

We save engineering time while reducing risk

Little engineering effort, less interface pain, controlled liability.

Stargate Hydrogen is a **European** electrolyser technology company developing industrial hydrogen production systems for infrastructure and **energy resilience**.

Its **PGM-free Alkaline** electrolyzers withstand long-term operation in energy-intensive **industries transitioning away from grey hydrogen**, such as refining, ammonia, methanol, e-methane and steel.

With **IPCEI status** and backed by **committed investors** such as Repsol, Stargate Hydrogen is **trusted by clients** including Fortum, Utilitas, ABB, and Rockfin, among many others across Europe, Turkey, and India.

By prioritizing robustness, transparency, and **long-term partnership**, Stargate Hydrogen **eliminates technical uncertainty** and enables **confident deployment** from pre-FEED through commissioning and beyond.



Engineering Delivery Package

- Clear battery limits for seamless EPC integration
- Interface definition (mechanical, electrical, controls, civil)
- Project-specific design basis and operating envelope
- Performance curves and defined guarantees
- PFDs, HMBs for key operating modes
- P&IDs and operating philosophy
- Utility requirement lists
- General arrangement and layout data
- Electrical integration package: SLD, auxiliaries and rectifier requirements
- Controls integration package: I/O signals list, communication protocols
- HSE and compliance inputs: area classification,
- CE/PED/ATEX requirements, HAZOP/HAZID study
- Execution support: Schedule, FAT/SAT procedures, operating manual, spare parts & maintenance concepts

The **de-risked** approach



Bankable projects

- IPCEI Status (EU Program)
- Tier-1 Investors, such as Repsol and Skeleton
- **€52M funded to date**



Assured performance

- Based on real operating data
- Validated by third party
- **Contractable KPIs** across all variables



Reliable operations

- Remote monitoring & predictive maintenance
- **Full service** with defined response times
- Serviceable design for on-site maintenance



Shared risk

- From FEED to commissioning to after-sales
- Dedicated team during all project phases
- Full accountability for OEM scope



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10 MW Modular Electrolyser Systems

Optimised for EPCs

aurora
SERIES



The **Aurora** Electrolyser System

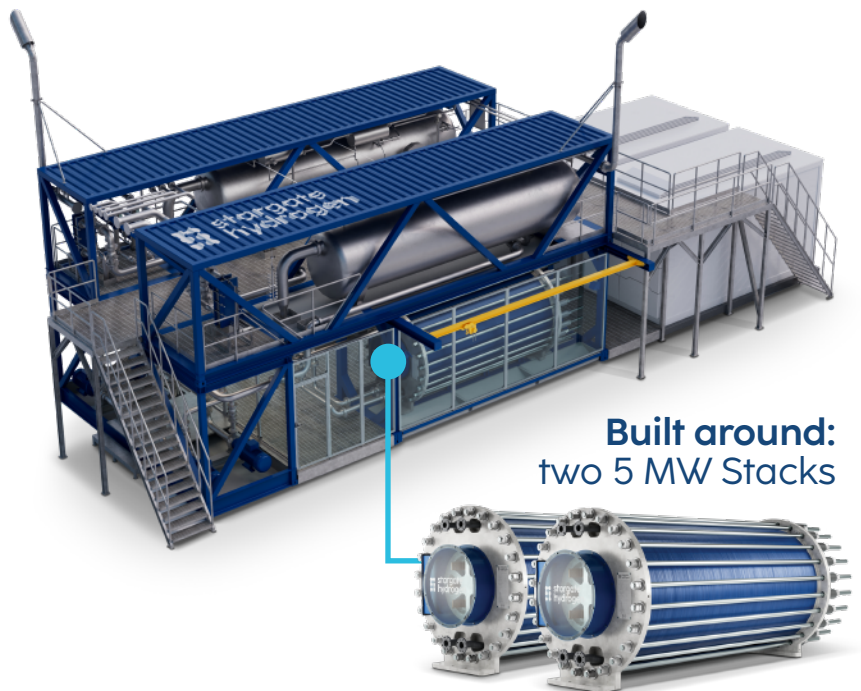
Lowest m²/MW ratio

 **10MW**

The Aurora **Electrolyser System 10MW** is Stargate Hydrogen's largest and most advanced alkaline electrolysis module **built around two Starbase 5MW stacks**, the system is engineered for fully outdoor-capability and high-efficiency hydrogen production in **industrial-scale applications**.

With its compact footprint Aurora achieves one of the **highest power density ratios**. The optimised configuration minimizes balance-of-plant complexity and **simplifies layout planning** for containerised or skid-mounted installations.

Featuring robust enclosures and thermal management solutions that allow continuous **operation from sub-zero to high-heat temperatures**, without the need for dedicated building infrastructure.



Built around:
two 5 MW Stacks



Made in
Europe



Built for
industries



Energy
resilience



Validated by
third party



Trusted
by **clients**



Optimised
for **EPCs**

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