

# Nemo H<sub>2</sub>, a unique Dutch Innovation

Together we are Strong

**Alewijjnse**  
Empowering your business



Moritz Krijgsman

# Nemo H<sub>2</sub> – The Movie



Propulsion: 1 electrical stern thruster of 75 kW  
1 electrical bow thruster of 11 kW

Maximum speed 8,5 Kn

Cruising Speed 7 Kn

Auxiliary power: Av. consumption 6 kW

Energy generation: 2 Fuel Cell Engines 30kW each

Energy storage: 24 kg in 6 cylinders

Battery packs: 1 battery pack 70 kWh

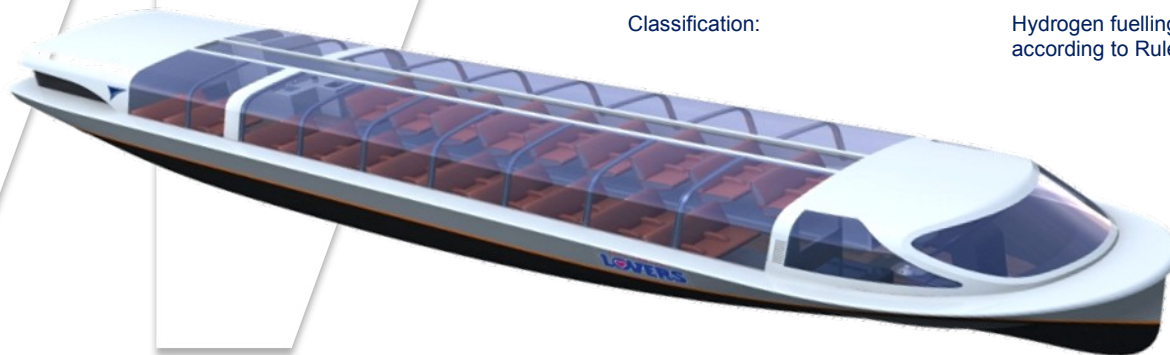
**Dimensions:**

Displacement 45 tons  
Length oa 21,95 m  
Beam oa 4,25 m  
Draught 1,10 m

## NEMO H<sub>2</sub> Amsterdam Canal Boat

Passengers and crew: 88

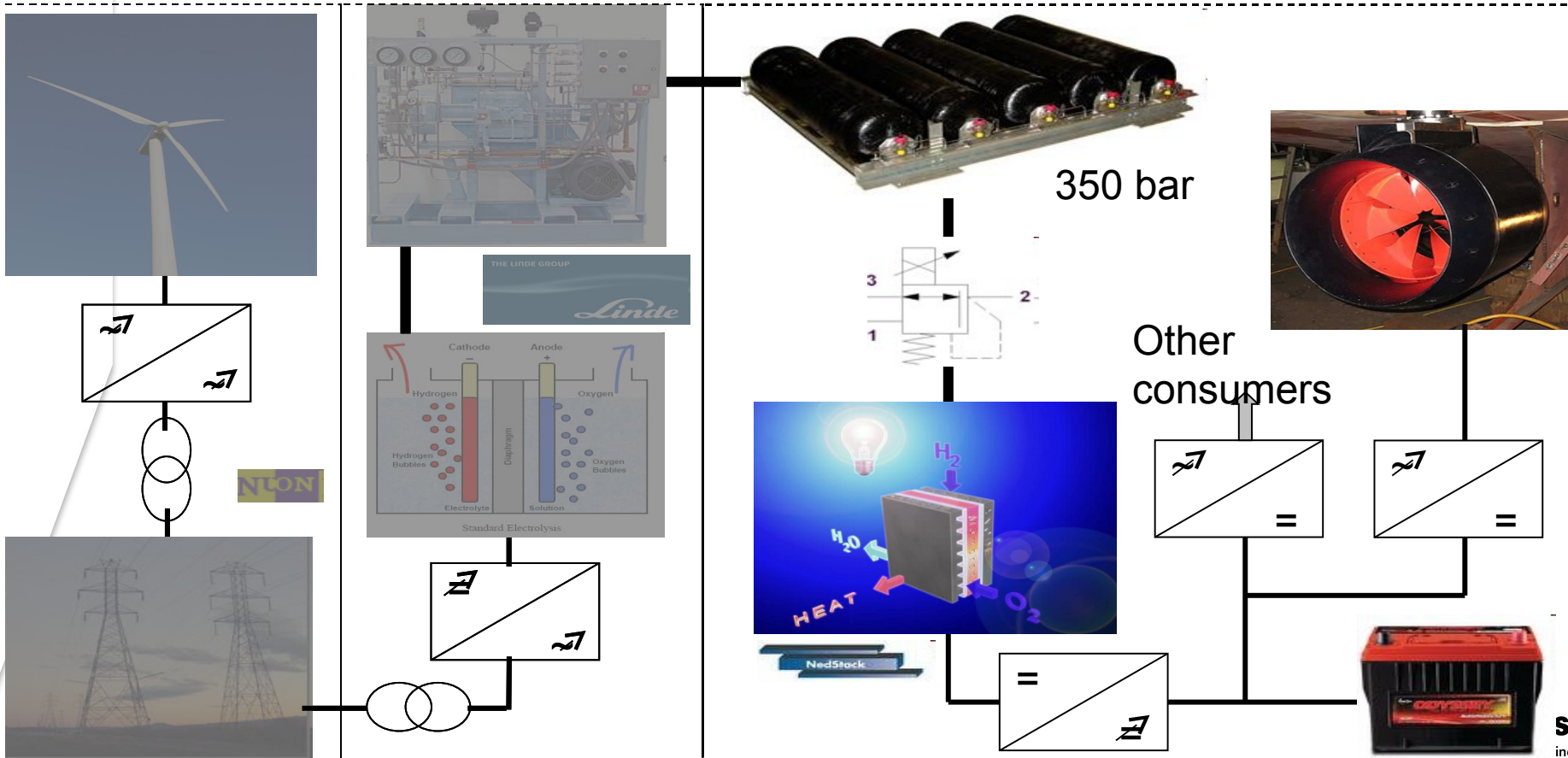
Classification: Hydrogen fuelling, storage, distribution and Fuel Cell Engines designed according to Rules and Regulations of Germanischer Lloyd





