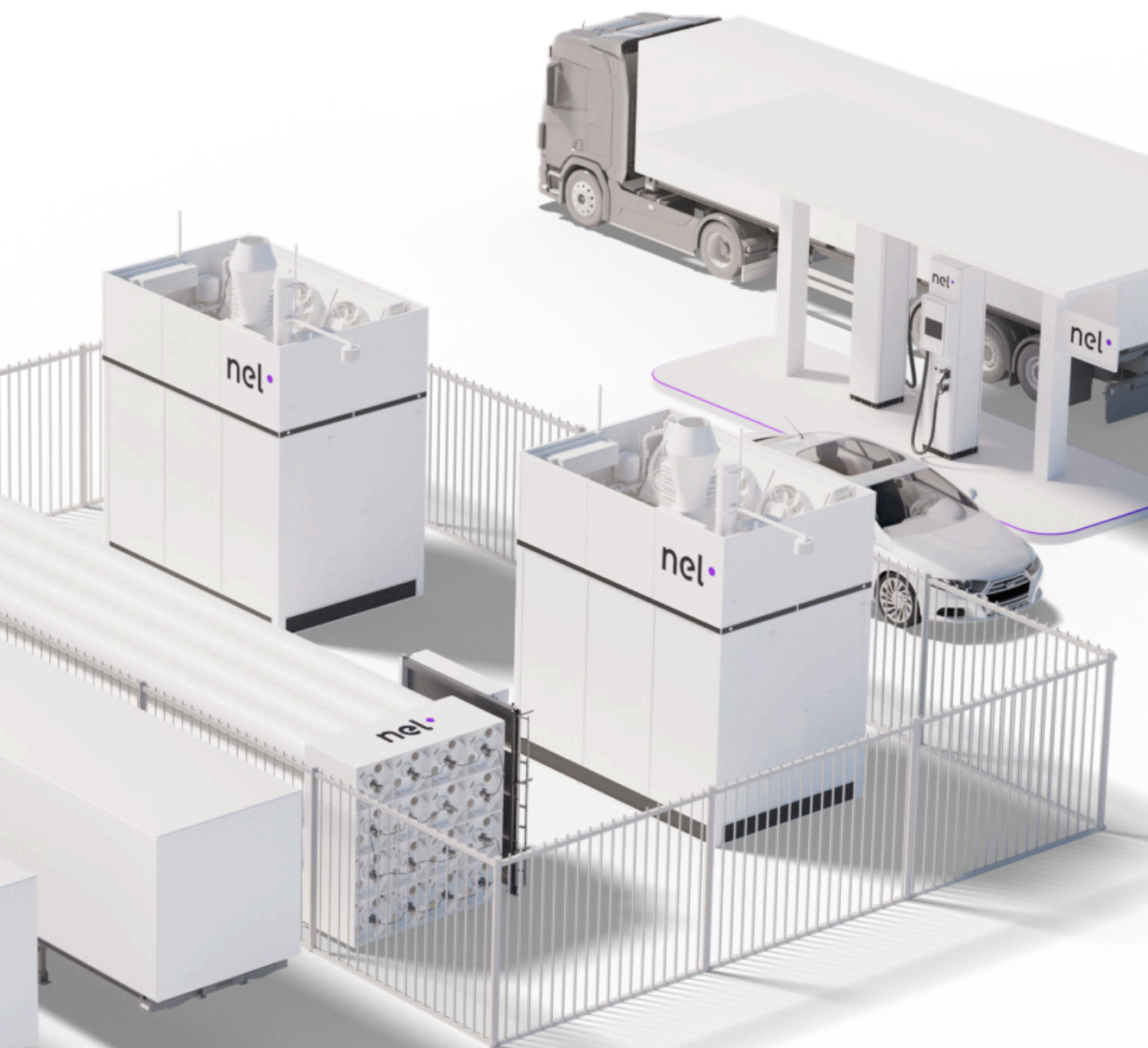


Nel Hydrogen Fueling

Empowering generations with clean energy forever



nel•

Historic Achievements

Our mission

We unlock the potential of renewables
and enable global decarbonization

Our vision

Empowering generations with
clean energy forever

Our businesses



Renewable energy

We cater to power-to-gas,
power-to-industry markets,
and more



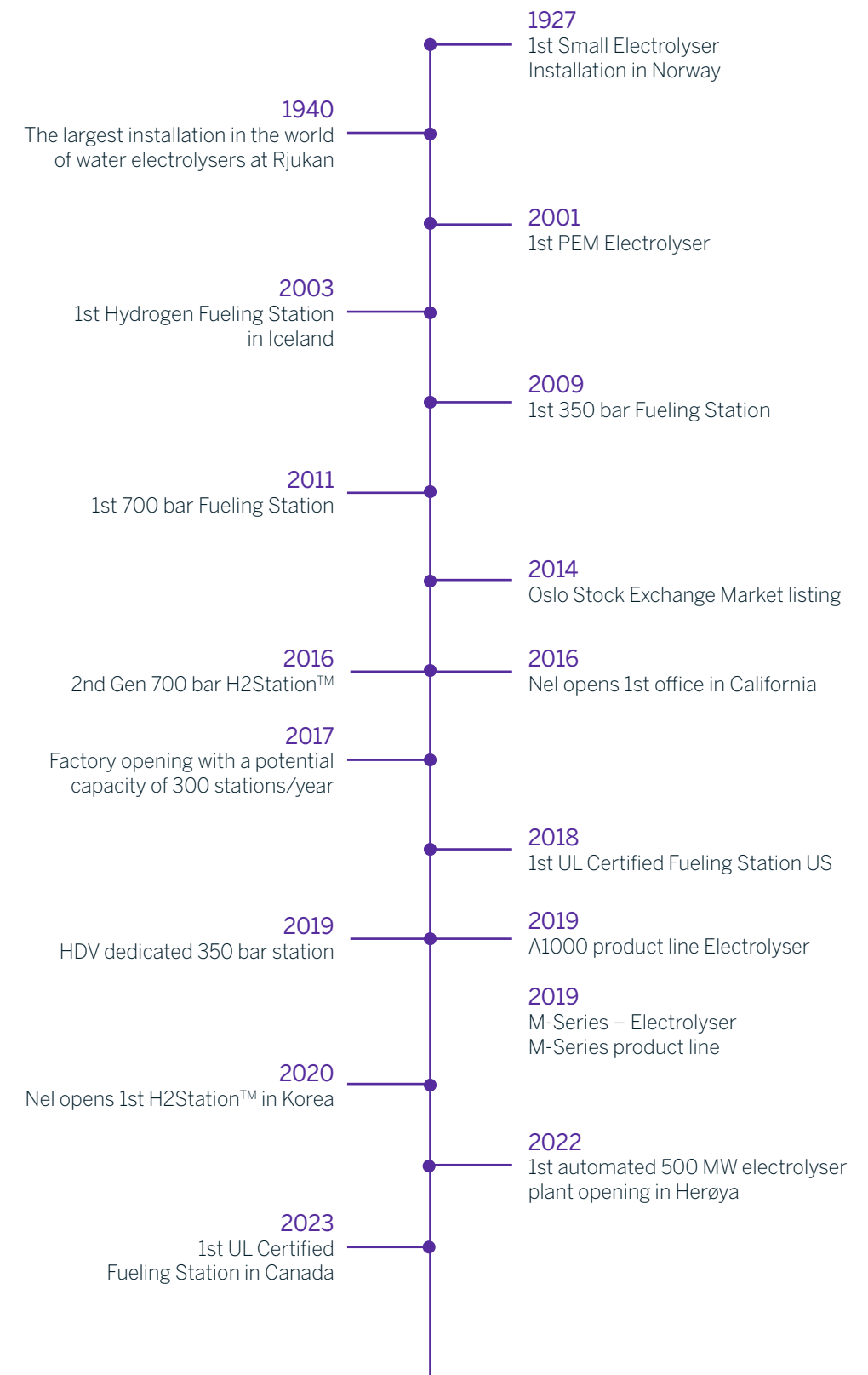
Hydrogen production

Our electrolyzers are for
markets including fertilizer,
green steel and cement



