


The U.S. wants to replace diesel buses

What does \$1 billion buy?

When the complete life-cycle emissions of electric buses are evaluated, the significant economic and environmental benefits of propane buses are clear, making decarbonization more achievable and offering near-zero emissions without compromising the financial sustainability of school districts.

2,350
electric buses



 = 1,000 buses

will reduce nitrogen oxide (NOx) emissions by

665

metric tons per year

and CO₂ emissions by

36,870

metric tons per year

or

29,000
propane buses



 = 1,000 buses

will reduce nitrogen oxide (NOx) emissions by

7,846

metric tons per year

and CO₂ emissions by








155,472

metric tons per year

When it's time to replace diesel school buses

How do propane and electric buses compare?

When the complete life-cycle emissions of electric buses are evaluated, the significant economic and environmental benefits of propane buses are clear, making decarbonization more achievable and offering near-zero emissions without compromising the financial sustainability of school districts.

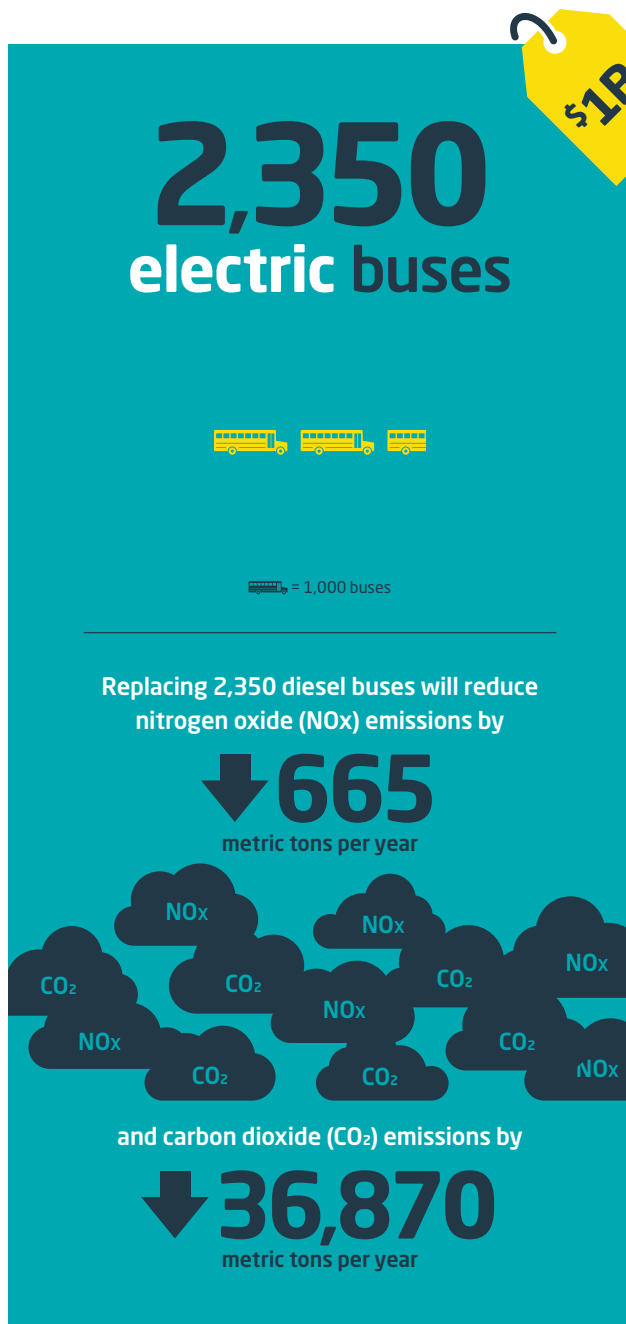
	 Electric	 Propane
 Environmental Impact Both buses nearly eliminate NOx emissions when replacing diesel buses. Propane engines are 90% cleaner than mandated EPA standards.	↓ 97%	↓ 97%
 Purchase Price New propane buses cost less than a third of the price of new electric buses, allowing districts to purchase more vehicles within budget.	\$375,000	\$126,000
 Range While electric powertrain performance can be limited by weather, geography, or even vehicle heating and air-conditioning, propane autogas reliably delivers hundreds of miles of performance under any conditions.	Up to 120 Miles per charge	Up to 400 Miles per tank
 Infrastructure Costs Propane autogas refueling stations require just a fraction of the cost of tying a new charging station into the electric grid – and are faster and more flexible to implement.	10 EV Buses \$480K	10 Propane Buses \$40K
 Fueling/Charging Time Propane buses promise less idle time between routes, keeping your fleet on the road and your drivers engaged.	4 Hours	6-8 Minutes

See why propane autogas is the most widely used alternative energy for school buses at betterourbuses.com

When do *more* buses mean cleaner air?

When diesel fleets are converted to propane buses instead of electric buses.

