



PRESS KIT GOH! PROJECT

GENEVA, MAY 31. 2022

THE HYDROGEN TRUCK THAT ONLY RELEASES WATER!

WEIGHT OF THE VEHICLE :

- Gross weight: 40t
- Useful weight: 23t

CYLINDERS, FILLING, AUTONOMY:

- Cylinder quantity and capacity: 6@350 bars
- Weight H2 at full load: 45kg
- Filling pressure: 350 bars
- Filling time: 15mn maximum

Cruising range identical to a internal combustion engine

L x w x h: 11,23m x 2,55m x 3,75m



No pollution: discharges only water

Energy recovery system under braking

Complete filling time in only 15mn

ENERGY PRODUCTION:

- Power of the fuel cell: 170kW

CHASSIS :

- Type of chassis: 6x2-2

BATTERY :

- Battery capacity: 60kWh

MOTOR :

- Electric motor power: 420kW

PERFORMANCES :

- Cruising range: 450 to 480km
- Refrigerator capacity: 25kw



Press release

GoH! – The first 100% Swiss hydrogen truck

On Tuesday, May 31, 2022, the official launch of a 40-tonne hydrogen-powered truck, entirely designed by Swiss companies, took place. The event is part of the 23rd edition of the European Conference on Energy Transition, at Geneva Palexpo, where the heavyweight is on display until June 2.

It is the fruit of a close collaboration bringing together four companies and one foundation within the ambitious GoH! Generation of Hydrogen program.

Migros Genève, by transporting its products with the truck *GoH!*, which only releases water, Migros is fulfilling its promise to reduce its carbon footprint and consolidating its progress towards sustainable logistics. GreenGT, a pioneer in the research and development of high-power electric-hydrogen propulsion solutions for mobility, has created the powertrain and the architecture of the vehicle. Les Services Industriels de Genève (SIG), supplying energy to the whole Genevan territory (especially water, gas, and thermic energy) have developed a project of green hydrogen production to fuel the truck in energy from renewable and local energy. LARAG is involved in projects for the use of vehicles with alternative propulsion systems to contribute to the development of sustainable mobility. As part of the project *GoH!*, LARAG is modifying the chassis of the original truck to incorporate hydrogen propulsion. To make the transition to sustainable mobility a reality, the Nomads foundation leads and coordinates the consortium of the four *GoH!* partners to ensure the success of the project. Its actions range from general coordination to analyzing the impact on the development of the professions and training of tomorrow.

However, the *GoH!* Generation of Hydrogen project does not only consist of an electric-hydrogen propulsion truck. It is a global concept, which, through the realization of this vehicle, connects an ensemble of knowledge, allowing an integrated approach to decarbonized mobility in the years to come. This new technology will rely on new skills, which will require a deep transformation of formal training, in order to dispose, in these pioneering technologies, qualified professionals.

The Nomads foundation makes this goal its priority: Switzerland, known worldwide for its training and schooling system must keep its rank by preparing its apprentices and specialists to master the technologies of the future. The *GoH!* initiative is the ideal opportunity to use a technological innovation as a springboard to implement an ambitious evolution of training in the relevant professions. This transversal program integrates a whole value chain including logistics and training. It does not limit itself only to a prototype but constitutes the starting point of a constructive answer to the much-needed ecological transition.



Hydrogen technology: “A 40t hydrogen and its impact on businesses”

Article by Sabrina Streuli, Skills Development Specialist, Center for career development, HEFP (excerpts)

The Generation of Hydrogen project brings together private players around the design, operation, maintenance and fuel supply of a 40t prototype running on green hydrogen. A sector set to develop. The HEFP is a partner and analyzes the evolution of the professions affected.

The megatrends marking the evolution of society and the economy have a significant impact on the activity of professionals. Energy transition objectives promote the emergence of new technologies that pose challenges in terms of skills management.

How to anticipate the evolution of the qualification needs of the workforce?

