



Clean Fuels & Electrification

High-quality and Dependable Engineering & Integration Services

Fontaine Modification is equipped to engineer and integrate a variety of clean fuels and electrification solutions for your Class 4 to Class 8 commercial vehicles. We are capable to integrate these solutions onto new vehicles as well as retrofitting and repowering existing vehicles.



"Fontaine Modification's various systems show that EVs can be effectively tailored to meet the needs and requirements of a wide range of commercial fleet applications."

Clean Fuels Michigan



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We offer:

- ▶ Full-service Clean Fuels & Electrification integration services.
- ▶ An experienced, flexible, stable workforce.
- ▶ Strong engineering expertise. We are an engineering-based integrator.
- ▶ Strategic locations for optimized logistics and quick delivery.
- ▶ Credibility with commercial fleets, OEMs, dealers, and truck equipment manufacturers.
- ▶ Financial strength to back our work.

Electrification Solutions for Commercial Trucks and Buses

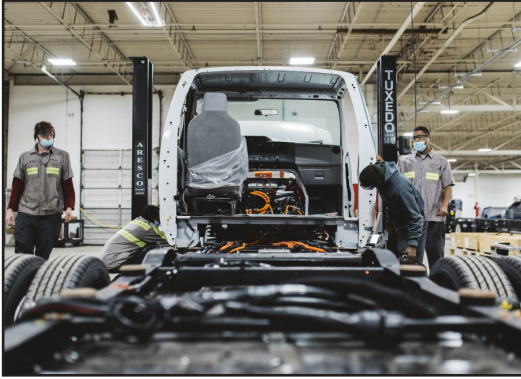
- ▶ BEV (Battery Electric Vehicles)
- ▶ FCEV (Fuel Cell Electric Vehicles)
- ▶ HEV (Hybrid Electric Vehicles)

Commercial vehicle applications include:

- ▶ Delivery trucks
- ▶ Shuttle buses
- ▶ School buses
- ▶ Class 8 tractors
- ▶ Airport ground support equipment
- ▶ Zero-emission refrigerated trailers
- ▶ Cranes
- ▶ Refuse Trucks

“Fleets considering transitioning to any form of electric propulsion should take the time to understand and feel confident in the capabilities of the partners they intend to work with. A deep knowledge and understanding of the operating requirements of commercial vehicles and commercial fleets should be a primary consideration when evaluating electrification suppliers and integration partners.”

Dave Brosky, Vice President of Business Development, Fontaine Modification



BEV (Battery Electric Vehicles)

Fontaine Modification handles hundreds of applications for trucks and buses for major fleets in the U.S. and Canada. We have integrated vehicles for innovators of all-electric medium-duty trucks and buses. Projects include step vans, cargo vans, work trucks, school buses, and shuttle buses.

HEV (Hybrid Electric Vehicles)

Fontaine Modification has the production and engineering resources and locations ready to convert vehicles to hybrid configurations.

HEVs are powered by an internal combustion engine and one or more electric motors that uses energy stored in a battery. The vehicle is fueled with gasoline to operate the internal combustion engine, and the battery is charged through regenerative braking, not by plugging in.



FCEV (Fuel Cell Electric Vehicles)

Similar to conventional internal combustion engine vehicles, FCEVs can fuel in less than 4 minutes and have a driving range over 300 miles. They are more efficient than conventional internal combustion engine vehicles and produce no tailpipe emissions — they only emit water vapor and warm air.

FCEVs are fueled with pure hydrogen gas stored in a tank on the vehicle. They use a propulsion system, where energy stored as hydrogen is converted to electricity by the fuel cell. FCEVs are equipped with other advanced technologies to increase efficiency, such as regenerative braking systems that capture the energy lost during braking and store it in a battery.



“Medium- and heavy-duty fleets account for a third of global diesel demand, meaning the transition to alternative fuels and electric vehicle fleets would have a significant impact on diesel demand and air quality. Electrifying trucks and other large vehicles offers an opportunity to reduce air pollution, save money, and use the latest technology.”

Clean Fuels

Work-Ready Vehicle Solutions

The Fontaine Modification Engineering Team supports your needs to optimize system integration, system packaging, and mechanical installation. Our engineers stay ahead of the market in integration methods. We offer:

- ▶ **CNG (Compressed Natural Gas)**
- ▶ **LPG (Liquified Propane Gas)**
- ▶ **LNG (Liquid Natural Gas)**
- ▶ **Biodiesel Conversions**

Our understanding of existing OEM platforms allows us to professionally install even the most complex fuel systems. We develop detailed work instructions for every installation and install only EPA certified fuel systems. This allows us to consistently deliver safe, reliable, and emissions compliant solutions to our customers. We are certified to install alternative fuel engines, fuel delivery systems, and complete packages at our 10 service centers across the United States.



SERVICES INCLUDE:

- ▶ **Complete engine installations and changes.**
- ▶ **Fuel tank packages for CNG, LNG, or LPG.**
- ▶ **Methane detection systems.**
- ▶ **Installation of complete alternative fuel packages.**

We handle more than 3,000 CNG upfits annually. We work with the OEMs to ensure their systems are correctly specified for applications before the trucks or fuel systems are built, including:

- ▶ Installations of CNG back-of-cab tank cabinets
- ▶ CNG dual side saddle tanks systems
- ▶ CNG powered APUs and LNG saddle tank fuel systems



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Fontaine Modification, established in 1985, is North America's most comprehensive, engineering-focused provider of post-production services for commercial vehicle manufacturers, dealers, and fleets. Currently, Fontaine has 10 modification centers strategically located adjacent to OEM manufacturing plants.

