

# Electric Fleets Community Benefits



## Why Electric School Buses?

### Healthy Students

Emissions-free vehicles mean better air for students, drivers, and communities.

### Reliable Vehicles

Simple and reliable electric motors reduce maintenance costs.

### Stable Budgets

Charging with electricity insulates community budgets from volatile diesel prices.

## Facts & Figures

### 1 Community Health

Emissions-free vehicles eliminate toxic diesel fumes from school yards and neighborhoods.



Exposure to diesel fumes is linked to childhood asthma and other health problems.

### 2 Environmental Justice

Electric school buses improve air quality for traditionally poor and underserved communities.



Black and Latinx Californians breathe 40% more particulate matter than white Californians.

### 3 School Budgets

Restore balance to your transportation budget with predictable energy pricing.



Diesel price volatility wrecks havoc on student transportation budgets.

### 4 Driver Satisfaction

Recruit and retain drivers with quiet, easy-to-drive vehicles.



Students are better behaved when they don't have to shout over the engine.

### 5 Climate

Upgrading your fleet to electric reduces greenhouse gas emissions.



Electrifying a school bus saves as much CO<sub>2</sub> over its lifetime as four passenger vehicles.

### 6 Academic Success

When your students breathe cleaner air, they miss less school and perform better.

- Increase Test Scores
- Reduce Absenteeism

Reducing student's exposure to air pollution is more cost-effective at raising test scores than reducing class size.

### 7 Emergency Resilience

As Distributed Energy Resources (DERs)—batteries on wheels—electric school buses can power your community in an emergency.



Your town's electric fleet is an active member in your community—providing green energy storage, and emergency power when you need it most.

### 8 Grid Modernization

With vehicle-to-grid technology (V2G), electric school buses are helping build America's new energy grid, buffering peak demand and providing storage capacity for renewable energy.

① <https://projects.iq.harvard.edu/covid-pm>

② <https://uspig.org/reports/usp/electric-buses-clean-transportation-healthier-neighborhoods-and-cleaner-air>

③ [https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMD\\_EPD2DXL0\\_PTE\\_NUS\\_DPG&f=W](https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMD_EPD2DXL0_PTE_NUS_DPG&f=W)

④ [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=3351840](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3351840)