Mapping of new skills

The analysis of the activities of the professionals involved in this project is a demonstration of applied prospective management of skills. As a partner of the Nomads Foundation, the Center for the Development of Professions of the HEFP goes to meet the employees active in the prototype. The evaluation of the gap between their initial background – training and experience – and the new skills to be acquired to work on the prototype offers a projection of the evolution of the professions impacted by the development of hydrogen, and consequently, training facilities.

A transversal approach

The analysis covers the entire hydrogen sector, from production to operation, including distribution. The GoH! has already highlighted the influences on the mechanical and transport professions, but also on those related to energy production, certification or emergency services, for example.

This approach suggests that the process of developing professions "in silos", i.e. by profession or professional fields, is likely to evolve towards greater collaboration and flexibility to meet the challenges of innovation and energetic transition. In addition, the time required to adapt certification training could thus be optimized.



GoH! partners

Migros Genève: *Better in everyday life*

Anchored in the heart of the canton since 1945, Migros Geneva offers high quality food and non-food products at the best prices. The company is owned by more than 135,000 cooperative members. Its status as a cooperative, with no shareholders to remunerate, allows it to invest effectively in the medium and long term, particularly in terms of sustainable development. A dynamic partner of the local economy, Migros Geneva reinvests its profits for the benefit of consumers, employees, and the regional quality of life. The company is active in Geneva, in the district of Nyon and in neighboring France and is keen to stay close to its customers in a welcoming and efficient sales network. When it comes to sustainability, Migros is committed with firm promises and concrete projects and contributes to a future we all want. Migros does everything in its power to protect the environment, promote sustainable consumption, apply exemplary social conditions for society and employees and promote a healthy lifestyle. In all its activities, including transport, Migros strives to find balanced economic, ecological and social solutions. By transporting its goods with the *GoH!*, which only releases water, Migros is fulfilling its promise to reduce its carbon footprint and consolidating its progress towards sustainable logistics.

GreenGT

GreenGT is a benchmark company at the international level, engaged for a decade in the research and development of high-power electric-hydrogen mobility solutions. The independent company, located in Switzerland and France, has acquired experience and expertise in three areas of the hydrogen energy transition: engineering and systems dedicated to mobility (land, air, sea) and static vehicles. high power, motorsport and the development of responsible hydrogen ecosystems at the scale of territories (cities, regions) and sectors of activity.

SIG

Every day, SIG provides essential services to Genevans. It provides water, gas, electricity, thermal energy and supports the development of smart districts for Geneva. It treats wastewater, recovers waste and implements energy and environmental efficiency programs. Through its collaboration, SIG contributes to the development of sustainable mobility and the deployment of alternative energy sources in order to support the energy transition.

LARAG

LARAG is the Swiss specialist for commercial vehicles and heavy goods vehicles, and engines, including reciprocating engines. The company offers a complete service around commercial vehicles – from the sale of new vehicles to the design of vehicles and mechanical engineering, through the repairs and the restoration of damaged vehicles. Thanks to its specialist knowledge and experience, LARAG offers customer-specific solutions. LARAG is represented throughout Switzerland by 8 branches, also in Geneva. For LARAG, training is a real priority. Indeed, about one-fifth of these employees are apprentices. As part of the GoH! project, she is in charge of assembling the GreenGT propulsion chain. LARAG also undertakes to implement training for mechanics in the field of hydrogen propulsion as well as the maintenance of the prototype adapted to the new elements.



Nomads Foundation

The Nomads Foundation is a private, public, non-profit foundation. It offers its partners a multidisciplinary co-creation platform. Creator of links, the Nomads Foundation makes it possible to imagine and develop joint projects with strong impacts around transversal themes (mobility, energy efficiency, Greenjobs, etc.). In addition to offering concerted and concrete solutions to the societal challenges of today and tomorrow, the Nomads Foundation relies on these projects and members to integrate changes in skills needs across the board. It thus participates, with its partners, in anticipating the training of tomorrow.

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