Hydrogen fueling

We provide fueling
equipment for cars, trucks,
buses and other markets



Our Manufacturing Plants

PEM Electrolysers Plants

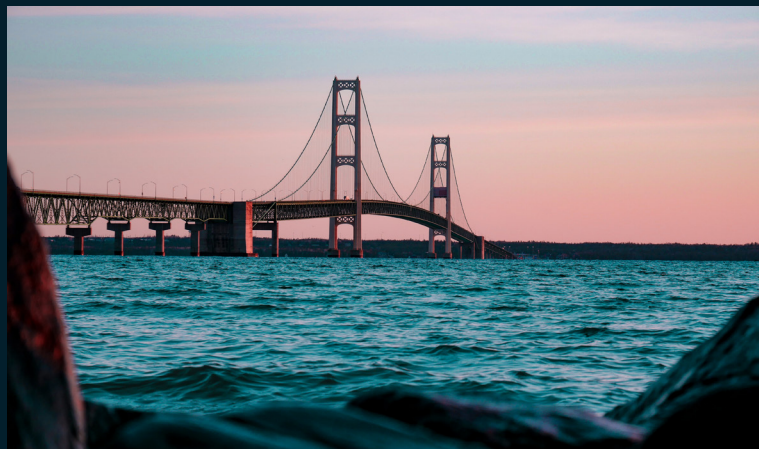
Wallingford, USA

Systems delivered
2,700+
Production Capacity
>50 MW/year



Michigan, USA

Announced in 2023
Production Capacity
Up to 4 GW
In the planning phase



Alkaline Electrolysers Plants



Nottoden, Norway

Systems delivered
800+
Production Capacity
40 MW/year



Herøya, Norway

Production Capacity
500 MW/year
(with potential
expansion to 2 GW/
year)

