Insights into **new product development** for **large-scale applications**

by Green Hydrogen Systems

GREEN HYDROGEN SYSTEMS

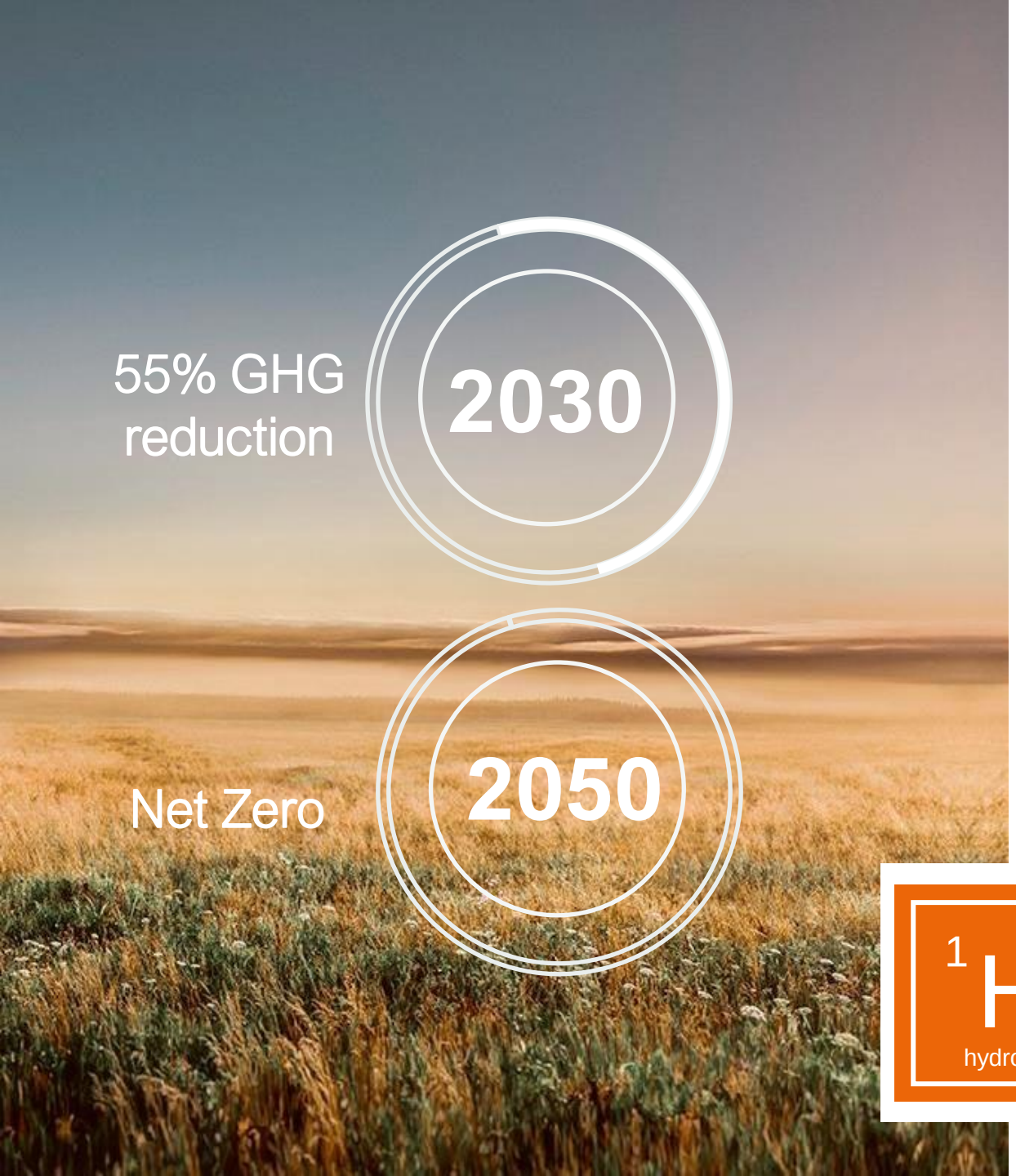
About
Green Hydrogen Systems

Leading provider of pressurised alkaline electrolysers

Our technology enables onsite production of green hydrogen and an energy supply system solely based on renewable energy

