



# PROPANE



Propane is clean burning and used in light- medium- and heavy-duty propane vehicles, such as in school bus, delivery, paratransit, municipal, and public utility fleets.

## HOW PROPANE VEHICLES WORK:

Propane is produced as a byproduct of natural gas processing and crude oil refining. In propane vehicles the fuel is stored in a tank as a liquid. Like gasoline vehicles, propane vehicles have spark-ignited engines and as pressure is released it turns into a gas that is used in a combustion engine. Propane is transported to refueling sites by delivery trucks and then stored in above-ground tanks. There are thousands of propane refueling stations in the U.S. Also, propane marketers might offer installation at a lower cost in exchange for a refueling contract.

## BENEFITS:

**Energy Security:** 97% of the propane used in the U.S. is produced domestically.

**Availability:** There is an established infrastructure including over 30 propane refueling stations across the state of Michigan, along with a variety of vehicle offerings for light-, medium-, and heavy-duty vehicle conversions. There are over 270,000 on-road vehicles in the U.S.

**Emissions:** If it is spilled, it is not a threat to water or soil. Propane vehicles produce far fewer emissions than gasoline or diesel, only emitting low levels of carbon dioxide and no sulfur dioxide, nitrogen oxides or methane.

**Lower Fuel Cost:** While there may be higher upfront costs, the cost is usually lower than gasoline. Propane refueling stations are one of the lowest costing refueling stations.

Sources:  
[U.S. Department of Energy Alternative Fuels Data Center](#)  
[The State of Sustainable Fleets 2021 Report](#)  
[ROUSH CleanTech](#)



## RENEWABLE PROPANE:

With the same chemical structure as traditional Propane, Renewable Propane is a new fuel solution that further reduces the environmental impact of vehicle use.

Renewable Propane is not widely available yet, but the supply chain is quickly being built. Renewable propane is produced using agricultural waste. Because it's made from a waste product, renewable propane reduces carbon and nitrous oxide emissions.

For more information, visit [cleanfuelsmi.org](http://cleanfuelsmi.org) or reach out to us at [info@cleanfuelsmi.org](mailto:info@cleanfuelsmi.org).