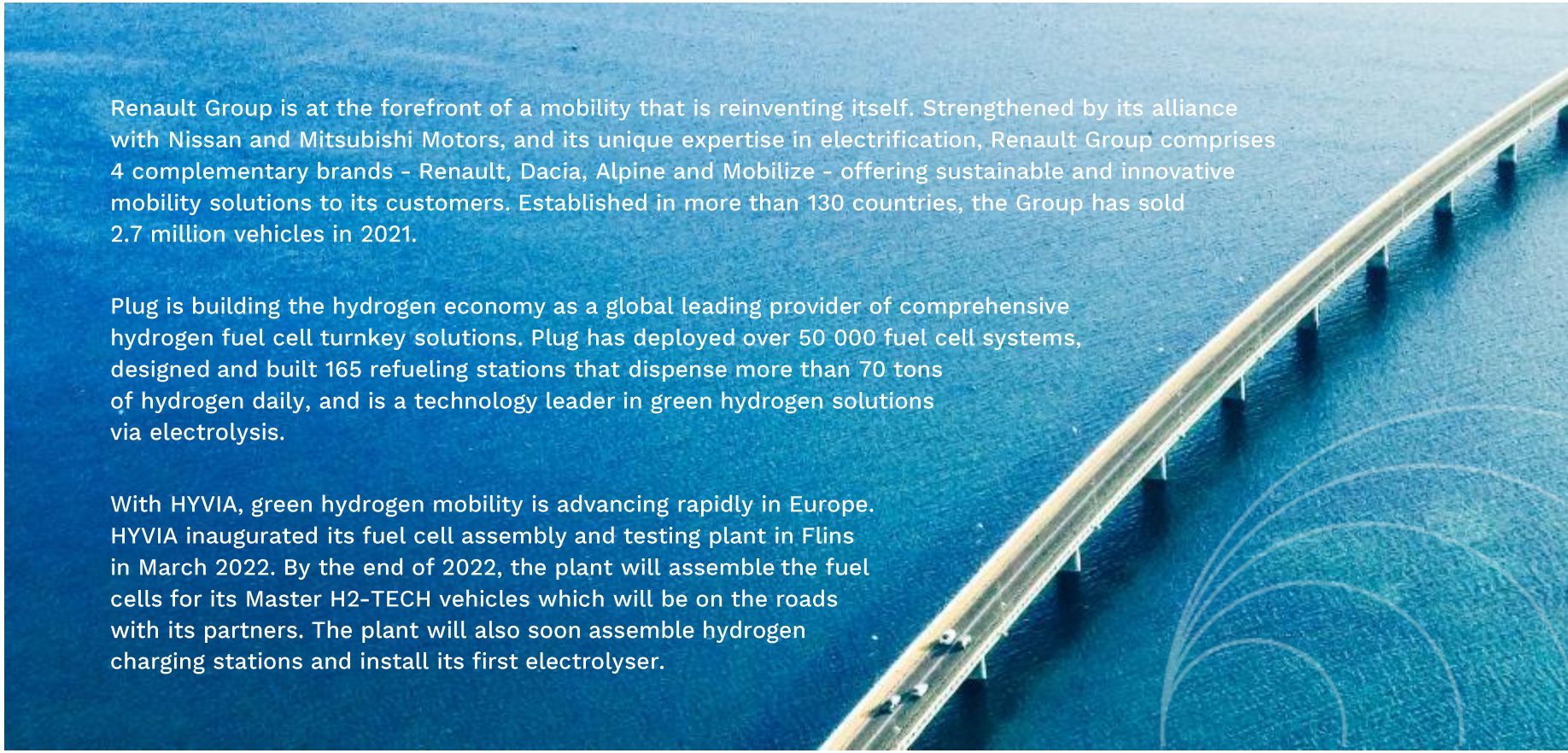

HYVIA
leading green H_2 mobility
“HY” for hydrogen, “VIA” for road: HYVIA paves a new way forward for professional carbon-free mobility, with concrete green hydrogen mobility solutions.

HYVIA, JOINT VENTURE OF **RENAULT GROUP AND PLUG**

Created in June 2021, HYVIA is a joint venture equally owned by Renault Group, a major player in the automotive industry, and Plug, a pioneer and world leader in turnkey hydrogen and fuel cell solutions.