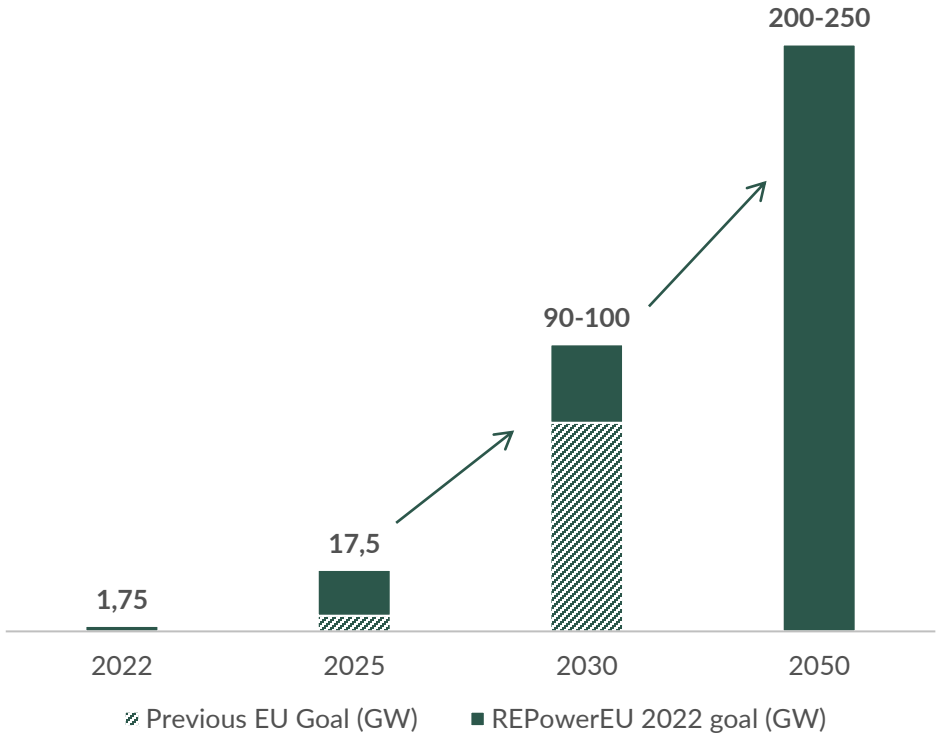
We are committed to help customers decarbonise their operations and decrease dependence on fossil-fuels

GREEN
HYDROGEN
SYSTEMS



1 H hydrogen

Required electrolysis capacity has increased drastically




Capacity expansion
from 75 MW to 400 MW
Located in Denmark
+ 200 employees
Founded in 2007
Nasdaq Copenhagen
Potential to scale to
+1,000 MW Capacity

