of Energy's Alternative Fuel Data Center: www.afdc.energy.gov/case (select "Propane" under Fuel/Technology). The Case Studies can also be searched by application (e.g., law enforcement). The Clean Fuel Partnership can connect you to the Clean Cities coordinators involved in these case studies to learn more from their experiences.

- Baton Rouge School District Adds Propane Buses to Its Fleet :
www.afdc.energy.gov/case/2648
Contact: Ann Vail, Louisiana Clean Fuels: ann@louisianacleanfuels.org
- Delaware Transit Corporation Adds Propane Buses to Its Fleet:
www.afdc.energy.gov/case/2167
Contact: Kathy Harris, Delaware Clean Cities Coalition: kathleen.harris@state.de.us
- Alabama Prisons Adopt Propane, Establish Fuel Savings for Years to Come:
www.afdc.energy.gov/case/2543
Contact: Mark Bentley, Alabama Clean Fuels Coalition: mark@alabamacleanfuels.org
- Texas Law Enforcement Vehicles Fill Up with Propane: www.afdc.energy.gov/case/1563
Contact: Elizabeth Munger, Lone Star Clean Fuels Alliance: elizabeth@lonestarcfa.org
- Virginia Converts Vehicles to Propane in Spotsylvania County:
www.afdc.energy.gov/case/1283
Contact: Alley Harned, Virginia Clean Cities: aharned@vacleancities.org

Additional Resources

- **Alternative Fuel Data Center:** www.afdc.energy.gov/fuels/propane.html
- **Propane Education Resource Council:** www.propanecouncil.org
- **Louisiana Propane Gas Association:** www.lapropane.org
- **Louisiana Liquefied Petroleum Gas Commission:** www.louisianapropane.com