Renault Group is at the forefront of a mobility that is reinventing itself. Strengthened by its alliance with Nissan and Mitsubishi Motors, and its unique expertise in electrification, Renault Group comprises 4 complementary brands - Renault, Dacia, Alpine and Mobilize - offering sustainable and innovative mobility solutions to its customers. Established in more than 130 countries, the Group has sold 2.7 million vehicles in 2021.

Plug is building the hydrogen economy as a global leading provider of comprehensive hydrogen fuel cell turnkey solutions. Plug has deployed over 50 000 fuel cell systems, designed and built 165 refueling stations that dispense more than 70 tons of hydrogen daily, and is a technology leader in green hydrogen solutions via electrolysis.

With HYVIA, green hydrogen mobility is advancing rapidly in Europe. HYVIA inaugurated its fuel cell assembly and testing plant in Flins in March 2022. By the end of 2022, the plant will assemble the fuel cells for its Master H2-TECH vehicles which will be on the roads with its partners. The plant will also soon assemble hydrogen charging stations and install its first electrolyser.

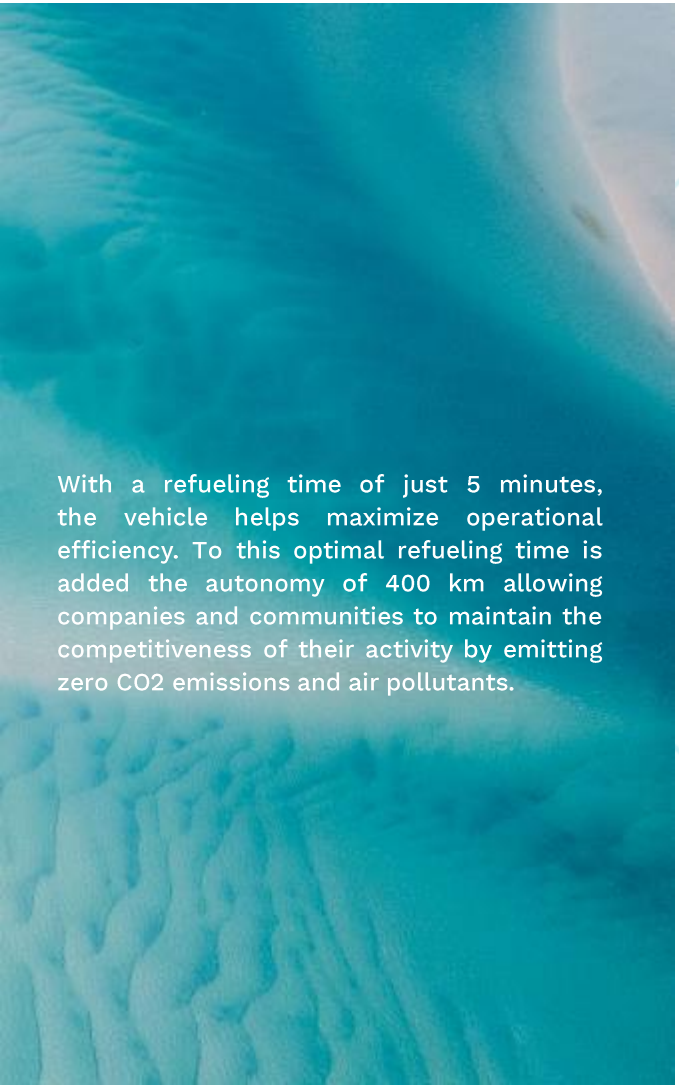
GREEN HYDROGEN **STRENGTHS**

Green hydrogen from the electrolysis of water is a clean, carbon-free fuel .

Combining green hydrogen with fuel cell technology generates the needed electricity to power the engine and recharge the vehicle's battery. The chemical reaction emits no pollutants and only releases water which reduces their environmental impact and optimizes the operational efficiency of their activity.

At HYVIA, green hydrogen mobility solutions are adaptive and allow professionals to be supported in their energy transition.

THE BENEFITS FROM H2-TECH TECHNOLOGY



With a refueling time of just 5 minutes, the vehicle helps maximize operational efficiency. To this optimal refueling time is added the autonomy of 400 km allowing companies and communities to maintain the competitiveness of their activity by emitting zero CO2 emissions and air pollutants.

