

Propane Autogas for School Buses

Why Propane, Why Now?



Propane = lowest total cost-of-ownership

Comparable cost at time of purchase

- Substantial grant monies available
- Lower cost of fuel per gallon
- Less maintenance
- Less repair costs
- Fueling station provide through supplier
- Tax rebate on every gallon of fuel

Lower Cost
of Ownership



2019 One Bus	Diesel	Propane	Cost Difference
	\$96,179	\$101,199	\$5,020
Indiana Grant	<u>0</u>	<u>-8,333</u>	
	\$96,179	92,866	\$3,313
Potential VW Grant Fund	unknown	<u>-25,300</u>	
One Bus	\$96,179	\$67,566	-\$28,613
4 buses 1st year			-\$114,452 Savings

Purchase Cost Estimates

28% Less than Diesel

Potential Purchase Savings during the VW Grant Period
4 Buses (1st year) = \$114,452

Potential 5 year savings over \$570,000 (20 buses)

Estimated Fuel Savings over Diesel

- ▶ Supplied infrastructure
 - ▶ \$.13 per mile savings per mile
 - ▶ \$3,387 Annual Savings (one bus)
 - ▶ \$13,548 1st year savings (4 buses)
 - ▶ \$203,220 5th year savings (20 buses)

Estimated Maintenance Savings

- ▶ Maintenance Savings Potential*
 - ▶ \$2,077 (one bus)
 - ▶ \$8,308 1st Year Savings (4 buses)
 - ▶ \$124,620 5th Year Savings (20 buses)

*These savings are conservative and based on the difference between a new diesel maintenance plan vs. propane. We will save more due to the replacement of old diesel engines.

Overall Potential Savings

	1 Bus	1 st year (4 Buses)	5 year (20 buses)
Purchase	\$28,613	\$114,452	\$572,260
Fuel	\$ 3,387	\$13,548	\$203,220
Maintenance	\$ 2,077	\$ 8,308	\$124,620
	\$34,077	\$136,308	\$900,100

Other benefits:

- ▶ Quieter - helps drivers hear students and reduces student noise
- ▶ Cleaner - good for kids and the environment
- ▶ Reliable - less parts to maintain = less down time
- ▶ Built for Cold Weather
 - ▶ No DEF (Diesel Exhaust Fluid)
 - ▶ No need to plug in
 - ▶ No need for auxiliary heaters
- ▶ We join the ranks of other schools who are proactively seeking cleaner less expensive bus operations:
 - ▶ Indianapolis Public Schools, DeKalb Community Schools, South Bend Community Schools, Penn-Harris Community Schools, Warren, Wayne Townships,