

Should Your Next Car Be Electric?

Electric vehicles are powered by the grid or distributed renewables, and this includes hydrogen-powered vehicles employing fuel cells to generate electricity. They are about 60% efficient compared to gasoline powered vehicles, which are less than 15% efficient. The “fuel” for electric cars is cheaper too. For example, the Nissan LEAF, an all-electric vehicle, will travel 3.3 miles on 1 kilowatt-hour of electricity. If the car is charged in the middle of the night at 7 cents per kilowatt-hour, that is comparable to 72 cents per gallon. If the Nissan LEAF gets 23 miles per equivalent gallon, compared to 34 miles per gallon for the Nissan Versa with gasoline at \$2.30 per gallon, it achieves a 69% cost savings.

Carbon dioxide emissions per gallon of gasoline is around 25 pounds, whereas the emissions for 10 kilowatt-hours of electricity is approximately 12.2 pounds—a 50% reduction in carbon dioxide emissions.

If you power your electric vehicle with solar energy, your emissions are zero.

See more at ElectricForAll.org and cleanvehiclerebate.org

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