5 MINUTES :
hydrogen refueling time of a HYVIA vehicle thus maximizing vehicle availability

400 KM OF AUTONOMY
according to the WLTC cycle

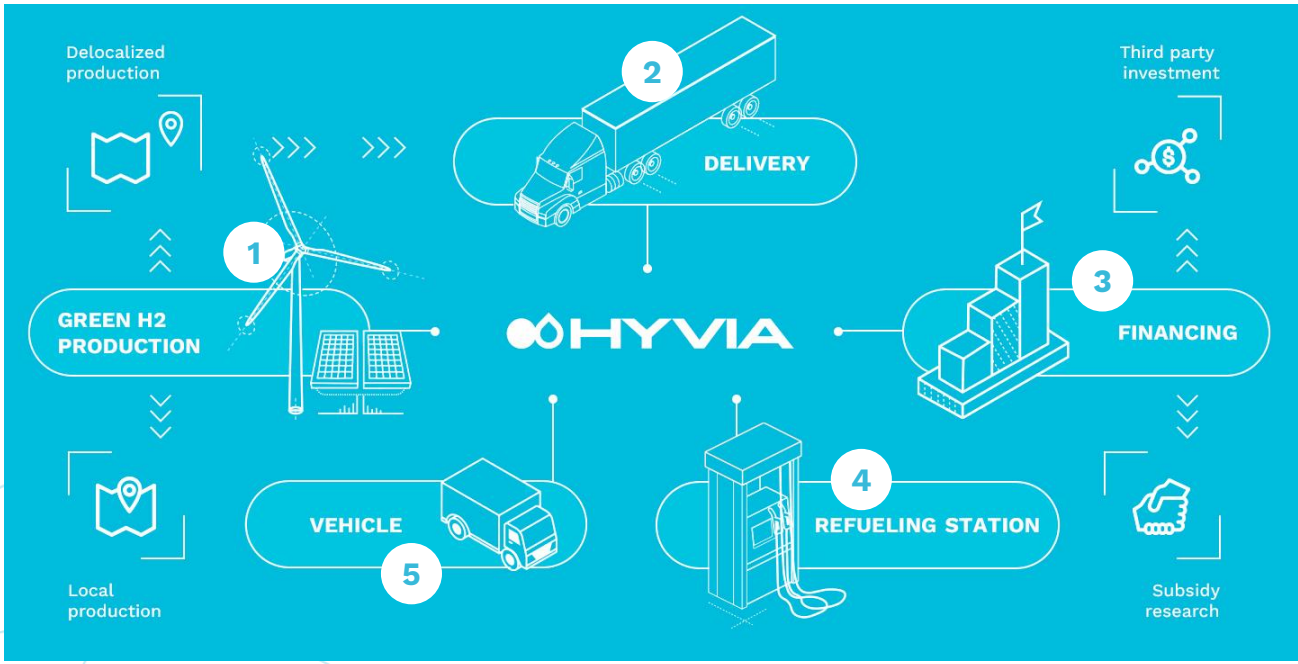
ZERO CO_2 EMISSIONS
and air pollutants

OPERATIONAL EFFICIENCY PRESERVED
thanks to H2-TECH commercial vehicles

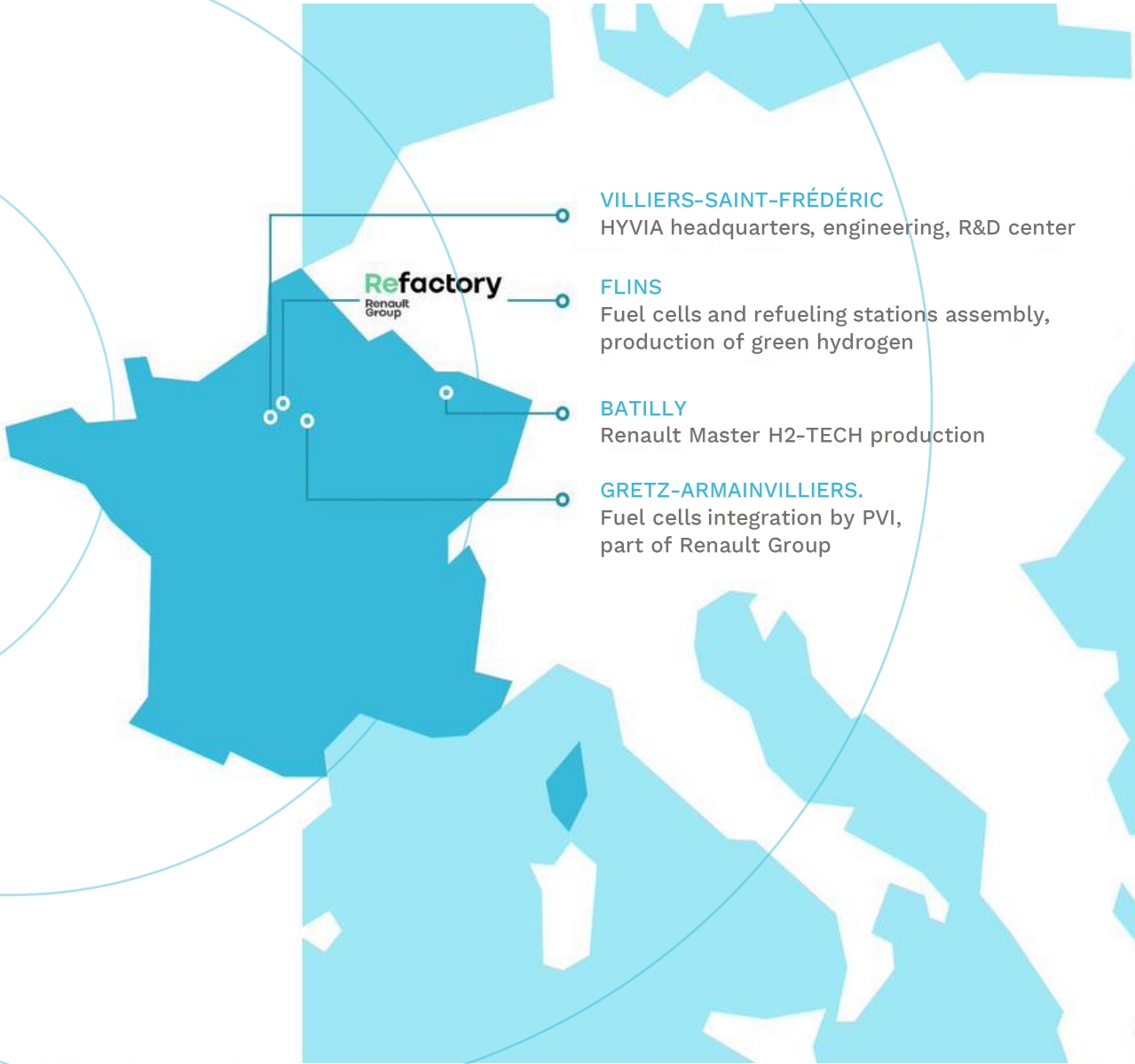
A COMPLETE AND UNIQUE **HYDROGEN ECOSYSTEM**

HYVIA is the only specialist in green mobility solutions offering a complete ecosystem which includes:

1. Green hydrogen production (electrolysers)
2. Its delivery
3. Consulting and financing services
4. Hydrogen distribution
5. A range of Renault Master H2-TECH
6. HYVIA is already anticipating the end-of-life management of batteries, cells and vehicles by being part of the circular economy strategy of Renault Group



