

NATURAL GAS VEHICLES ARE THE
SOLUTION
TO LOWER SCHOOL BUS EMISSIONS



IT'S POSSIBLE **WITH NATURAL GAS VEHICLES**

Natural gas school buses can provide America's schools and children with a better tomorrow – including more funding for technology, textbooks and teachers through reduced dependence on foreign oil – and improved overall air quality.

THE HARD FACTS ABOUT SCHOOL BUSES

- Children breathe at a rate twice that of adults, and are thus more susceptible to the toxicity of airborne diesel particles, vapors and gases.¹
- Natural gas is already widely used in transit buses, providing 20% of the total fuel needs for these vehicles in 2009. If we can get 420,000 of these vehicles on the road by 2035 – a 25-fold increase from the 17,500 natural gas buses in 2007 – natural gas transit and school buses could eventually displace half of the oil used for all buses by 2035, saving 80,000 barrels per day.²
- Diesel exhaust contains over 40 substances that are listed by the U.S. EPA as hazardous air pollutants and by the California Air Resources Board (CARB) as toxic air contaminants – including benzene, 1,3-butadiene and arsenic.³
- The average diesel school bus is 223.5 times more toxic than a new compressed natural gas (CNG) school bus.⁴

1. Coalition for Clean Air 2. Center for American Progress 3. NGV America 4. Coalition for Clean Air

HOW NATURAL GAS MAKES A DIFFERENCE

- Natural gas buses emit 40% to 86% less particulate matter than diesel buses.⁵
- One natural gas-powered school bus can displace 1,400 gallons of diesel fuel per year.⁶
- More than 160 school districts have already chosen natural gas buses to replace their older diesel buses because they're quieter, cleaner and better-positioned to meet the EPA's and CARB's heavy-duty engine emissions requirements than the so-called "clean diesel" option.⁷

5. Gina M. Solomon et al., No Breathing In The Aisles: Diesel Exhaust Inside School Buses, Natural Resources Defense Council Coalition for Clean Air, January 2001, <http://www.nrdc.org/air/transportation/schoolbus/sbusinx.asp>
6. Source: U.S. Dept. of Energy 7. NGV America

"The number of school buses being replaced or retrofitted to natural gas ... is extraordinary and it's a giant step toward our goal of cleaning up all school bus fleets in the region. This will help thousands of school children and their communities breathe a little easier."

– WILLIAM A. BURKE, ED. D,
CHAIRMAN OF THE SOUTH COAST AIR
QUALITY MANAGEMENT DISTRICT



"It's an inherently cleaner fuel, domestically produced, in plentiful supply, and competitively priced. The engines are also noticeably quieter than diesels."

– MIKE ANDRE,
LOWER MERION SCHOOL DISTRICT (PA)
TRANSPORTATION SUPERVISOR

AMERICAN SCHOOL BUS COUNCIL: NATIONAL SCHOOL BUS FUEL DATA

Estimated number of school buses in the U.S.	480,000
Average miles traveled per year per bus	12,000
Total mileage for all buses	5,760,000,000
Average fuel use per school bus per year (gallons)	1,714
Total fuel used by all school buses per year (gallons)	822,857,143
Average annual fuel savings on a school bus fleet of 75 buses using CNG rather than diesel (with a \$0.90 savings per gallon)	\$115,695

TAKE ACTION: Please contact your local, state and federal representatives and ask them to support the use of natural gas vehicles.

We have the opportunity to create a stronger economy, a cleaner environment and a better energy future for America – but we must work together.

FOR MORE INFORMATION, VISIT:

CNGnow.com
NGVAmerica.org
ANGA.us
AGA.org
cleanskies.org



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