Current

HyProvide® A - Series

For projects
up to **6 MW**

Upcoming

HyProvide® X - Series

For projects
above **6 MW**
and beyond
100 MW

Current
HyProvide® A - Series

Example of an A-Series site configuration of 3 MW

300 m² **H_2 1152 kg/24h**

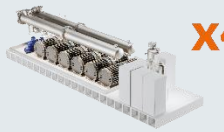
6x

For projects up to **6 MW**

Upcoming
HyProvide® X - Series

Example of an X-Series site configuration of 24 MW

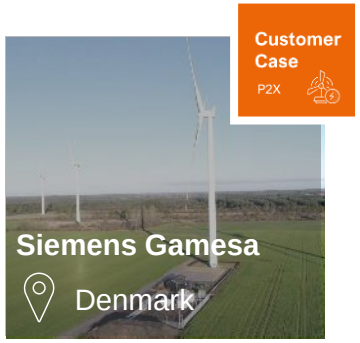
1080 m² **H_2 10 320kg/24h**

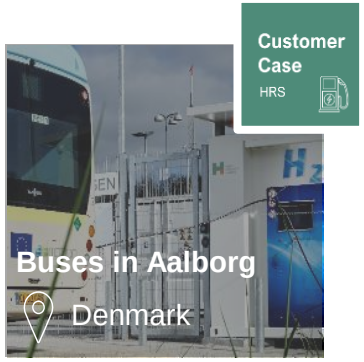


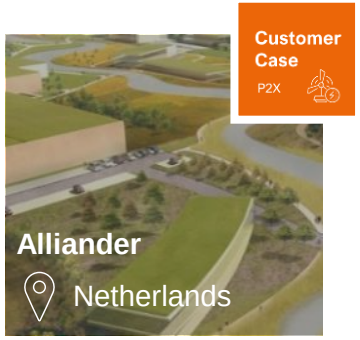
x4

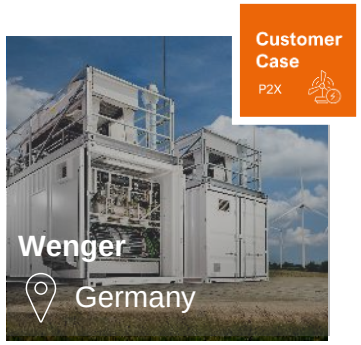
For projects above **6 MW** and beyond **100 MW**

