

News Release

Hyundai Motor and H2 Energy Will Bring the World's First Fleet of Fuel Cell Electric Truck into Commercial Operation

- Hyundai Motor, in cooperation with H2 Energy, to provide 1,000 fuel cell electric trucks to Swiss commercial vehicle market, beginning 2019 through to 2023
- Hyundai further expands its global leadership in the field of fuel cell technology with plans to commercialize fuel cell electric trucks for the first time in the world
- New fuel cell electric truck expected to travel a range of approximately 400km in real-life driving conditions
- The truck boasts a distinctive design befitting of an eco-friendly vehicle

Hanover, Sept. 19, 2018 — Hyundai Motor Company today affirmed at the 'IAA Commercial Vehicles 2018' in Hanover that it has entered into a Memorandum of Understanding (MOU) with Swiss hydrogen company H2 Energy (H2E). Beginning in 2019 and over a five year period Hyundai Motor and H2 Energy will provide 1,000 heavy-duty fuel cell electric trucks and an adequate supply chain for renewable hydrogen.

With the introduction of the world's first mass-produced fuel cell electric vehicle, the Tucson Fuel Cell in 2013, and the release of the world's leading FCEV, NEXO in 2018, the supply of a fleet of fuel cell electric trucks to H2 Energy marks Hyundai Motor's first expansion of its FCEV leadership into the eco-friendly commercial vehicle sector.

The MOU signing ceremony took place in the IAA Commercial Vehicles 2018 exhibition's convention center and was attended by key individuals from each company, including Hyundai Motor's Executive Vice President and Head of Commercial Vehicle Division, In Cheol Lee, as well as Chairman of H2E, Rolf Huber.

"We are yet again advancing the field of fuel cell technology in the automotive industry with today's announcement of our ambition to commercialize the fuel cell electric truck for the first time in the

world” said Executive Vice President In Cheol Lee. “We will continue to seek opportunities for expanding into other markets by carefully monitoring multiple factors such as fueling infrastructure and governmental policies.”

The fuel cell electric truck is being developed according to European regulations. It features a new 190kW hydrogen fuel cell system with two fuel cell systems connected in parallel, also a feature of NEXO. It is expected to deliver a single-fueling travel range of approximately 400km, and in order to secure sufficient range, eight large hydrogen tanks are being compactly installed, utilizing areas such as between the cabin and the rigid body.

The fuel cell electric truck boasts a distinctive design. It is presented in a simple and clean design which is also aerodynamically efficient, and features a spoiler and side protector.

The front grille symbolizes hydrogen through geometric shapes, giving the vehicle a unique and powerful look. The vehicle emanates an eco-friendly look with a blue color application and a bold side body graphic on the container, which also visualizes its dynamic character.

H2 Energy is a company specialized in the production and supply of renewable hydrogen in Switzerland, with business subsidiaries in Germany, Norway and Austria. The company is experienced in the roll out of an optimized hydrogen ecosystem, which focuses on commercial viability for all stakeholders.

H2 Energy plans to make Hyundai’s fuel cell electric trucks available to its Swiss customers starting with the dedicated members of the Swiss H2 Association, which includes several refueling-station operators, retailers and other customers focusing on eco-friendly innovative solutions for logistics and goods distribution.

“A sustainable hydrogen economy needs a designated ecosystem for hydrogen. This is why our collaboration between Hyundai Motor, H2 Energy, the Swiss H2 Association, and Key electricity producers in Switzerland is strategic and makes a lot of sense” said Rolf Huber, Chairman of H2 Energy.

Fuel cell electric powertrain technology has advantages over battery electric powertrain technology in its applications to larger vehicles such as trucks and buses. Fuel cell technology saves space and reduces weight as well as being more cost efficient to apply as the vehicle size increases. Therefore, the technology is deemed to have a wide array of opportunities to be utilized in the commercial vehicle field.

The global demand for eco-friendly commercial vehicles is expected to increase as eco-friendly government policies are enforced around the world.

To cater to growing opportunities in the sector, Hyundai plans to diversify its fuel cell electric commercial vehicle line-up. Currently under development is the medium sized fuel cell electric truck (Payload: 4~5ton) which can be used in the public services domain such as vehicles used for cleaning.

Hyundai Motor also introduced fuel cell electric express buses during the PyeongChang Olympics in South Korea last February and is currently conducting a pilot operation with fuel cell electric buses in South Korea's major cities, whilst reviewing plans for mass production by 2020. Domestically, FCEV taxis and car-sharing services are operating on public roads in Ulsan and Gwangju.

Hyundai Motor began the world's first fuel cell electric vehicle lease in the United States, also supporting its wider transport industry, including FCEV taxis, and car-sharing services to further support the spread of eco-friendly technology usage.

Fuel cell electric truck specification (4x2 cargo truck) *

Specification	Truck
Gross Vehicle Weight	18 ton (GCW 34 ton with trailer)
Length	9,745 mm
Width	2,550 mm
Height	3,730 mm
Wheelbase	5,130 mm
Driving Range	Approximately 400 km
Hydrogen Refueling Time	7 min
Tank Capacity / Pressure	32.86 kgH ₂ / 350 bar
Fuel Cell Stack Power	190 kW (2 x 95 kW)
Traction Motor	350 kW / 3,400 Nm (471PS / 346 kgf·m)
Safety Features	FCA, LDW **

* Vehicle under development and production model specification may vary. ** FCA: Front Collision Avoidance Assist, LDW: Lane Departure Warning.

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About Hyundai Motor Company

Established in 1967, Hyundai Motor Company is committed to becoming a lifetime partner in automobiles and beyond with its range of world-class vehicles and mobility services offered available in more than 200 countries. Employing more than 110,000 employees worldwide, Hyundai sold more than 4.5 million vehicles globally. Hyundai Motor continues to enhance its product line-up with vehicles that are helping to build solutions for a more sustainable future, such as NEXO – the world's first dedicated hydrogen-powered SUV.

More information about Hyundai Motor Company and its products can be found at:

<http://worldwide.hyundai.com> or <http://globalpr.hyundai.com>

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