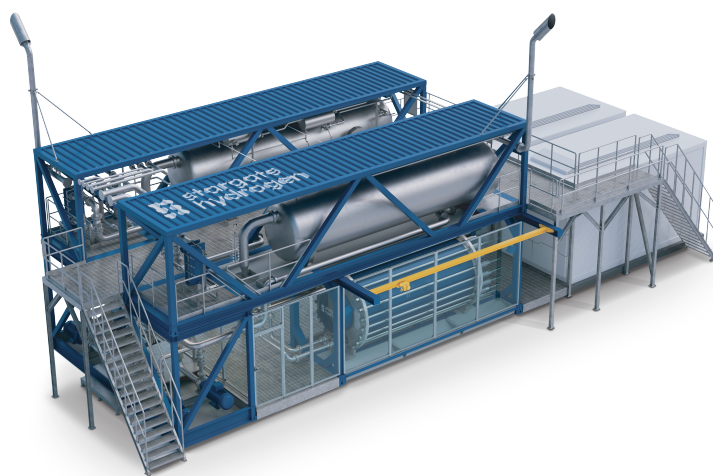


## 10MW Aurora Electrolyser Modular System is Stargate Hydrogen's biggest module.

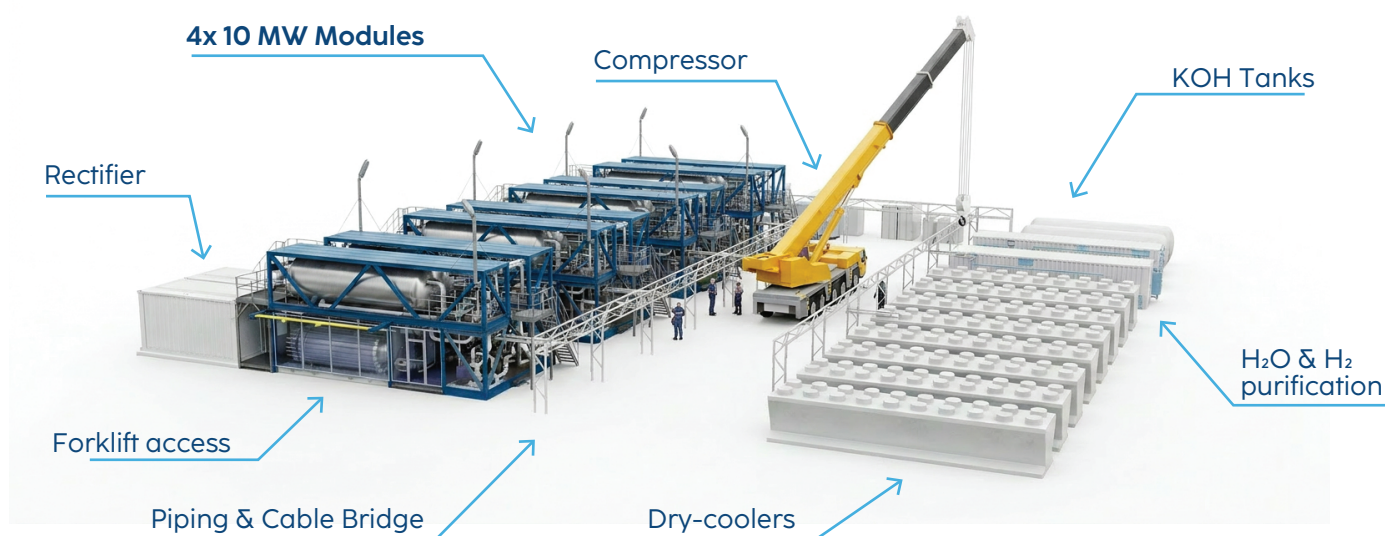
The Aurora is Stargate's Hydrogen most advanced alkaline electrolysis system, engineered with full outdoor-capability for high-efficiency hydrogen production in **industrial-scale**.

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

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



## 40 MW Electrolyser Cluster Example



Made in  
Europe



Built for  
industries



Energy  
resilience



Validated by  
third party



Trusted  
by clients



Optimised  
for EPCs

# Technical Specifications

## Single 10 MW Module

**aurora**  
S E R I E S

|                                                |                  |
|------------------------------------------------|------------------|
| Supports enhancement with STARDUST® Technology | Included         |
| Hydrogen hourly production rate [Nm³/h]        | 2000             |
| Hydrogen hourly production rate [kg/h]         | 180              |
| Energy consumption [kWh/kg] *                  | 51               |
| Rated nominal power [kW]                       | 10500            |
| Hydrogen pressure [barg]                       | 12               |
| Hydrogen purity [%] **                         | 99.8             |
| Operating range [%] ***                        | 20 to 110        |
| System footprint [m2]                          | 178              |
| System installation location                   | Outdoor / Indoor |
| Ambient temperature range [°C]                 | -30 to +35       |
| Installed Electrical Power [kVA]               | 11.5             |
| Electrolyte                                    | 30% KOH          |
| System BoS mass - Dry [t]                      | 150              |
| System lifetime [Years]                        | 20               |
| Demineralised Water consumption [L/h]          | 1800             |
| Waste heat utilisation                         | Yes              |



\* Final energy consumption depends on system configuration, site location and project specifications.

\*\* Crossover purity given that all operational conditions are maintained within their respective limits.  
The final dry hydrogen purity depends on the separation and purification systems which are part of the optional Balance of Plant (not included).

\*\*\* The system and the stack can operate at 110% for sustained time if needed.