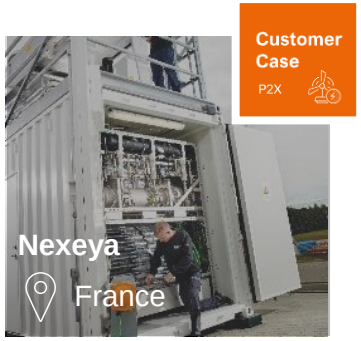
Selected projects
in Europe

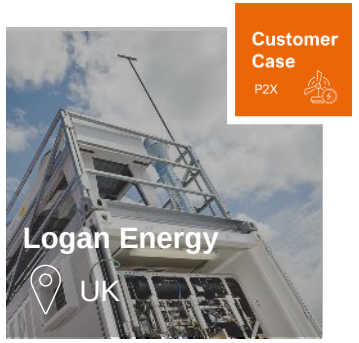


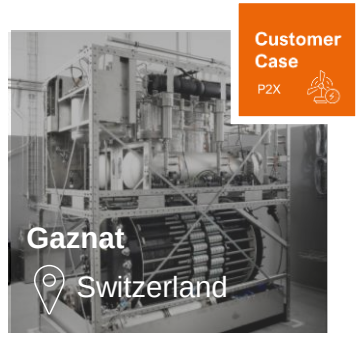






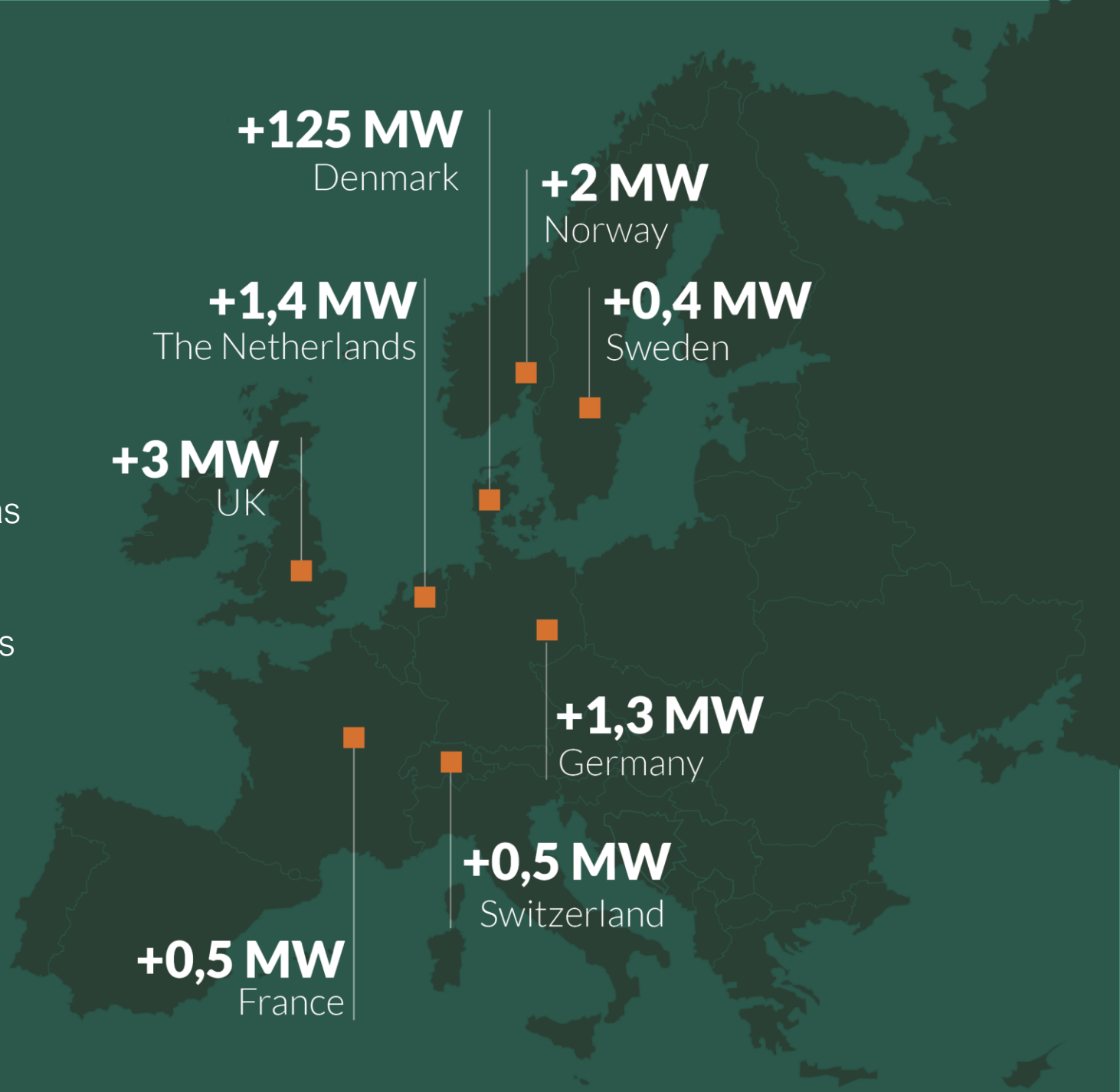






Selected projects
in Europe

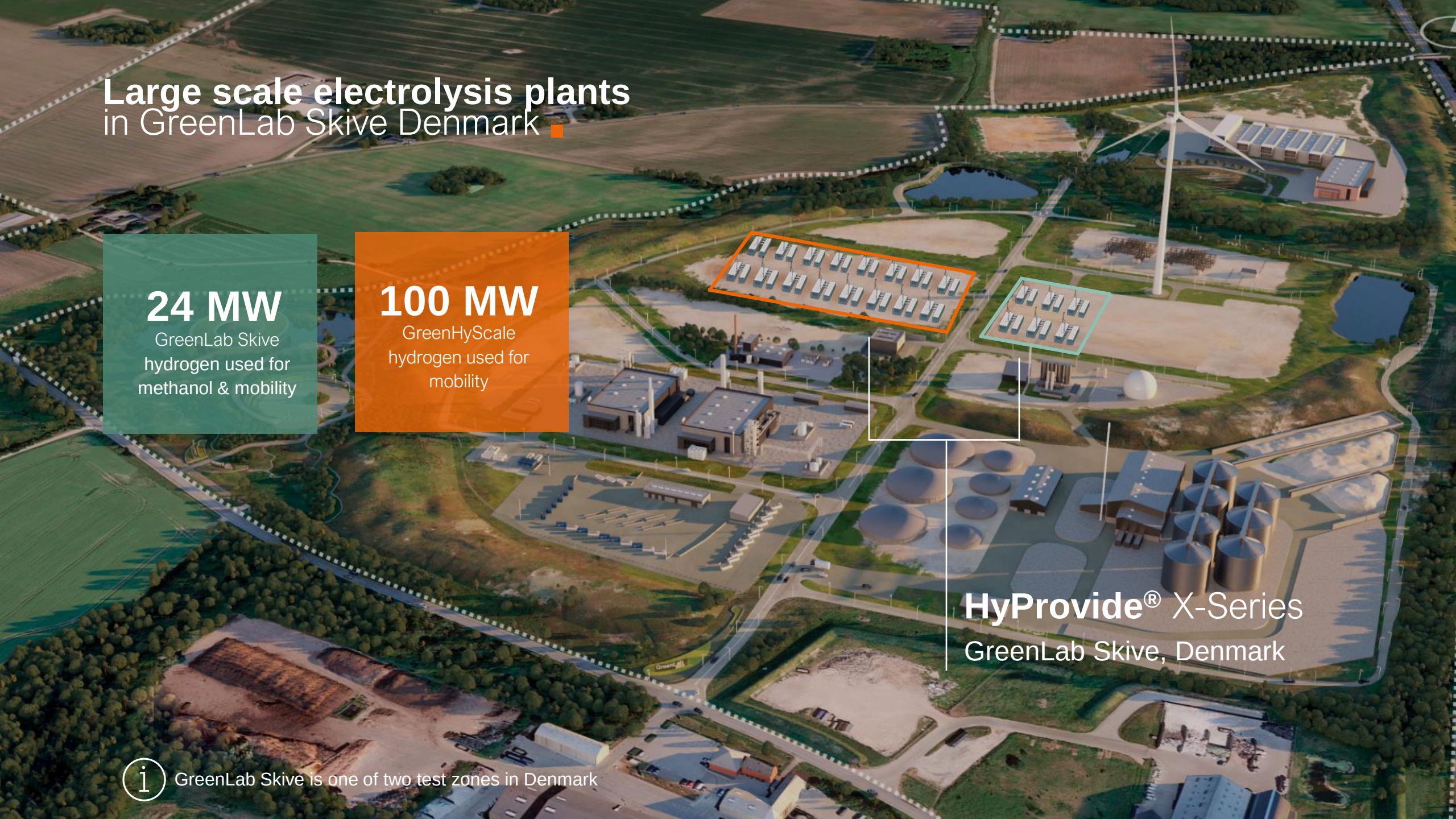
Green Hydrogen Systems has been selected as electrolysis system provider in several projects involving well-reputed energy industry players, such as Ørsted and Siemens Gamesa, and has a strong pipeline with increasing magnitude of variety and scale.



