



Next generation electrolyzers
to enable the industry of tomorrow



stargatehydrogen.com



A world where green hydrogen is a commodity

“Affordable green hydrogen is essential to reducing carbon emissions in hard-to-abate sectors such as steelmaking, fertiliser and chemical industries.

Stargate’s breakthrough ceramic catalysts will increase the efficiency of the electrolysis process. Our electrolyzers will reduce the cost of green hydrogen thanks to high efficiency at low capital cost.

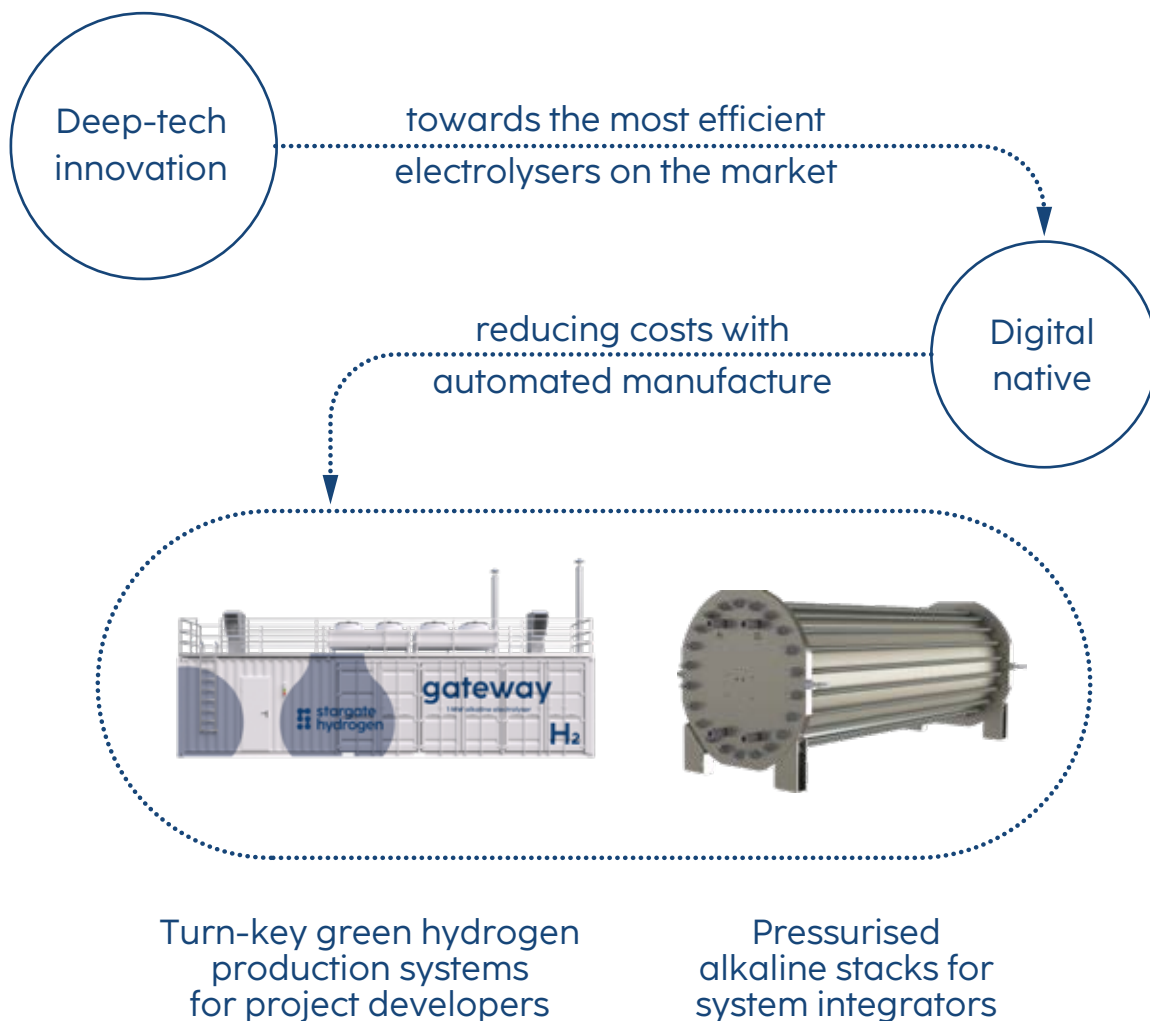
We are looking for partners on the journey of building the industry of tomorrow.”



