

Initiative with Commercial Trucks

Objective

We are aiming for the early realization of a carbon-neutral movement offering clean mobility and reliable power supply and safe movement movement for commercial trucks with a long cruising range by utilizing the advantages of hydrogen energy.

Technology Details: Initiative Example

Start of the joint development for FC Heavy Truck with Isuzu



GIGA FUEL CELL performing a final check run on a public road before the start of monitoring (Photo taken on November 15, 2023)

Technical Features

- -High reliability cultivated through fuel cell vehicle development
- -Highly efficient power unit suitable for long-distance driving

GIGA FUEL CELL Vehicle Overview		
Vehicle	Base model	CYJ77C-WX Low floor4shaft × 4
	L/W/H	11,980mm / 2,490mm / 3,770mm
	Total Vehicle Weight	25t
Fuel Cell Stack	Type	PEFC (Honda FC stack)
	Power	103kW × 4
High pressure H2 system	Charging pressure	70MPa
	On-board H2	56kg
Motor	Type	Synchronous motor
	Power	Rate 320kW
HV battery	Type	Lithium-ion battery
Driving range		800km min. (Isuzu evaluation mode)
Others	Output supply port	2 ports (CHAdeMO connector) Max supply 530kWh

Since the signing of an agreement in January 2020 to conduct joint research on FC-powered heavy-duty trucks, the two companies have been working on the verification of the compatibility of the FC system and heavy-duty trucks and the establishment of a foundation for basic technologies such as vehicle control technologies. The two companies are planning to introduce the production model to market in 2027 by fully leveraging the technology, experience and knowledge gained through the joint research.

Isuzu Selects Honda as Partner to Develop and Supply Fuel Cell System for its Fuel Cell-Powered Heavy-duty Truck to be launched in 2027