



HDF MULTI-MW HYDROGEN FUEL CELL

Decarbonizing electric grids and heavy mobility with zero-emission energy

Founded in 2012, HDF Energy is a leading global player in the hydrogen industry, dedicated to developing large-scale hydrogen infrastructure and advanced multi-MW fuel cell technology for energy intensive applications.



STATIONARY

Clean, autonomous and reliable electricity for grids and isolated areas. Perfect for 24/7 baseload renewable power and grid stabilization.



MARITIME

A proven, zero-emission hydrogen-powered solution to propel vessels and power their auxiliary systems. **In partnership with ABB Marine & Ports**, we deliver a fully integrated turnkey solution.

ABB



RAILWAY

A clean alternative to diesel locomotives for freight and shunting. Tailor-made to decarbonize heavy rail operations.

DIGAS

A BEST-IN-CLASS INDUSTRIAL SOLUTION

Built on proven PEM (Proton Exchange Membrane) technology, our fuel cell systems provide reliable baseload power, high efficiency and long-term durability — wherever clean energy is needed.

They are developed in close collaboration with end-users and industry leaders, integrating real operational feedback to ensure bankability and performance.

Leveraging the latest technological breakthroughs, **our fuel cells combine robustness, high performance, and long-term reliability.**

Power capacity
1 MW+

High Efficiency
50%+

Durability
25 000h+

100% regulation compliant

Scalable, modular system

Easy maintenance

Emission free (no NOx)

Mature & proven **PEM technology**



OUR SERVICES



Installation



Commissioning



Monitoring



Maintenance



Training



Spare parts recycling

OUR CENTER OF INDUSTRIAL EXCELLENCE

HDF's factory near Bordeaux (France), is dedicated to the design and manufacturing of high-power fuel cells and hosts a **unique technical testing center**. It reproduces real-life fuel cell operating conditions to guarantee full system validation before delivery to our customers.



HDF Energy's industrial fuel cell program is funded by the French State as part of the 'Hy2Move' wave of the Important Projects of Common European Interest (IPCEI) Hydrogen program.

OUR REFERENCES

Since delivering the world's first industrial MW-scale fuel cell project in 2019, **HDF Energy has built a proven track record** that drives continuous product improvement, ensuring best-in-class performance and reliability — even in complex operating environments — **supported by our expert engineering teams and worldwide local presence.**

CEOG (FRENCH GUIANA) PEMFC: 3 MW



CLEARGEN (MARTINIQUE) PEMFC: 1 MW



LET'S POWER YOUR PROJECT!

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