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2020 Ioniq Plug-in Hybrid. Up to 29-mile All-Electric Range based on a fully charged battery pack with 8.9-kWh capacity and 119 MPGe. MPGe is the EPA-

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equivalent measure of gasoline fuel efficiency for electric-mode operation. 52 Combined MPG (gas). All figures are EPA estimates and for comparison purposes only.

### **Hyundai Alternative Fuel Vehicles | Hybrid and Fuel Cell**

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The fuel cell process of converting

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hydrogen back to electricity is only 60% efficient, after which you have the same 5% loss from driving the vehicle motor as for a BEV. The grand total is a 62% ...

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"This book clearly explains the mechanical and electrical principles of the modern hybrid electric powertrains.

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### **US Hybrid Corporation**

The Fuel Cell Demonstrator Airplane, as it was called, used a Proton Exchange Membrane (PEM) fuel cell/lithium-ion battery hybrid system to power an electric motor, which was coupled to a conventional propeller.

### **Fuel cell vehicle - Wikipedia**

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Like all-electric vehicles, fuel cell electric vehicles (FCEVs) use electricity to power an electric motor. In contrast to other electric vehicles, FCEVs produce electricity using a fuel cell powered by hydrogen, rather than drawing electricity from only a battery.

## **Alternative Fuels Data Center: How Do Fuel Cell Electric ...**

For context, Toyota sold more than 10 million vehicles globally last year, including around 2 million electrified vehicles. Toyota in 2017 had announced a plan to sell 5.5 million electrified...

## **Toyota expects to sell 5.5 million electric cars and ...**

A fuel cell hybrid electric vehicle (FCHEV) is more advantageous compared to a gasoline-powered internal combustion engine based vehicle or a traditional hybrid electric vehicle (HEV) because a FCHEV only uses one electric motor instead of an internal combustion engine or an electric motor in

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combination with an internal combustion engine.

### **Fuel cell hybrid electric vehicle (FCHEV): Novel fuel cell ...**

Nikola Motors, better known for its electric fuel-cell semi-trucks, is today unveiling a concept for a new electric pickup with a battery/fuel-cell hybrid powertrain enabling 600 miles of range,...

### **Nikola Motors unveils new electric pickup with battery ...**

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Fuel-cell power will tend to be the preferred option for heavier loads and longer distances.” The development engineers at Daimler Trucks have based the GenH2 Truck on the capabilities of the conventional Mercedes-Benz Actros long-haul truck with regard to tractive power, range, and performance.

## **Mercedes-Benz fuel-cell concept truck revealed - Electric ...**

But a fuel cell is much different than a battery. The hulking lithium-ion battery in the belly of a Tesla Model S stores electrical energy as a voltage across an



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anode and cathode.

## **Hydrogen Cars — How Hydrogen Fuel Cell Cars Work**

The Power Control Unit The PCU decides when to use stored energy from the battery or to draw energy directly from the fuel cell stack. This is part of what makes Mirai so energy efficient, and is based on the Toyota hybrid PCU found in the Prius.

## **2020 Toyota Mirai Hydrogen Fuel Cell Electric Vehicle ...**

In the Mirai, the fuel cell, a polymer electrolyte unit with 370 cells and an output of 114kW, is twinned with an NiMh battery and a single electric motor/generator rated at 113kW. Two high-pressure hydrogen storage tanks hold 5kg of hydrogen in total, with a gravimetric density of 5.7 wt% at 700 bar, and an internal volume of 122.4 l.

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