MADE IN **FRANCE**



VILLIERS-SAINT-FRÉDÉRIC
HYVIA headquarters, engineering, R&D center

FLINS
Fuel cells and refueling stations assembly, production of green hydrogen

BATILLY
Renault Master H2-TECH production

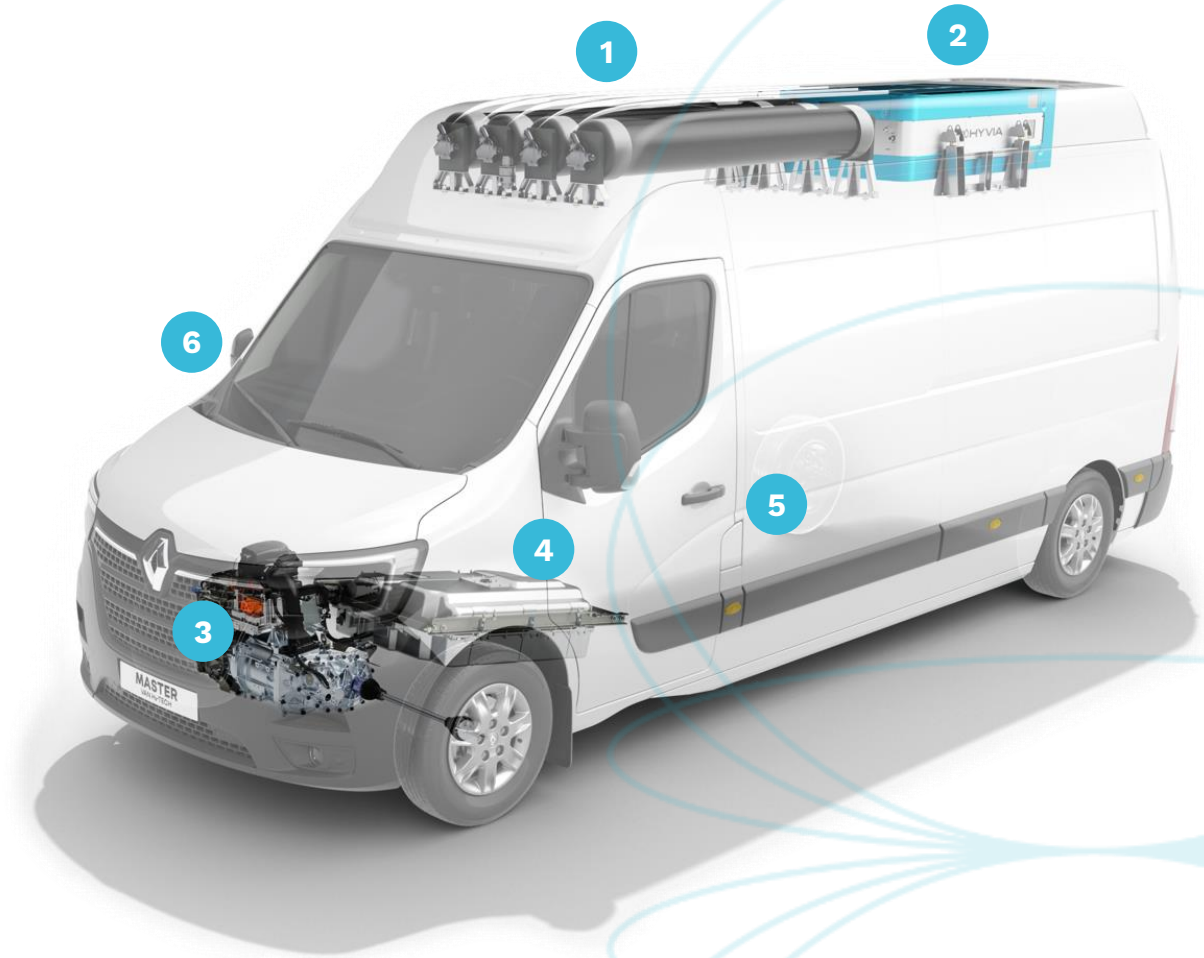
GRETZ-ARMAINVILLIERS.
Fuel cells integration by PVI, part of Renault Group

NEW RENAULT MASTER VAN H2-TECH

Supporting professionals in their transition to carbon-free mobility means providing concrete and effective solutions allowing them to be more competitive. The new Master Van H2-TECH has been designed with this in mind. An innovative panel van with a refueling time of a few minutes and an autonomy suitable for professional use. It's today's panel van for tomorrow. The new Renault Master Van H2-TECH allows all professionals to benefit from all the advantages of carbon-free mobility while optimizing their operational efficiency.

INTEGRATED HYDROGEN **TECHNOLOGY**

1. hydrogen tanks 6,4 Kg 700 bar
2. fuel cell 30 kW
3. eMotor 57 kW
4. battery 33 kWh 400v
5. H_2 refueling hatch (driver side)
6. electric charging hatch (passenger side)



CARBON-FREE MOBILITY **WITHOUT COMPROMISE**

OPERATIONAL AUTONOMY AND EFFICIENCY PRESERVED

With a refueling time of 5 minutes and a range of 400 km in real* use, the new Master Van H2-Tech perfectly meets the needs of companies and local authorities which have intensive use of their fleet and/or a high rate of daily use.

* The autonomy values indicated are based on the study of the WLTC cycle. They may vary according to conditions of use and various factors such as: speed, thermal comfort on board of the vehicle, driving style and outside temperature.

OPTIMIZED ENERGY EFFICIENCY

Dual Power is a hybrid intelligent system between the fuel cell and the battery that optimizes energy efficiency. This configuration allows to activate regenerative braking, extend the life of the fuel cell and have the best balance between the consumption of hydrogen and electrical energy for an optimized cost of use.