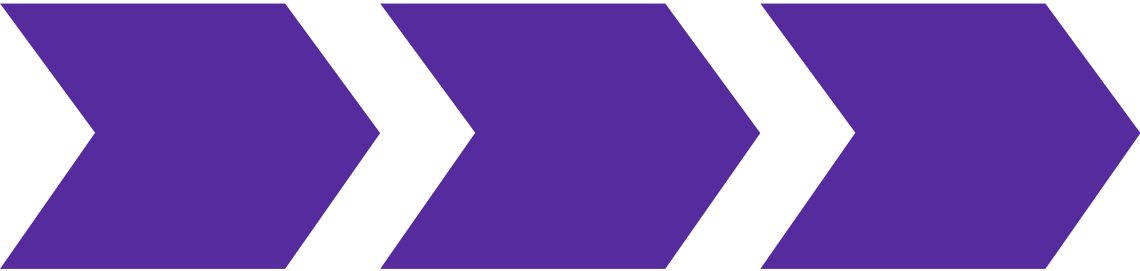
Hydrogen Fueling Stations









Herning, Denmark

Systems sold
150+
Potential Production
Capacity
300 stations/year

Control over full value chain

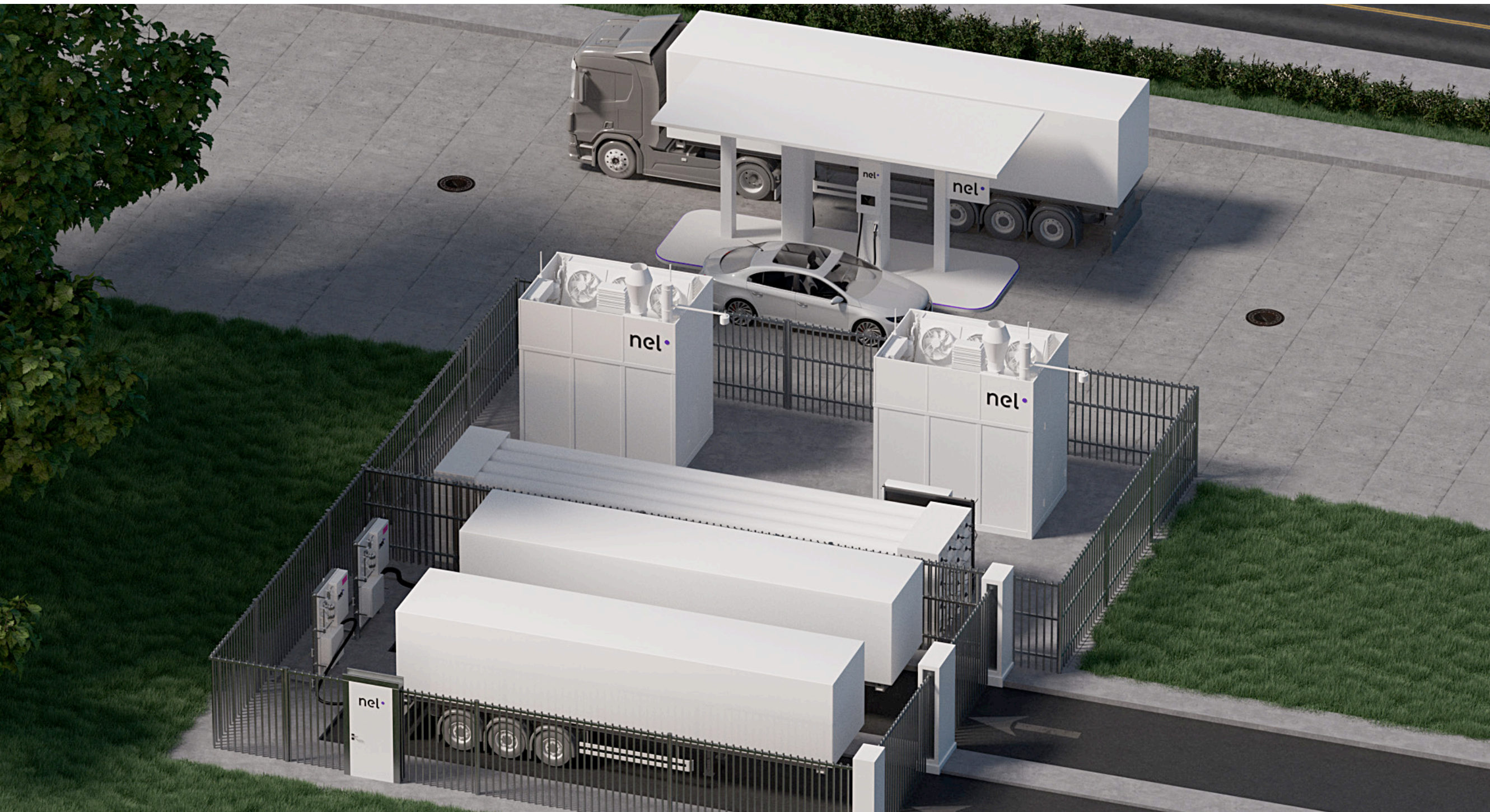


| | | | | | |
|---|---|--|---|--|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| Product Development | Sales | Procurement & Logistics | Production | Installation and Commissioning Services | Service |
| Product development based on Nel deep hydrogen knowledge and years of field experience for better service and customer experience | Sales is performed through an increasing share of key accounts | Long-term supply agreements with strategic suppliers | Lean production flow, aiming for standardization and efficiency. | Project Management and Engineering support customers in permitting, 3rd-party approvals etc. | Global 24/7 monitoring system Preventive and proactive maintenance |
|  |  |  |  |  |  |

