

News Release

Green Hydrogen Allows Hyundai Hydrogen Mobility and Hydros spider to Connect Electricity with Mobility Sectors in Switzerland

- The first 2MW electrolysis plant in Switzerland will start operations producing green hydrogen at the end of 2019 at the Gösgen hydropower plant.
- Partnership is forged among Hyundai Hydrogen Mobility (HHM) and Hydros spider together with logistics and retail and trade partners to build an industrial hydrogen ecosystem in Europe.
- Hyundai's fuel cell technology via HHM will promote clean transportation of the future.
- Delivery of Hyundai Motor's first 50 fuel cell trucks to Switzerland in 2020.
- With combined effort among partners, HHM and Hydros spider solve the chicken-egg dilemma with a business case for future mobility and energy solutions.

Niedergösgen, 25 September, 2019 – Hyundai Hydrogen Mobility (HHM), the joint venture between Hyundai Motor Company and H2 Energy, forged a partnership with Hydros spider, a joint venture of H2Energy, Alpiq and Linde to promote green hydrogen ecosystem in Switzerland and European countries in the upcoming future.

As part of this effort, HHM and Hydros spider held a special ceremony at Alpiq's hydroelectric power plant in Gösgen, Switzerland, to introduce a new business model for green mobility with fuel cell electric trucks in alignment with Hydros spider's green hydrogen production and a distinctive plan for building up the necessary refuelling infrastructure. At the event, meanwhile, Hyundai also provided detailed information about its next-generation Hyundai H2 Xcient fuel cell electric truck and unveiled a video showing Xcient running on the road.

With global leading hydrogen technology, Hyundai as a truck supplier intends to enter into the European market for eco-friendly heavy-duty vehicles. Indeed, earlier this year, Hyundai and H2 Energy announced the establishment of a joint venture, Hyundai Hydrogen Mobility, aiming at taking the lead across Europe's burgeoning hydrogen mobility ecosystem.

As part of this partnership, HHM plans to bring 1,600 fuel cell electric heavy-duty until 2025, marking the entry of the automaker into Europe's clean mobility commercial vehicle sector. The

venture will then offer these fuel cell powered electric trucks in a specially designed green ecosystem to the members of the H2 Mobility Switzerland Association as well as to other transport and logistics companies promoting hydrogen mobility in Switzerland.

HHM will position itself in Europe's fuel cell electric commercial vehicle market as well, where green mobility with strict regulations about carbon emissions are hugely embraced. It will expand its presence further to European countries beyond Switzerland. Currently, there is a strong focus in establishing solutions and partner networks for Germany, the Netherlands, Austria and Norway.

For the production of hydrogen and its delivery to the hydrogen refueling stations, Hydros spider was founded at the beginning of 2019, in which H2E, Linde and Alpiq, the host of the event at the Gösigen hydropower plant, participated. The production of hydrogen at Alpiq's hydroelectric power plant Gösigen will be commissioned from at the end of 2019. The power plant itself has been in operation for over 100 years, having been built in 1917 and rebuilt between 1997 and 2000.

HHM, Hydros spider, and dedicated members of the H2 Mobility Switzerland Association are jointly creating the infrastructure for fuel cell truck mobility solutions through a strong business case. These players are dedicated to solve the chicken-egg dilemma and demonstrate both the economic and ecologic viability of commercial fuel cell truck mobility.

Hyundai's world-leading position in hydrogen technology and the enormous demand for fuel cell trucks powered by green hydrogen allows Hyundai to gain a strategic foothold in Switzerland through HHM. Meanwhile, the global demand for eco-friendly commercial vehicles is expected to increase as environmentally-friendly government policies are enforced around the world.

The next-generation Hyundai H2 XCIENT Fuel Cell truck

The supply of a fleet of fuel cell electric trucks to Switzerland marks Hyundai's first expansion of its FCEV leadership into the eco-friendly commercial vehicle sector.

The Hyundai H2 XCIENT Fuel Cell truck has been developed according to European regulations. It features a new 190 kW hydrogen fuel cell system with two 95 kW fuel cell stacks connected in parallel. It delivers a single-fueling travel range of more approx. 400 km. It carries seven large hydrogen tanks with the storage capacity of almost 35kg of hydrogen.

Hyundai's fuel cell electric trucks will be available to its Swiss customers, starting with dedicated members of the H2 Mobility Switzerland Association.

"Through this partnership between Hyundai Hydrogen Mobility and Hydros spider, Hyundai Motor will offer its fuel cell electric trucks in a specially-designed ecosystem," says In Cheol Lee, Executive Vice President and Head of Commercial Vehicle Division, Hyundai Motor. "We believe that our strong business case demonstrates both the economic and ecologic viability of fuel cell truck mobility. Once again, Hyundai Motor demonstrates its commitment to both innovation and the environment."

"Hyundai is a world leader in hydrogen technology, and this has been further emphasized through the company's new Xcient fuel cell electric truck," says Rolf Huber, Chairman of Hydros spider AG. "Hydros spider is very proud to be a part of this pioneering venture. As well as producing green hydrogen, we are creating an ecosystem with the necessary infrastructure that will enable these vehicles to operate successfully in the Swiss market."

About H2 Energy

H2 Energy has industry-wide capabilities throughout Switzerland's hydrogen ecosystem, encompassing hydrogen production and supply, refueling stations, fuel cell vehicle procurement and other fields. The company also offers business and engineering solutions in several European countries, drawing on its technical expertise, extensive infrastructure, solid market presence and close industry-wide connections.

About Alpiq

Alpiq is a leading Swiss energy services provider and electricity producer in Europe. The Alpiq Group has been generating climate-friendly and sustainable electricity from carbon-free Swiss hydropower for more than 100 years. Its power plant portfolio also comprises shares in two Swiss nuclear power plants as well as flexible thermal power plants, wind farms and photovoltaic systems in Europe.

About The Linde Group

The Linde Group is a global market leader for industrial, process and specialty gases, as well as being one of the most profitable engineering companies. Active in more than 100 countries worldwide, it is an elementary component of virtually every industry.

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About Hyundai Motor Europe HQ

Hyundai Motor Europe HQ was formally established in 2000 with its main office in Offenbach, Germany. Hyundai currently sells cars in 41 European countries through 3,000 outlets and in 2018 achieved registrations of 543,292 vehicles in the region – an increase of 3.9 percent compared to 2017, a higher rate than the market average. 2018 was the fourth consecutive year with a record sales result. 75 percent of the vehicles Hyundai sold in the region are models designed, engineered, tested and built in Europe to meet the needs of European customers, served by the company's extensive European infrastructure. This includes two factories in the Czech Republic and Turkey, which have a combined annual capacity of 600,000 units. Hyundai is proud to offer the youngest product line-up in Europe: 90 per cent of the models are less than two years old. Hyundai offers its unique Five Year Unlimited Mileage Warranty package with all new cars sold in the region, providing customers with a five-year warranty with no mileage limit, five years of roadside assistance and five years of vehicle health checks.

More information about Hyundai Motor Europe HQ and its products is available at www.hyundai.news.

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About Hyundai Motor

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 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.

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