Marko Virkebau
CEO of Stargate Hydrogen



Next generation electrolyzers



generation I — pressurised alkaline

Turn-key electrolyzers available with a 12-month lead time



Flexible
production
based on
renewable
power

Leading
warranty
on the
market

Full
maintenance
support

gateway

S E R I E S

- Containerized units for small-to-medium scale systems
- Tailored for hydrogen refueling station applications
- High-purity product ($\leq 99.999\%$ H₂)

Product	Production capacity	Installed electrical power	Operating range	Delivery pressure	System efficiency	H ₂ purity	Electrical input	Ambient temperature range	Certification
	Nm ³ /h (kg/h)	kVA	%	barg	kWh/kg	%		°C	
Gateway 200	200 (18)	1200	20-100	30	53-55 ¹	> 99.999	0.4 kV, 3-ph 50/60 Hz	-20 to +40	CE-mark ²
Gateway 400	400 (36)	2400	10-100	30	53-55 ¹	> 99.999	0.4 kV, 3-ph 50/60 Hz	-20 to +40	CE-mark ²
Gateway 800	800 (72)	4800	5-100	30	53-55 ¹	> 99.999	0.4 kV, 3-ph 50/60 Hz	-20 to +40	CE-mark ²
Gateway 1600	1600 (144)	9600	5-100	30	53-55 ¹	> 99.999	0.4 kV, 3-ph 50/60 Hz	-20 to +40	CE-mark ²
Gateway 2000	2000 (180)	12000	5-100	30	53-55 ¹	> 99.999	0.4 kV, 3-ph 50/60 Hz	-20 to +40	CE-mark ²

starbase

S E R I E S

- Skid-mounted units for large-scale systems
- Tailored for industrial applications: steel, refineries, green chemicals, etc.
- High-purity product ($\leq 99.999\%$ H₂)

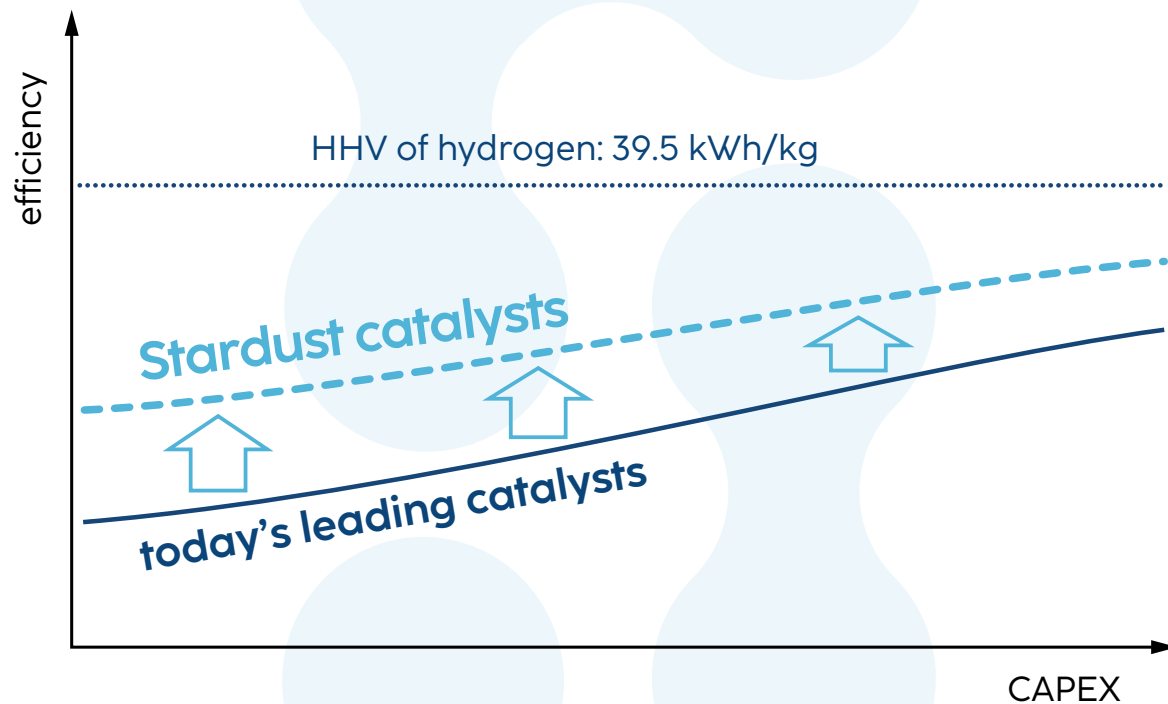
Product	Production capacity	Installed electrical power	Operating range	Delivery pressure	System efficiency	H ₂ purity	Electrical input	Ambient temperature range	Certification
	Nm ³ /h (kg/h)	MVA	%	barg	kWh/kg	%		°C	
Starbase 2000	2000 (180)	11	10-100	30	53-55 ¹	> 99.999	0.4 - 35 kV	5 to +40	CE-mark ²
Starbase 4000	4000 (360)	22	10-100	30	53-55 ¹	> 99.999	0.4 - 35 kV	5 to +40	CE-mark ²
Starbase 10 000	10000 (900)	55	10-100	30	53-55 ¹	> 99.999	0.4 - 35 kV	5 to +40	CE-mark ²
Starbase 20 000	20000 (1800)	110	10-100	30	53-55 ¹	> 99.999	0.4 - 35 kV	5 to +40	CE-mark ²