Large scale electrolysis plants
in GreenLab Skive Denmark

24 MW
GreenLab Skive
hydrogen used for
methanol & mobility

100 MW
GreenHyScale
hydrogen used for
mobility



HyProvide® X-Series
GreenLab Skive, Denmark

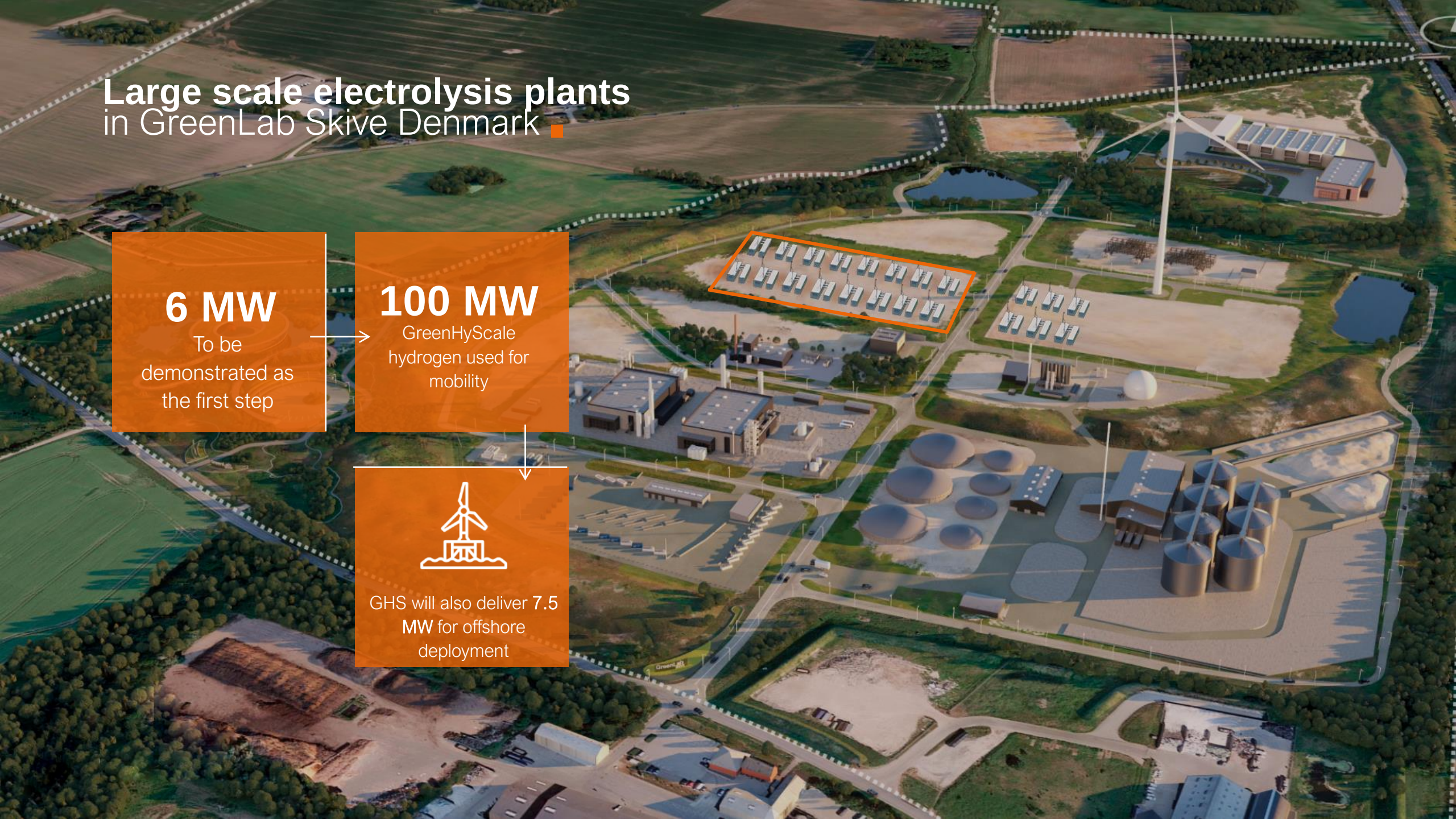
GreenLab Skive is one of two test zones in Denmark

