

ISUZU

HONDA

October 17, 2023

Isuzu Motors Limited
Honda Motor Co., Ltd.

Isuzu and Honda to Hold First Public Exhibit of Fuel Cell-Powered Heavy-duty Truck at JAPAN MOBILITY SHOW 2023

– Zero-emission, heavy-duty truck realizes range of more than 800 km/500 miles –

TOKYO, Japan, October 17, 2023 – Isuzu Motors Limited and Honda Motor Co., Ltd. today announced that they will exhibit the **GIGA FUEL CELL**, a fuel cell (FC)-powered heavy-duty truck currently being co-developed by the two companies, at the Isuzu Group booth at the JAPAN MOBILITY SHOW 2023. This will be the first time the GIGA FUEL CELL will be shown to the general public. The Japan Mobility Show will be held from Saturday, October 28 to Sunday, November 5, 2023 at Tokyo Big Sight, Tokyo Japan.



GIGA FUEL CELL being co-developed by Isuzu and Honda

Isuzu and Honda believe that FC technology, utilizing hydrogen as fuel resulting in no CO₂ emissions, will be effective to achieve carbon neutrality of heavy-duty trucks which are required to achieve high-efficiency transportation (with the capability for long-distance driving, large load capacity, quick refueling).

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 currently planning to start demonstration testing of a prototype model on public roads before the end of the current fiscal year (ending March 31, 2024) and introduce the production model to the market in 2027 by fully leveraging the technology, experience and knowledge gained through the joint research.

The GIGA FUEL CELL model on display at the Japan Mobility Show adopts the Lowdeck 8x4 rigid truck configuration, which is a typical configuration for trucks used for intercity transportation. Its range

of more than 800 km/500 miles (Isuzu validation mode) makes the GIGA FUEL CELL a zero-emission heavy-duty truck with true practicality. Moreover, the GIGA FUEL CELL is equipped with an external power output function, so that it can leverage its large energy capacity unique only to FC vehicles, that use hydrogen as a fuel, and serve as “mobile power station” as needed, such as in times of a disaster.

Working toward the planned market launch of a FC-powered heavy-duty truck in 2027, the two companies will continue making progress in the development of product that fulfills the performance and conditions required for a heavy-duty truck and satisfies customers.

■ About the GIGA FUEL CELL

Vehicle	Base vehicle	CYJ77C-WX Lowdeck 8x4 rigid truck
	Total length/width/height	11,980mm / 2,490mm / 3,770mm
	Total vehicle weight	25t
FC Stack	Type	Solid polymer (Honda FC Stack)
	Output	103kW×4
High-pressure hydrogen system	Filling pressure	70MPa
	Hydrogen capacity	56kg
Motor	Type	AC synchronous electric motor
	Rated output	320kW
High-voltage battery	Type	Lithium-ion battery
Range		More than 800km/500 miles (Isuzu validation mode)
Other features	External Power Output Port	2 ports (CHAdeMO connector) Maximum power supply: 530kWh

About Isuzu Motors Limited

Head office address: 1-2-5 Takashima, Nishi-ku, Yokohama-shi, Kanagawa, 220-8720, Japan
 Business: Production and sales of commercial vehicles, pick-up trucks, diesel/natural gas engines, parts and components.

About Honda Motor Co., Ltd.

Head office address: 2-1-1 Minamiaoyama, Minato-ku, Tokyo 107-8556, Japan
 Business: Production and sales of mobility products (motorcycles, automobiles, power products, etc.)

About the JAPAN MOBILITY SHOW 2023

Name: JAPAN MOBILITY SHOW 2023
 Organizer: Japan Automobile Manufacturers Association, Inc.
 Dates: Saturday, October 28 – Sunday, November 5, 2023
 (Press Days: October 25 and 26, 2023)
 Main Venue: Tokyo Big Sight
 URL: <https://www.japan-mobility-show.com/en/outline/>

Note: The GIGA FUEL CELL will be on display at the Isuzu Group Booth (Joint booth of Isuzu and UD Trucks Corporation) located at East Hall 1 EC01