1 Depending on system load point
 2 Includes PED, LVD, ATEX, EMC, MD directives and standards

generation II — stardust

Developing breakthrough ceramic catalysts without platinum group metals

Stardust will reduce hydrogen cost by 10%



Highest efficiencies at high current densities

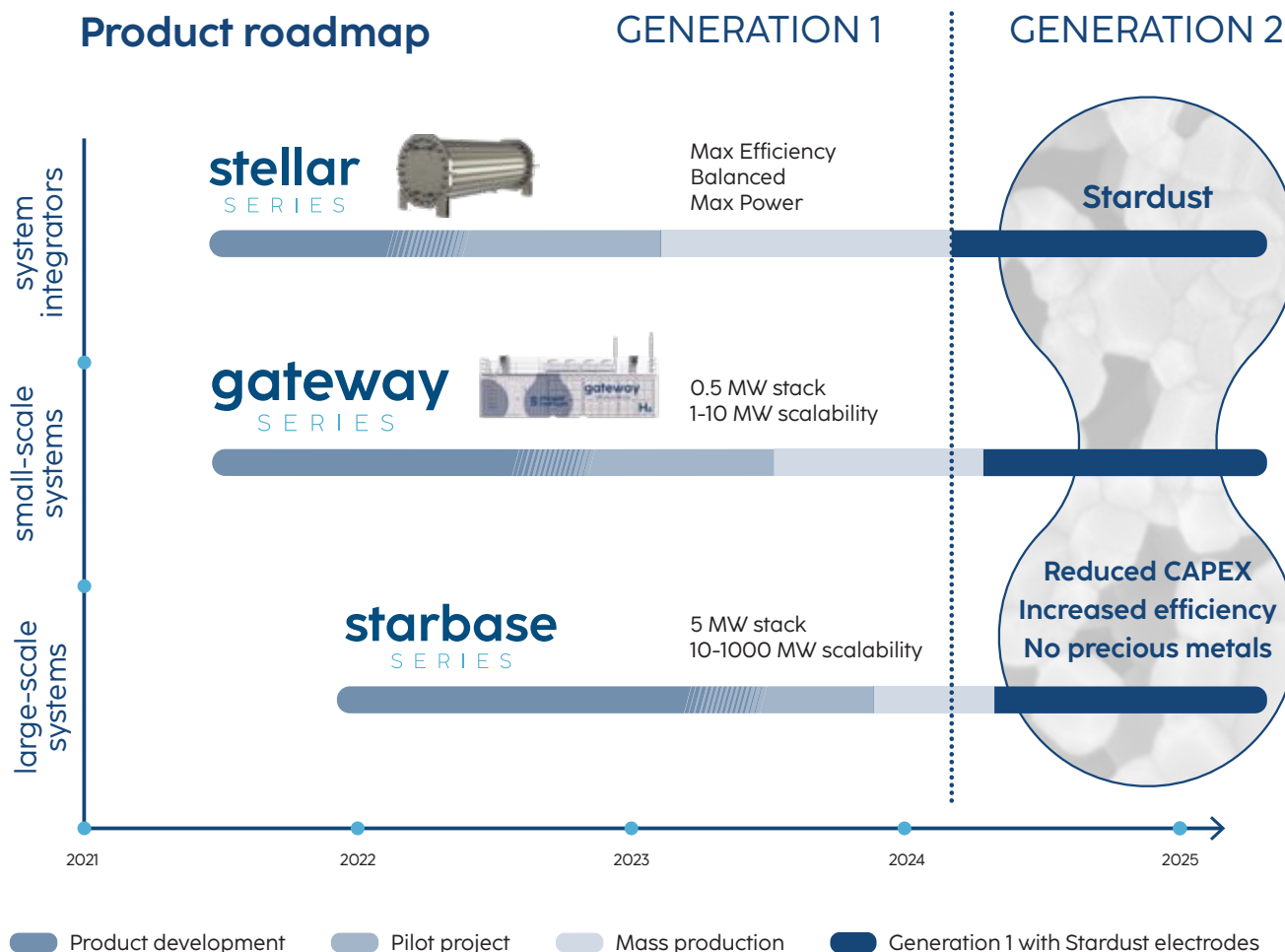
No platinum-group metals which are forecasted to be in short supply