A POWERFUL AND RELIABLE PANEL VAN

EFFECTIVE VOLUME 12M3

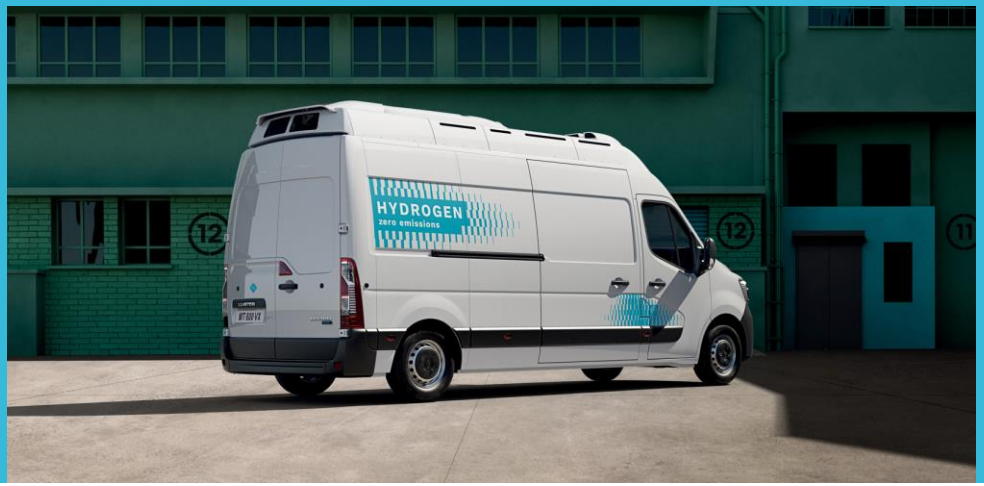
HEIGHT IN CARGO AREA 1M80

1000 KG OF PAYLOAD

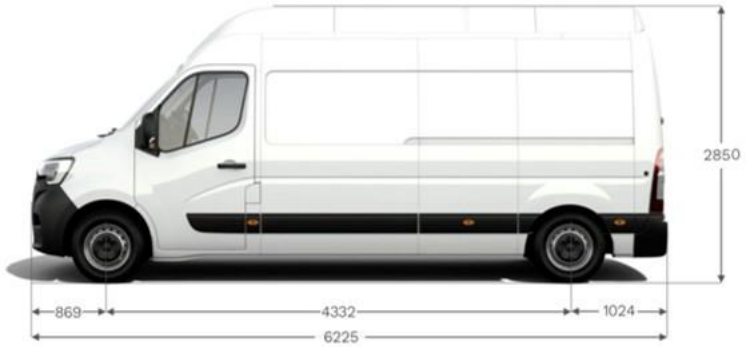
ASSISTANCE SCREEN TO MANAGE AUTONOMY AND ANTICIPATE H2 FILLING

EQUIPEMENT:

- AEBS with EBD (Electronic Brake force Distribution)
- Lane departure warning system
- Digital tachograph
- Seatbelt warning – driver and passenger
- Spare wheel



TECHNICAL SPECIFICATIONS



All dimensions in mm.

A VEHICLE WHICH IS IN THE N2 CATEGORY BUT CAN BE DRIVEN WITH A B LICENSE

The integration of fuel cells, tanks and battery increasing the total weight of the vehicle, our panel van goes to the category of vehicle N2*. However, holders of a B license can drive our panel van, thanks to the European Union who has voted for a derogation** to promote the development of zero-emission vehicles.

Effective volume	**GVW(1)**	**3940 kg**
12m³	Min. kerb weight (2)	2854 kg
	Max. payload (3)	1086 kg
	Roof payload	0 kg

(1) GVW or gross vehicle weight means a vehicle's total weight, including its load.
(2) Min. kerb weight is the weight of a vehicle without driver and with a 90% full tank. This value is for a basic version and may vary depending on the equipment and engines (up to 330 kg). (3) The payload results from the difference between GVW and min. kerb weight.

All dimensions and technical characteristics are given subject to approval.
*N2 category vehicle: vehicle designed and built for the transport of goods with a maximum weight greater than 3.5 tons and less than or equal to 12 tons.
** Refer to the legislation of your country to find out the terms of application of this derogation (Directive 2018/645).

CONTACT

sales@hyvia.eu

When writing these lines, the vehicle is in the process of homologation and is not yet available for sale.