

WHY PROPANE SCHOOL BUSES?

✓ HEALTH

- Diesel is a carcinogen identified by the World Health Organization. Children are more sensitive to the harmful effects of diesel exhaust because they breathe faster.
- Propane is a nontoxic, non-carcinogenic and non-corrosive fuel. It poses no harm to groundwater, surface water or soil.
- Propane school buses virtually eliminate particulate matter, which is known to aggravate asthma and has been linked to increased risk of cardiovascular disease, pulmonary disease, kidney disease and diabetes.
- A Georgia State study shows diesel school bus fumes drive down test scores.



"THE BIGGEST THING WE HAVE NOTICED IS THAT THE CLEAN OPERATION OF THE PROPANE BUSES HAS REDUCED THE EMISSIONS IN OUR GARAGE AND AROUND OUR SCHOOLS. THERE IS FAR LESS CRUDE BUILD-UP ON OUR COMPUTER SCREENS INSIDE OUR MAINTENANCE BAYS, WHICH IS OBVIOUSLY A PLUS FOR OUR LUNGS."

– Barry Bryan, director of transportation, Bradford Area School District, Bradford, Pennsylvania



Propane is a nontoxic, non-carcinogenic and non-corrosive fuel.



The EPA classifies propane autogas as a non-contaminant.

WHY PROPANE SCHOOL BUSES?

✓ SAFETY & PERFORMANCE

- Propane engines are about 50% quieter than diesel models, increasing safety and decreasing driver fatigue.
- Propane fueling is a closed-loop system, removing the risk of spills.
- The American Federation of State, County and Municipal Employees (AFSCME) recommends replacing diesel-fueled engines with propane-fueled engines to increase workplace safety.
- Propane vehicles have no cold-start issues and warm up quickly, providing a comfortable ride for drivers and passengers.
- A typical propane school bus can drive more than two-and-a-half times farther on a full tank than a comparable electric school bus can drive on a full charge.



50% noise reduction.



Unaided cold-weather starts to negative 40°F.



Range of up to 400 miles on a single fueling.



"OUR COMMUNITY AND STUDENTS HAVE BENEFITED GREATLY FROM OUR PROPANE BUSES BECAUSE THEY HAVE NO COLD-START ISSUES, SO WE CAN BE CONFIDENT THAT KIDS CAN CONTINUE ATTENDING SCHOOL EVEN WHEN THE WEATHER TURNS TO NEGATIVE 40 DEGREES."

– Josh Schiffler, owner, Crosby-Ironton Transportation, Crosby, Minnesota

"DRIVERS WERE INITIALLY HESITANT, BUT THEY QUICKLY REALIZED THE BENEFITS. THE QUIETER OPERATION OF PROPANE BUSES REDUCES NOISE, MAKING IT EASIER FOR DRIVERS TO HEAR CHILDREN AND MANAGE ON-BOARD BEHAVIOR."

– Shawn M. Dawson, fleet and logistics manager, Westerville Schools, Westerville, Ohio

FOR MORE INFORMATION:

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WHY

PROPANE SCHOOL BUSES?



1.3 million+ students ride propane buses.



Trusted by 1,200+ U.S. school districts.



On average, propane costs 40-50% less than diesel.



Nontoxic, non-carcinogenic, non-corrosive fuel.



50% noise reduction over diesel.

WHY PROPANE SCHOOL BUSES?



✓ COST SAVINGS

- On average, propane costs 40-50% less than diesel.
- Districts report an annual per bus savings of \$3,700 due to lower fuel and maintenance costs.
- Lowest total cost of ownership for any fuel type.
- Oil changes are simpler and less expensive.
- No complex after-treatment devices needed.
- Fueling station installation is less expensive than diesel, gasoline, electric or CNG.
- Propane is eligible for most public and private incentive programs.



"WE ARE EXPERIENCING ABOUT 50% SAVINGS PER PROPANE BUS IN OUR PARTS AND LABOR COMPARED TO OUR DIESEL BUSES."

– John Benish, CEO, Cook-Illinois Corporation, Chicago



Today, 1.3 million U.S. students ride to school in buses powered by propane autogas. More than 1,200 school districts across 49 states and Washington, D.C., operate propane buses. About half of the country's largest 100 school districts rely on propane buses for their daily routes.

WHO RELIES ON PROPANE BUSES?



1.3 million+ students.



1,200+ school districts.



Nearly 1/2 of largest U.S. school districts.



"WE COULD ACHIEVE OUR DISTRICT'S TWO MAJOR OBJECTIVES WHEN IT CAME TO CLEANER SCHOOL BUSES: SAVING MONEY AND FORGING A GREENER FOOTPRINT."

– Jeff Schwepker, director of transportation, Fort Zumwalt Public Schools, St. Charles, Missouri



Up to 50% per gallon fuel savings.



Total ownership costs are lowest of any fuel type.



Lowest infrastructure cost of any fuel type.



Certified ultra-low NOx.

Fewer greenhouse gases, smog-producing hydrocarbons, nitrogen oxides and particulate emissions compared with conventional fuels.

✓ EMISSIONS

- Propane school buses reduce nitrogen oxides (NOx) by at least 95%.
- Buses that run on propane emit fewer greenhouse gases, smog-producing hydrocarbons, and particulate emissions compared with conventional fuels.
- Blue Bird propane buses are certified to the optional ultra-low nitrogen oxide (NOx) level of 20 mg/bhp-hr, meeting the EPA and California Air Resources Board's 2031 standard.



"OUR LUNGS ARE HAPPIER AROUND THE PROPANE BUSES."

– Ralph Perez, head mechanic, Washingtonville Central School District, Orange County, New York