

**U.S. Department of Energy - Energy Efficiency and Renewable Energy
Alternative Fuels Data Center**

Electricity Benefits

Vehicles that run on electricity have no tailpipe emissions. This is the primary benefit of owning an electric vehicle (EV). Emissions that can be attributed to EVs are generated in the electricity production process at the power plant.

EVs have lower "fuel" and maintenance costs than gasoline-powered vehicles. The cost of an equivalent amount of fuel for EVs costs less than the price of gasoline. Also, maintenance for EVs is less—EVs have fewer moving parts to service and replace, although the batteries must be replaced every three to six years.

Furthermore, some federal and state dollars help provide incentives for fleets and private individuals to purchase AFVs. To find out more about incentives, go to the [Incentives and Laws](#) page.

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