# Fuel Cell Solutions

From well to tank to propeller



# Electrical Distribution

The image shows a detailed view of an open electrical control panel on a boat. The panel is white and contains several shelves and compartments. On the left, there are three blue circuit breakers. Below them, there are orange cables connected to a terminal block. To the right, there are more shelves with various electrical components, including what appear to be pumps and drives. The background shows the boat's interior and the ocean.

Cooling Water Pumps

Variable Frequency Drives

Fire Protection

# Electrical Storage

A large battery bank is shown, consisting of numerous red battery modules arranged in a grid. Each module is connected to a central monitoring unit, which is a white circular device with a small display and several wires. The battery bank is housed in a white enclosure, and the surrounding area is a wooden deck. The text "Electrical Storage" is overlaid at the top, and "Battery Groups" and "Battery Monitoring" are overlaid at the bottom.

Battery Groups  
Battery Monitoring



# H<sub>2</sub> Distribution & Storage

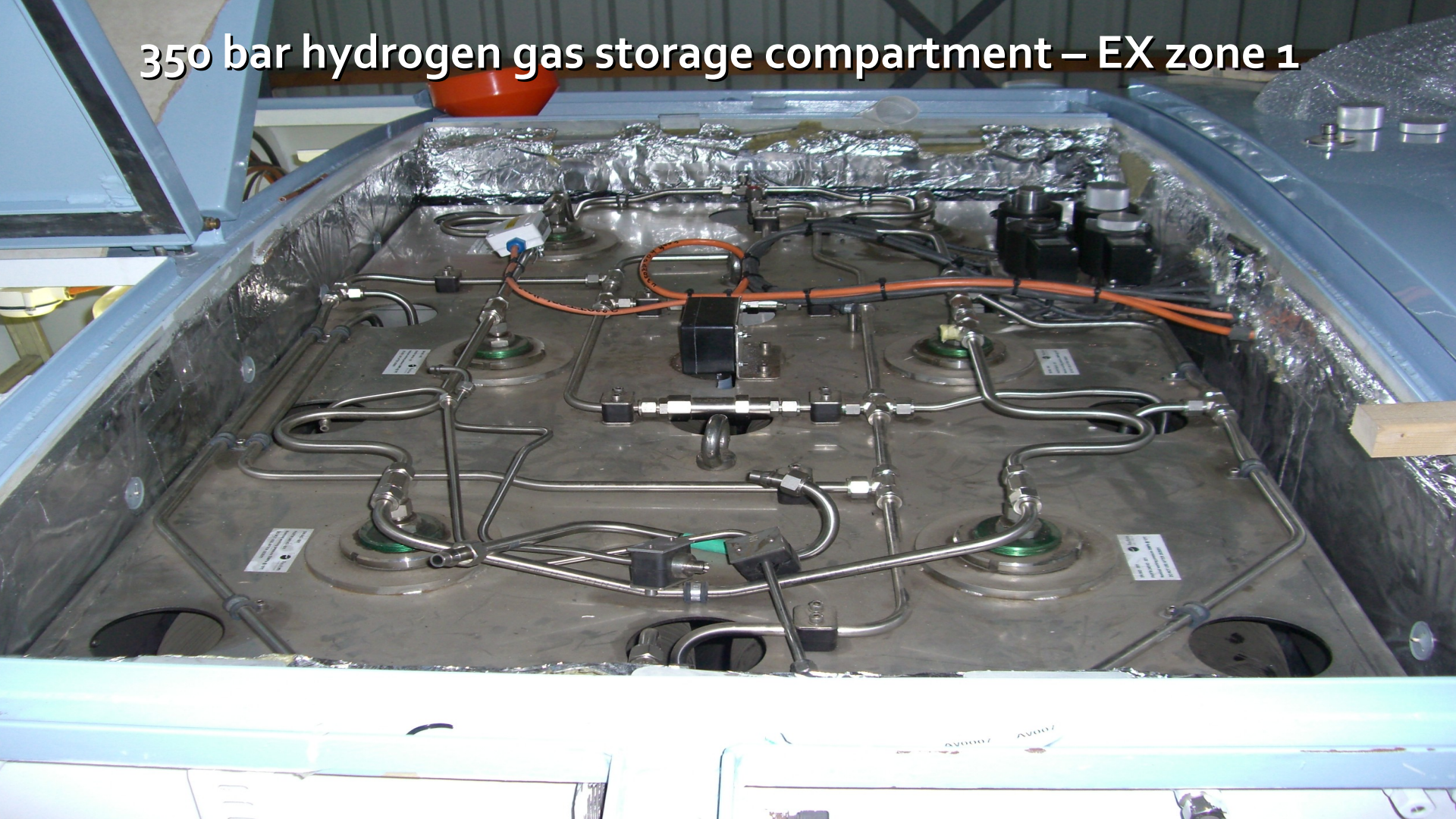


Hydrogen Storage

Safety Valves

