



HySERIES EDGE

Plug-in Hydrogen Hybrid



Toward a Sustainable Future

HY SERIES DRIVE

Plug-In Hybrid Powertrain



Front/Rear
Dual e-Drives

130 kW Lithium Battery

Hydrogen Storage
5000 psi

35kW Fuel Cell APU
Auxiliary Power Unit

Overall Vehicle

- Fuel Cell: 35kW Fuel Cell
- Motor: 130 kW Dual Electric Drives
- Hybrid Battery: 130kW Li-ion
- Hydrogen Storage: 350 bar, 4.5kg H₂
- Weight: 2450kg
- Seating: 5 Passenger
- Range: 225 mi

Features

- Overnight Home Recharging
(100 / 120 VAC)
- 25 Mile Range on Li-ion Battery
- Zero Emission Hydrogen Fuel Cell APU
- 225 Mile Combined
Range with Battery / Fuel Cell
- Uncompromised Interior Package
- Electric AWD





How It Works

The Ford Edge with HySERIES Drive is a battery powered plug-in hybrid with a fuel cell that operates as an on-board charger. The vehicle operates in "battery only" mode for the first 25 miles at speeds up to 85 miles per hour. When the battery is depleted to approximately 40%, the fuel cell auxiliary power unit (APU) automatically starts up and recharges the battery, giving the vehicle an additional 200 miles of range. The range can be increased to more than 300 miles with a higher pressure tank. The fuel cell's sole function is to recharge the vehicle's lithium ion battery pack as needed, allowing this break-through technology to work like a portable generator, instead of an engine, as had been the case in previous fuel cell powered vehicles.

"We are looking at all aspects of a sustainability strategy for both the short and long term, including an understanding of the technologies that will be needed to increase fuel efficiency and reduce green house gas emissions of our products and processes."



-Sue Cischke

Senior Vice President, Sustainability, Environment and Safety Engineering

Ford is moving ahead with a range of technology solutions simultaneously, including vehicles such as the HySERIES EDGE, the first drivable Fuel Cell Hybrid with plug-in capability. In addition Ford has the Escape Hybrid, Mercury Mariner Hybrid, Focus Fuel Cell Vehicle, as well as vehicles that are powered by hydrogen internal combustion engines, ethanol, clean diesel and refinements to gasoline fueled engines and advanced transmissions. No single global technology solution has proven itself the definitive alternative, but each of these innovative technologies has great promise.

Ford is proud of the progress it has made in developing more environmentally friendly vehicles. Ford Motor Company is committed to building a better world through automotive technology and innovation.





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