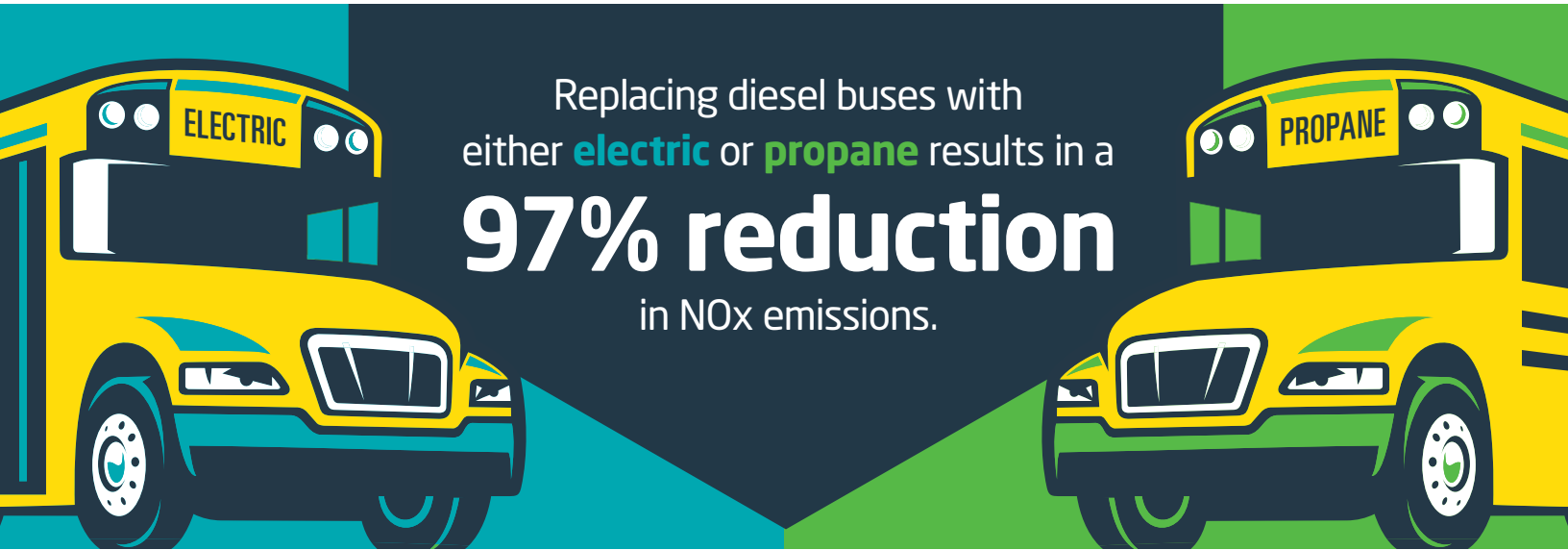
When the complete life-cycle emissions of electric buses are evaluated, the significant economic and environmental benefits of propane buses are clear, making decarbonization more achievable and offering near-zero emissions without compromising the financial sustainability of school districts.



Numbers based on EPA Clean School Bus Program first-round funding amounts of \$375,000 for EV and \$30,000 for propane.

Comparing **electric** and **propane** buses? There's really no comparison.

When the complete life-cycle emissions of electric buses are evaluated, the significant economic and environmental benefits of propane buses are clear, making decarbonization more achievable and offering near-zero emissions without compromising the financial sustainability of school districts.



But reduced emissions is where the similarities end.

electric buses	\$375,000	Purchase Price New propane buses cost a third of the price of new electric buses, letting districts put more emissions-reducing vehicles into operation.	\$126,000	propane buses
	10 EV Buses \$480K	Infrastructure Costs Not only are propane autogas stations more cost-efficient and flexible than charging stations, but the price of propane is more stable than that of electricity.	10 Propane Buses \$40K	
	Up to 120 Miles per charge	Range Electric battery range is affected by weather, geography, and even vehicle functions like windshield wipers and climate control.	Up to 400 Miles per 93-gallon tank	
	4 Hours	Fueling/Charging Time Propane promises less idle time between routes.	6-8 Minutes	

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Two districts are granted \$395,000 in clean school bus funding

When the complete life-cycle emissions of electric buses are evaluated, the significant economic and environmental benefits of propane buses are clear, making decarbonization more achievable and offering near-zero emissions without compromising the financial sustainability of school districts.

District A

District A purchased

1 electric school bus for \$375,000

to replace 1 diesel bus.



- They spent **\$20,000** on a charging station tied to the electric grid.
- Their vehicle spends **4 hours** charging every **120 miles** – more or less depending on weather and usage.
- That 1 electric bus will reduce NOx emissions in the community by **283 kg/year** and CO₂ emissions by **15.7 metric tons/year**.

District B

District B purchased

3 propane school buses for \$378,000

to replace 3 diesel buses.



- They spent **\$40,000** on a propane autogas fueling station.
- Each vehicle spends less than **8 minutes** refueling every **400 miles** – no matter the conditions.
- These 3 propane buses will reduce NOx emissions in the community by **812 kg/year** and CO₂ emissions by **16 metric tons/year**.

If more districts made the smarter choice like District B, the Clean School Bus Program could have funded **29,000 propane buses**, reducing national NOx emissions by **7,846 metric tons/year** and CO₂ emissions by **155,472 metric tons/year**.

The same funding could procure only **2,350 electric buses**, reducing nitrogen oxide by **665 metric tons/year** and CO₂ by **36,870 metric tons/year**.

