



Research Report

Topic “How does a hybrid car save energy?”

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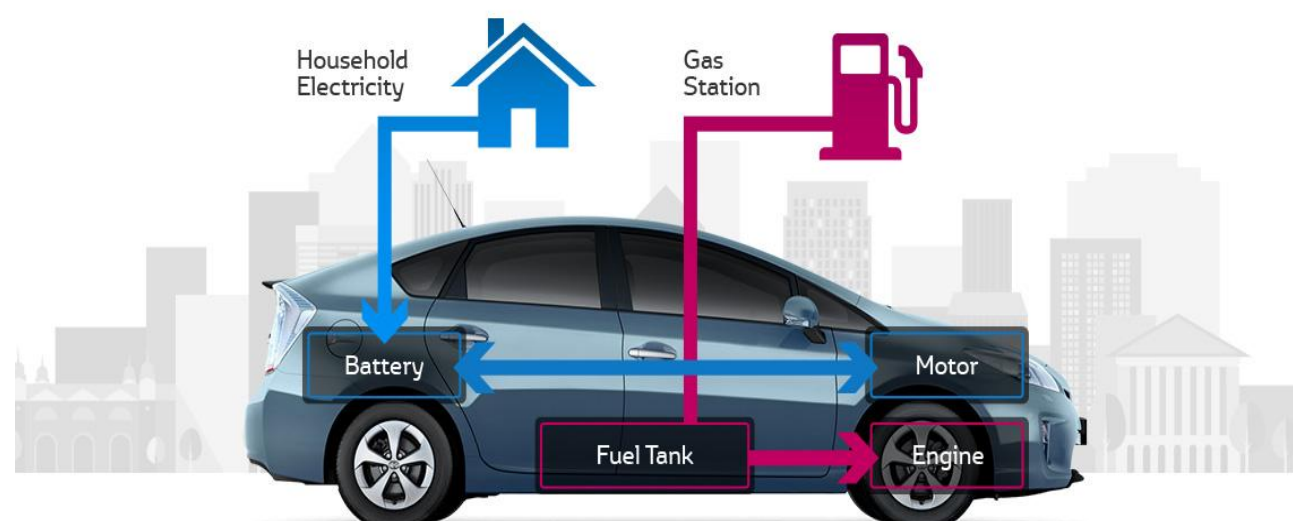
Editor: T. Vivian



Global warming is coming. We need to save energy, because burning coal, crude oil and other fossil fuels generates more CO₂. We all know it's the biggest cause of global warming, but will hybrid cars save the Earth?



The difference between a traditional car and a hybrid car is that a hybrid car's motor works better at different speeds. For example, an electric motor is more efficient at producing torque, or power. However, a fuel engine is better at maintaining high speeds. A hybrid vehicle can switch between the two engines at the proper time, so it has better fuel efficiency.





Right now, there are many types of hybrid vehicles on the road. From time to time, we can even find a hybrid bus on the street. A hybrid bus can switch between a diesel engine and electrical power depending on conditions. Most hybrid vehicles use gasoline and electricity, and are called hybrid-electric vehicles (HEV). There are also flexible-fuel vehicles and bi-fuel vehicles. These vehicles can use gasoline and ethanol, methanol, or gas, but they aren't as green as HEV.



HEVs usually come with a technology called regenerative braking. This is a great feature that saves energy. Traditional vehicles completely depend on friction brakes to slow down, and in the process dispel a car's moving energy in the form of heat. Regenerative braking can harness some of that energy, which is converted into electricity and stored in the batteries for later use, such as running the motor or accelerating the car.

In general, hybrid cars can help save energy and have a great power output. Before electric vehicles become popular, maybe hybrid vehicles are our best choice. Because we have only one Earth, we should do our best to save energy, shouldn't we?