Hydrogen Distribution

# 350 bar hydrogen gas storage compartment – EX zone 1





# Fuel Cell Engine

A 3D CAD rendering of a fuel cell engine system. The system is housed in a white, rectangular enclosure. On the right side, there is a row of seven blue cylindrical fuel cells mounted on a metal rail. In the center, there is a large, white, rectangular nitrogen supply tank. To the left of the nitrogen tank, there are several smaller, grey cylindrical components, likely sensors or control units, connected by red and black wires. The entire system is set against a background of a wooden floor.

Nitrogen Supply

Fuel Cells

30 kW fuel cell engine – by enclosure EX zone 2



A detailed view of a ship's bridge control room. The dashboard is equipped with several large digital monitors displaying various data, including radar and system status. There are also several control panels with buttons and knobs, and a central console with a keyboard and mouse. The overall design is sleek and modern, typical of contemporary maritime technology.

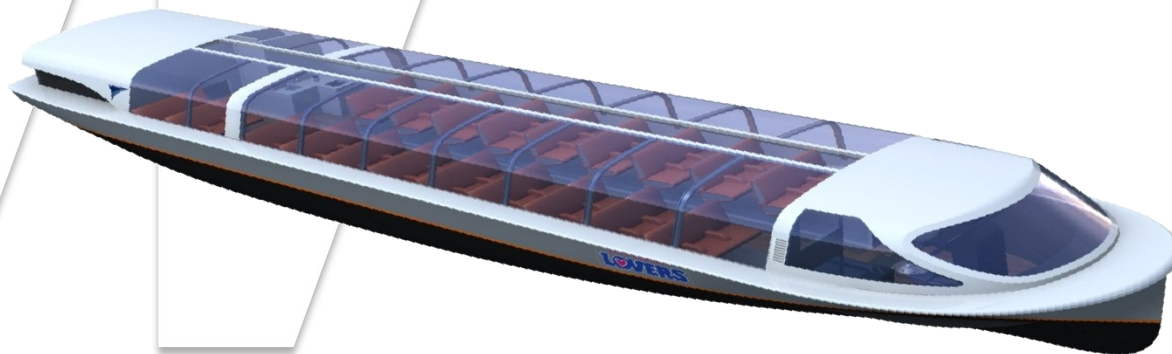
# Vessel Automation

Energy Management System

Alarm & Monitoring

Ship & Safety Management

# Collaboration





Zero emission is reality!