Stargate has been awarded IPCEI status for developing electrolyzers with Stardust catalysts

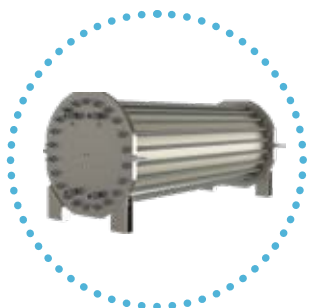


**Stargate has a patent pending
in ceramic catalysts**

our electrolyzers will come with Stardust from 2025 onwards



Stargate delivers first alkaline electrolysis stack to Rockfin in March 2023



Rockfin is a system integrator who will build green hydrogen production systems based on Stargate's pressurised alkaline stacks

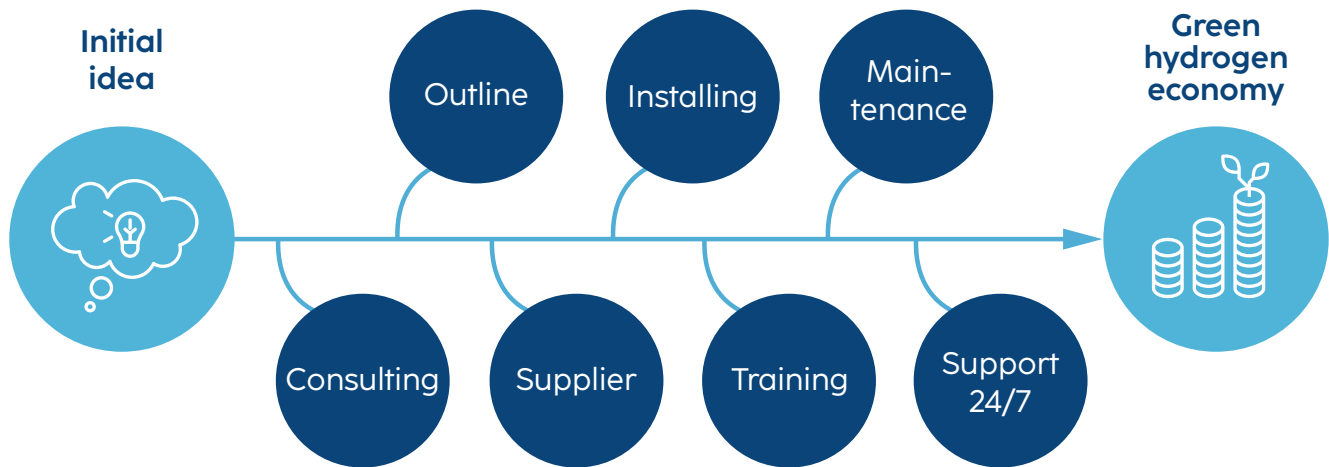
The first gateway electrolyser will operate in Tallinn in January 2024, including waste heat recovery for the district heating network.

Full value chain demonstration
of green hydrogen
production in Tallinn,
5M EUR funded by
Estonian
Environmental
Investment
Center



we stay with you

during the whole process



Plus: best warranty on the market

Digital powered preventive maintenance

Strong local support partners

we are part of the Utilitas Group

which is one of the largest renewable energy developers in the Baltic Sea region



Stargate is backed by investors
who believe in its technology and people

stargate hydrogen ●● to enable the industry of tomorrow

here you can find us today



Headquarters:
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11415 Tallinn
Estonia

Assembly:
Allika tee 1, Peetri
75312 Harju maakond
Estonia





here you will find us in 2025

The Stargate
Gigafactory in
Estonia will make
first deliveries
in 2025

Automated
production
for reducing
unit cost

54M EUR
funding
confirmed



contact us

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