

nationalgrid

Take charge and go green.

A roadmap to fleet electrification in Rhode Island.



From deliveries to service calls, and everything in between, a vehicle fleet is often an important part of a company's infrastructure. However, maintaining and operating the fleet can also be a source of significant cost. That's why so many companies are upgrading to Electric Vehicles (EVs) as they lead toward a sustainable future.

EVs make our environment cleaner, and businesses healthier and safer.

When evaluating EVs for fleet replacement, one of the first benefits that is recognized is the lack of emissions. National Grid is dedicated to helping meet our states' decarbonization goals. With 40% of all greenhouse gas emissions in the Northeast coming from transportation, greening fleets through electrification and other technologies is a key piece of reducing those emissions.

But, the rewards extend beyond environmental stewardship – our customers often find compelling business advantages when EVs are compared with gasoline and diesel vehicles.

- **Reduced Operating Expenses:** Lower fuel costs, greater efficiency and less maintenance can help boost the bottom line.
- **Increased Cost Predictability:** Electric price stability helps to improve budget accuracy.
- **Lower Downtime:** Less moving parts coupled with longer service intervals help keep EVs on the road.
- **Greater Safety:** Larger, more robust crumple zones and lower risk of fire can reduce risk of injury in collisions. Winter traction is often better than most front-wheel drive vehicles due to evenly-distributed battery weight.

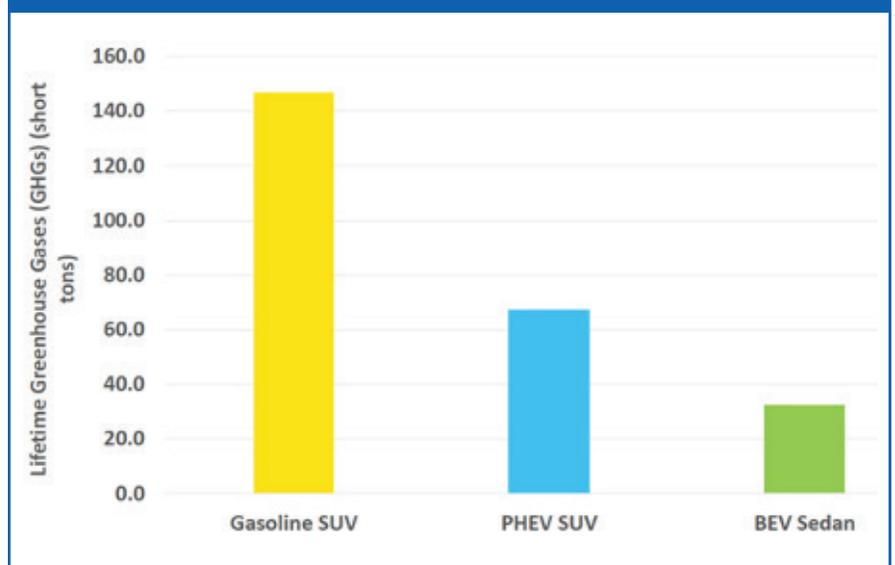
CUSTOMER RESULTS*:

Each EV sedan replacing a gasoline SUV

CO ₂ Saved:	Equivalent Barrels of Oil Saved:	Lifetime Savings:
93,000 lbs.	100	\$14,250

*Typically 10 years

EMISSIONS REDUCTIONS - CO₂



Accelerate toward a greener future.

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Transitioning your fleet to electric can drive down your expenses.

Customers that participated in a fleet advisory study gained insights into the investment required and potential returns. This included both the existing vehicle fleet and facilities, such as:

- Fleet composition, age, annual mileage
- Fuel consumption
- Maintenance costs
- Operational needs
- Vehicle replacement timeframe
- Parking locations
- Existing charging infrastructure

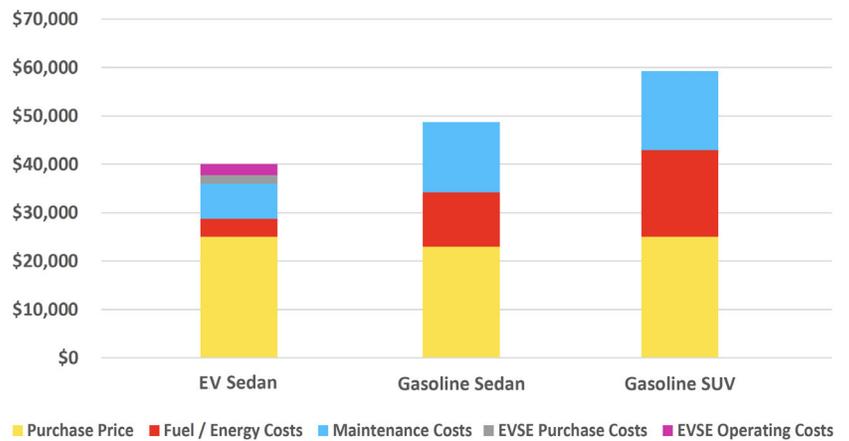
In a recent fleet electrification study, National Grid helped a business compare all of the costs and savings to electrify their fleet. This resulted in the identification of 63 EV sedans to replace the customer's gasoline SUVs. The study also suggested the customer add up to 63 charging station ports over the next three years to support this transition.



Incentives make EV infrastructure even more rewarding.

Customers can partner with National Grid to install Level 2 chargers. For approved projects, our Electric Vehicle Charging Station Program **funds up to 100%** of the electrical infrastructure and charging station equipment costs.

TOTAL COST OF OWNERSHIP



EXAMPLE: per-vehicle Battery Electric Vehicle (BEV) capital and operating budget

	BEV Sedan replacing Gasoline Sedan	BEV SUV replacing Gasoline SUV	BEV Sedan replacing Gasoline SUV
ONE TIME UPFRONT CAPITAL COSTS			
Purchase Premium	\$7,000	\$12,500	\$5,000
EVSE Capital Cost	\$1,750	\$1,750	\$1,750
Total Upfront Cost	\$8,750	\$14,250	\$6,750
ANNUAL OPERATING COSTS			
Electricity Cost	\$300	\$350	\$300
Avoided Maintenance	\$600	\$700	\$700
Avoided Fuel Cost	\$950	\$1,500	\$1,500
EVSE Operating Costs	\$150	\$150	\$150
Total Annual Operating Cost Savings	\$1,100	\$1,700	\$1,750
Lifetime Operating Cost Savings	\$13,200	\$20,400	\$21,000
Net Lifetime Savings	\$4,450	\$6,150	\$14,250

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