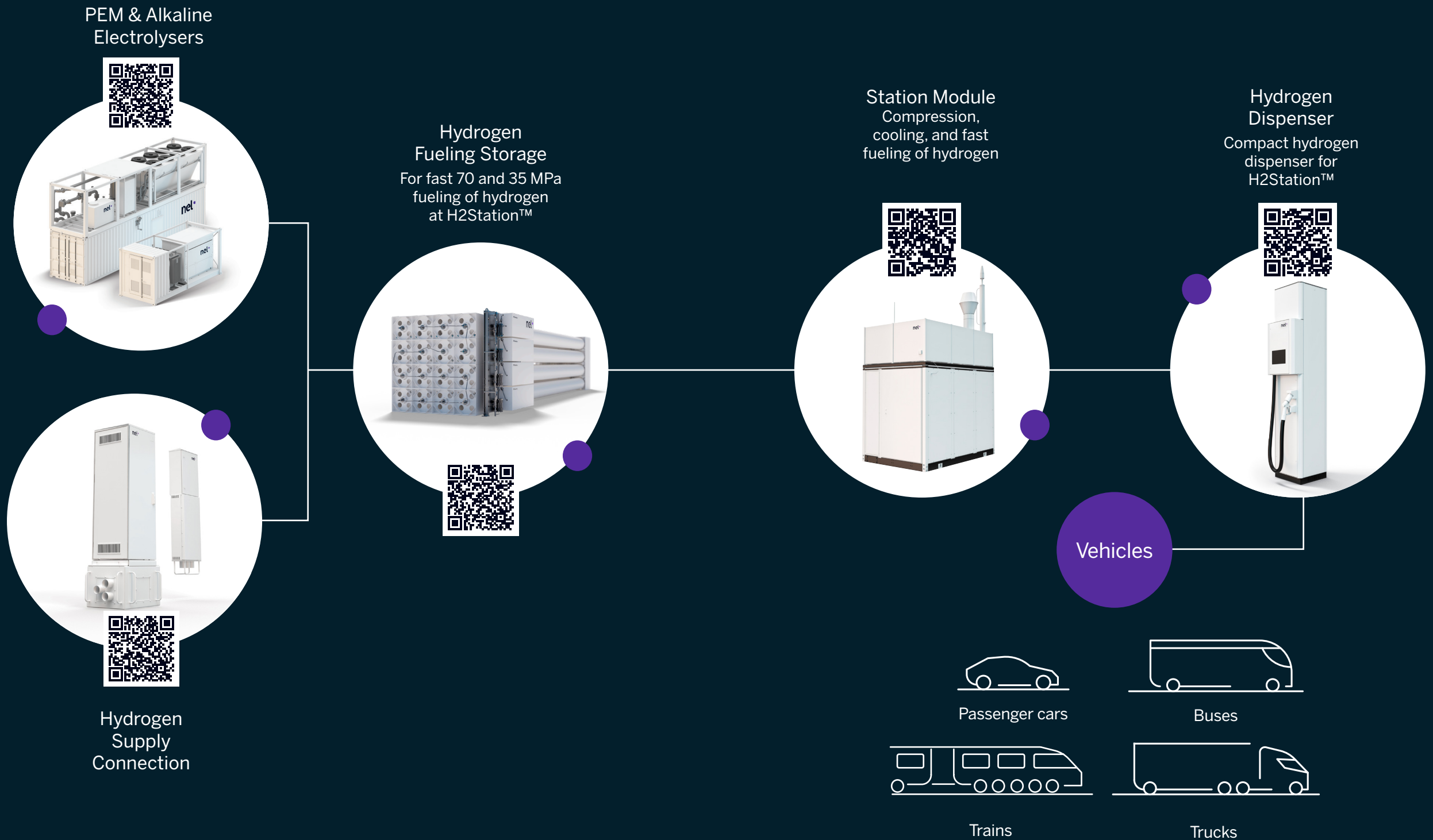
Safe and Fast Fueling of Hydrogen

Experience the convenience of our all-in-one hydrogen fueling station. It's designed to effortlessly combine hydrogen supply, compression, and cooling processes with efficient storage and user-friendly dispensing. Ideal for smooth and reliable hydrogen fueling solutions.

20+ years of experience and one of the largest station network worldwide



Full System Breakdown



Customer stories

Multipurpose station in South Korea

Location: Pyeoungtaek, Korea
Customer: Kogas Tech
Station Capacity: 600 kg/day
Operational since 2021

KOGAS-Tech



Bus Station in Netherlands

Location: Heinenoord, Netherlands
Customer: Everfuel
Station Capacity: 1,200 kg/day
Operational since 2022

Everfuel 
beyond renewables



Buses in London

Location: London, UK
Customer: TfL
Station Capacity: 1,200 kg/day
Operational since 2021