Large scale electrolysis plants
in GreenLab Skive Denmark

6 MW
To be demonstrated as the first step

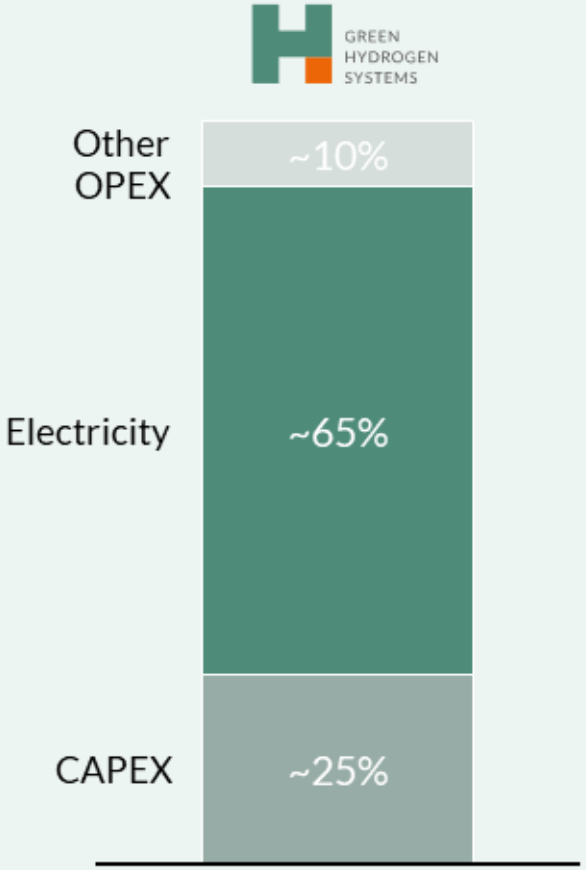
100 MW
GreenHyScale hydrogen used for mobility

GHS will also deliver **7.5 MW** for offshore deployment



Significant lowering of the LCOH is key

GHS' LCOH breakdown



GHS has influence over majority of LCOH factors

Levelised cost of hydrogen

CAPEX

- Electrolyser
- Container
- Stack replacement
- Installation and delivery
- Site preparation
- Cost of capital

Electricity

- System energy conversion efficiency
- Yearly hydrogen production
- Energy costs

Other OPEX

- Operations and maintenance
- Cost for consumables (water & nitrogen)

Operations

- Operational up-time

Factors under GHS' influence


Accelerating the energy
transition with **green hydrogen**
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