



**Expert in
PEM electrolysis
technology for
green hydrogen**



Who

The French leader in PEM electrolysis.
Innovation is our DNA.

Why

Faced with the climate emergency,
we are taking action, by industrializing
our sector, to make a difference.

How

For our customers, we combine
technological know-how
and tailor-made support.

What

We contribute to decarbonizing
all segments of the economy, and we
facilitate the integration of renewable
energies into the energy system.

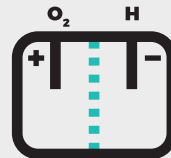
Elogen

Key figures

Elogen, the French technological leader in PEM technology



Over 15 years' experience
in electrolysis using
PEM technology



3 continents
Electrolysers
in operation in Europe,
Asia and the US



~60 highly-skilled employees,
covering all disciplines



400 MW
Minimum objective for annual
sales of electrolysis
capacity by 2030*

Elogen, a key player in green hydrogen with the largest production capacity in France

Current production capacity

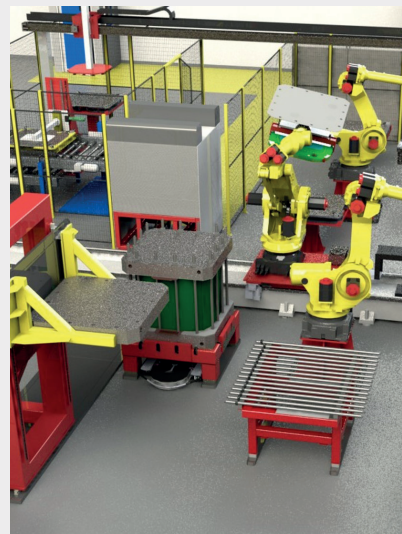
With its production facility near Paris (Les Ulis), Elogen is the only manufacturer of PEM electrolyzers in France.



- Total surface area of 2300 m²
- Innovation, Sales, Operations, Customer Service
- Assembly of electrolyzers and stacks, R&D test benches, engineering
- Production capacity: up to 160 MW per year thanks to a new assembly line commissioned in Q1 2022

Production massification

Gigafactory project



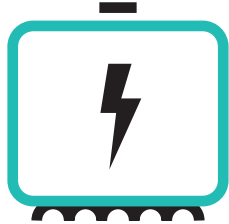
- Within the framework of IPCEI of hydrogen for financing the project
- Pre-notification expected in H1 2022 by the French Government to the European Commission
- Preliminary study achieved with a capacity target of more than 1GW
- Production to start in 2025, with a capacity above 1GW
- Site to be located in Vendôme, France.

Advantages of PEM technology

The best technology
to produce hydrogen
from renewable energies



Adapts to the inherent
intermittency of
renewable energies



Capable of managing
grid fluctuations
and offering
ancillary services

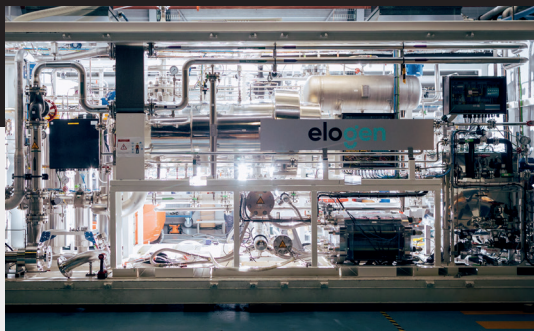


Simple to maintain,
no handling of
hazardous substances



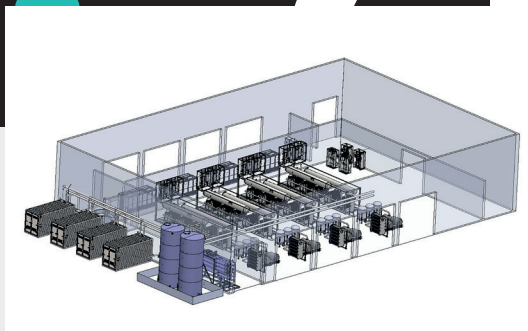
Saves space
due to limited
equipment footprint

Elogen's offering



Self-contained, turnkey electrolysers

- From 50 kW to several MW
- Optional hydrogen purification unit for mobility projects



Electrolysis plants

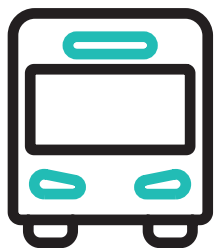
- Several dozen MW per plant
- Designed by Elogen
- In partnership with EPC (Engineering, procurement, and construction) contractors



Customer Services

- Maintenance
- Real-time monitoring of operational electrolysers
- Artificial intelligence tools for predictive maintenance

Elogen's markets



Mobility

Elogen supplies electrolyzers for mobility (heavy road vehicles, logistics, marine transportation), together with hydrogen stations where necessary.



Power-To-Gas

The hydrogen generated by Elogen's electrolyzers enables the production of synthetic fuels and molecules, for instance methane, which can then be used instead of natural gas.



Power-To-Power

Elogen's systems are perfectly suited to energy storage, especially in isolated areas powered by intermittent renewable energy sources or for offshore wind projects.

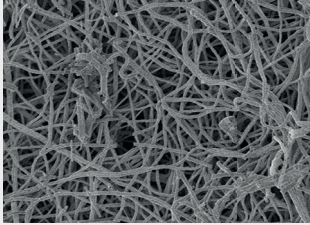


Industry

Using high-power stacks, and drawing on our robust engineering capabilities and partnerships, Elogen aims to deliver large scale electrolysis plants as of 2023.

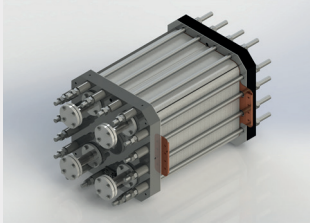
The 3 axes of Elogen's R&D

New materials



- Increase competitiveness through cost reduction and efficiency improvement and further differentiate our products
- Dec. 2021: signature of a collaboration agreement with the French University Paris Saclay renowned for its expertise in materials science for the electrolysis of water

High-power stacks



- Give access to larger projects, above 10 MW
- Target: 1 MW stack ready to be sold in 2023

Balance Of Plant (BOP) optimization



- Increase competitiveness through Capex reduction
- BOP can represent a significant part of electrolyser Capex

Reduce Capex

Improve efficiency



Our conviction

**Technology will
be the cornerstone
for the industrialization
of carbon-free hydrogen
production**

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