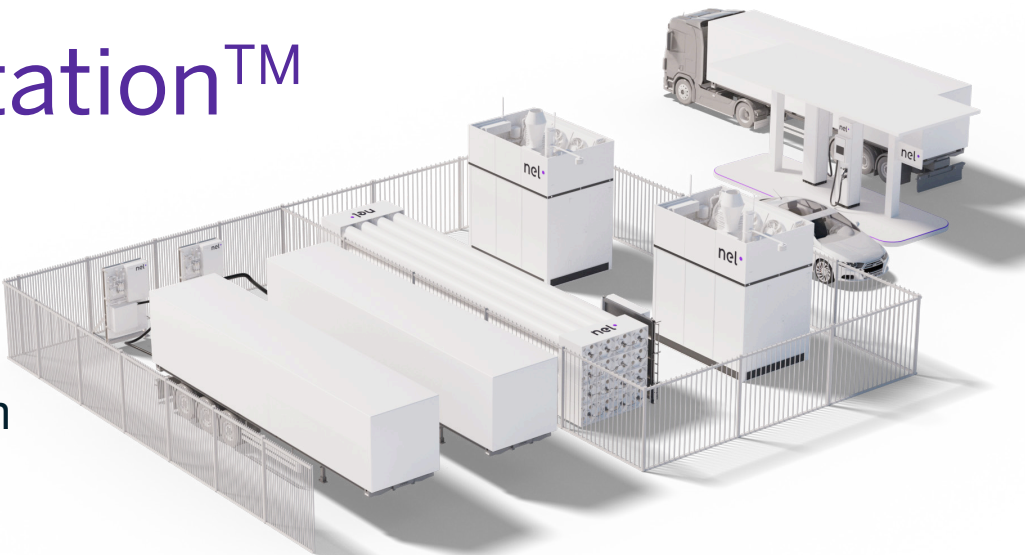
Multipurpose station in Poland

Location: Solec Kujawski, Poland
Customer: Solbet
Station Capacity: 500 kg/day
Operational since: 2023

SOLBET 
SINCE 1951



H2Station™



European version of the product with swap supply

Hydrogen Fueling Station

| | HS004 2-stage | HS-ABB LP Duplex | HS-AAA HP Duplex |
|---|--|---|--|
| Region | Europe | Europe | US/Canada |
| COMPRESSOR PERFORMANCE AND ENERGY CONSUMPTION | | | |
| *Energy consumption for compression of Hydrogen | | | |
| Inlet Pressure @20 MPa | 50 kg/h & 1.1 kWh/kg | 102 kg/h & 1.2 kWh/kg | 44 kg/h & 2.8 kWh/kg |
| Inlet Pressure @45 MPa | | | 121 kg/hr & 1.3 kWh/kg |
| SAFETY EQUIPMENT | | | |
| Key RCS | CE Marked Functional Safety EN61511 ISO 9001 Certified | CE Marked Functional Safety EN61511 ISO 9001 Certified | UL/cUL Certified Functional Safety EN61511 ISO 9001 Certified |
| Key Safety Equipment | Full safety Instrumented system (SIS) incl. Mechanical safety - shutoff valves Fully autonomous safety software Leak detection software Hydrogen and CO2 gas detectors Smoke and UV detectors | | |

| | HS004 2-stage | HS-ABB LP Duplex | HS-AAA HP Duplex |
|---------------------------------|--|---|---|
| Region | Europe | Europe | US/Canada |
| FUELING INFORMATION | | | |
| Ambient temperature | -20 to 40°C | | |
| Storage pressure level | 22.5, 45 and 93 MPa | 45 MPa | 45 MPa |
| Inlet pressure range | 3 - 20* MPa *can be increased by using a pressure regulator | 3 - 45 MPa | 6 - 50 MPa |
| Flowmeter / accuracy | Coriolis mass flow meter | | |
| Light Duty Fueling Protocol(s) | H35-T20 SAE J2601-1 (1.2-6 kg) H70-T40 SAE J2601-1 (2-10 kg) | N/A | H70-T40 SAE J2601-1 (2-10 kg) |
| Medium Duty Fueling Protocol(s) | H35-T20 SAE J2601-1 (6+ kg) | H35 Nel Optifill® | H35 Nel Optifill® H70-T40 JPEC S-0003 |
| Fueling Nozzle | Compliance with ISO 17268 and SAE J2600 H35: 35 MPa, Normal Flow H70: 70 MPa, Normal Flow | Compliance with ISO 17268 and SAE J2600 H35: 35 MPa, High Flow | Compliance with ISO 17268 and SAE J2600 H35: 35 MPa, Normal Flow H70: 70 MPa, Normal Flow |
| Fueling protocols | SAE J2601-1 (SAE J2601 -2)* | SAE J2601-2 - Optifill | SAE J2601-1 SAE J2601-2 - Optifill |
| | *SAE J2601-2 is used for for H35 fuelings | | |
| Point-of-Sale (POS) interface | IFSF 2.32 and Gilbarco Two-Wire Protocol | | |
| UTILITY REQUIREMENT | | | |
| Voltage | 400 VAC Three phase + N | 400 VAC Three Phase + N | 480 VAC Three Phase + N |
| Current | 150 A | 225 A | 250 A |
| Power factor | > 0.9 | > 0.9 | > 0.9 |
| Inlet connection | Hydrogen Connection = 9/16" C&T MP or 13/16" - 16 UNF - C&T MP or 3/4" BSPT-M Pneumatic Connection = 12 mm hose RSI06.2100/RSI06.2101 | | |
| DIMENSIONS | | | |
| | Length | Width | Height |
| Station Module | 3.3 m | 2.2 m | 3.6 m |
| Dispenser | 0.5 m | 0.7 m | 2.5 m |
| Swap Panel | 1.3 m | 1.2 m | 2.0 m |
| Storage Vessels | 7 - 12.3 m | 0.6 - 2.4 m | 0.6 - 2.4 m |

Global Experience

North America 68+ stations

- 350 bar bus station in California with On-Site production
- 700 bar HDV station in California
- 700 bar LDV station in California

Europe 61+ stations

- 350 and 700 bar HDV/LDV stations in Poland with On-Site Production
- 700 bar LDV and 350 bar HDV station in France
- 350 bar bus station in Netherlands
- 700 bar LDV and 350 bar HDV station in Germany
- 350 bar bus station in the UK

Korea 15 stations

- 700 bar LDV station in Korea
- 700 bar LDV and HDV station in Korea



Our Offices

Nel Fueling Denmark

Office Address:
Vejlevej 5
7400 Herning, Denmark

Nel Fueling Austria

Office Address:
Gertrude-Fröhlich-Sandner-Straße 2,
Tower 9, Level 7
1100 Vienna, Austria

Nel Fueling USA

Office Address:
111 Academy, Suite 220,
Irvine CA 92617, United States of America

Nel Fueling Korea

Office Address:
Hasoro 3, Dong-gu,
Daejeon, 300-250, Republic of Korea

Request a
quotation



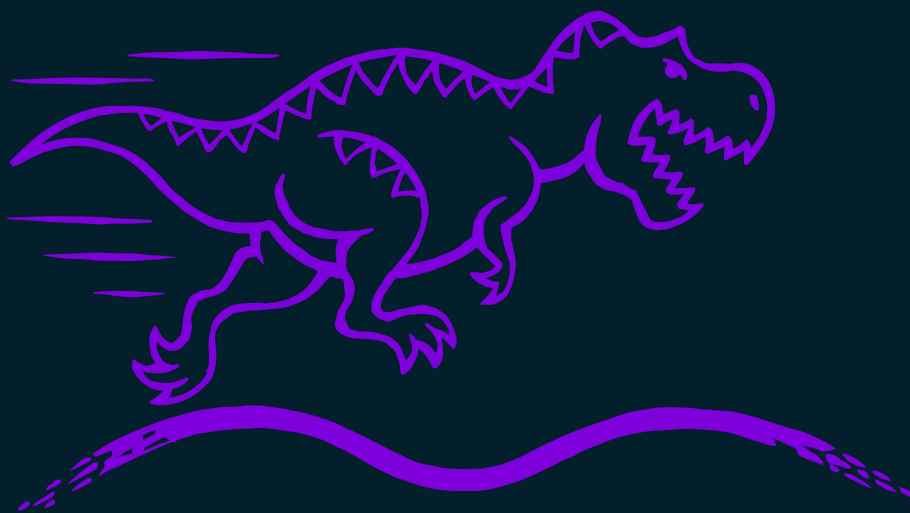
About us

- Nel is a pure play hydrogen technology company listed on Oslo Stock Exchange (NEL.OzqSE).
- At Nel we have a long story of providing safe and reliable H2 systems to our customers since 1927. Safety comes first in everything we do, everyday.
- We are a globally recognised player delivering optimal solutions for the production, storage and distribution of renewable hydrogen around the world.
- Nel is a leading manufacturer of hydrogen refuelling stations, with 130+ H2Station™ solutions delivered/in progress to 13 countries.
- We are the world's largest electrolyser manufacturer (alkaline and PEM), with >3,500 units delivered in 80+countries since 1927.
- Nel is a European company with manufacturing facilities located in Norway, Denmark and U.S., with an established global sales and service network.



Number one by nature

nel•



“Thanks for the ride
dinosaurs we’ll take it
from here”

Nel Hydrogen Fueling

Vejlevej 5
7400 Herning
Denmark