



 **H2sea®**
Pioneering Offshore
Green Hydrogen

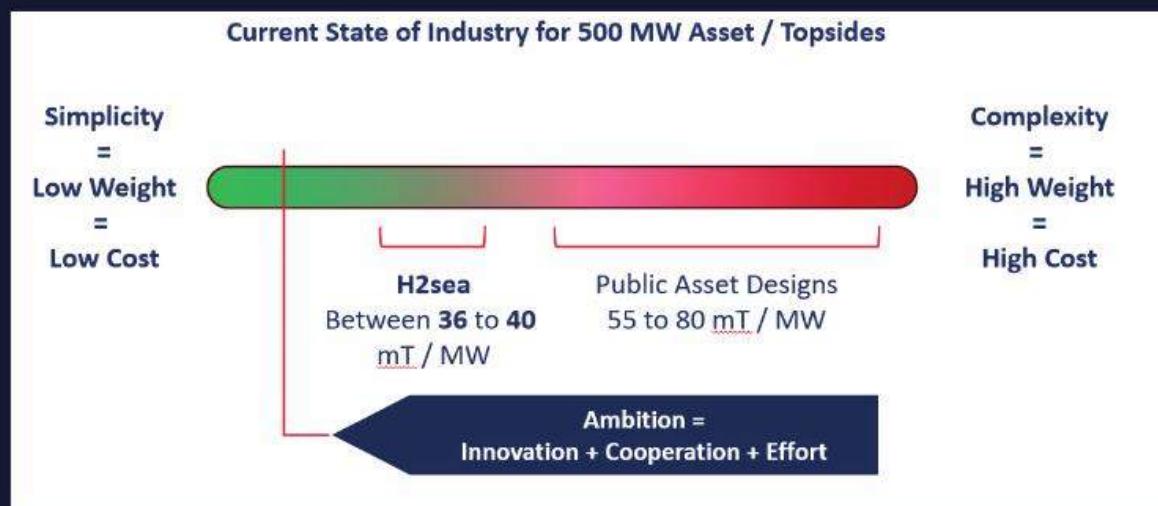
Offshore Wind needs Offshore Hydrogen

Integration with simplicity in mind

H2sea is a trailblazer in offshore green hydrogen, serving as a true integrator in the energy transition.

We don't merely convert wind power into megawatts; we engineer the full hydrogen value chain; from offshore wind generation, through modular hydrogen production, to seamless, safe and efficient transport of hydrogen molecules to shore.

Hydrogen Integration is currently restricted by complexity, which translates to cost



Hydrogen is essential to make offshore wind a success:

- Balancing the electric grid
- Transporting molecules efficiently
- Providing energy storage and flexibility
- Serving as a building block for e-fuels



Our mission is to bring back complexity – embracing the intricate balance of offshore energy conversion with a design-first engineering mindset that simplifies operation and maximises cost-efficiency.

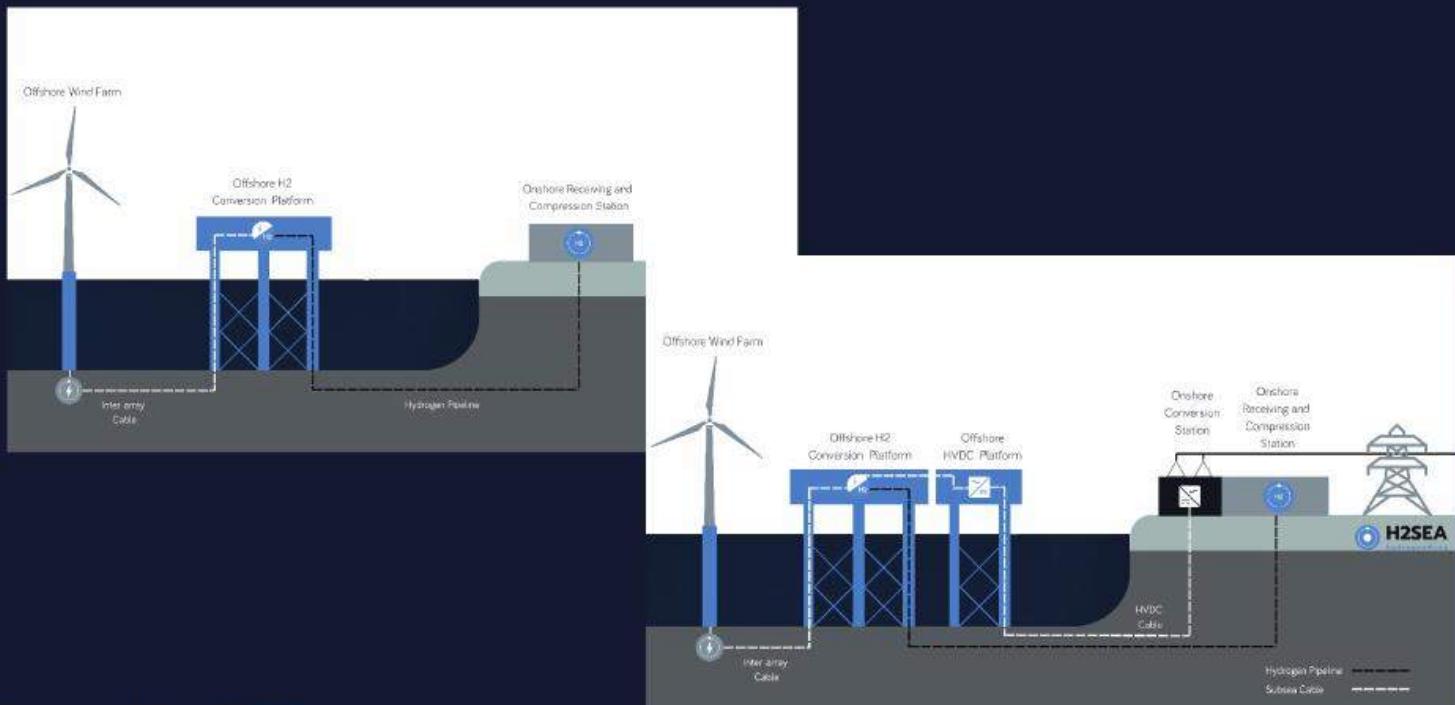
We develop our own innovative IP to drive down the cost of offshore hydrogen while ensuring safety, reliability, and scalability.

Capabilities & Services

At H2sea, the complete trajectory from conceptual design to planning and engineering is carried out in-house by our experienced offshore hydrogen specialists.

We are supported by strong partners, including our sister company Enersea, bringing decades of offshore wind expertise from foundations and substations to floating wind, pipelines, cables, and unmanned facilities.

For procurement, fabrication, and installation, we work with trusted industry partners and remain open for new co-operation, ensuring flexibility and the best fit for each project – worldwide and with the most economical solution in mind.



Innovation & IP

Hydrogen integration today is often held back by complexity, weight, and cost. Public reference designs for 500 MW assets arrive at 55–80 mT/MW topsides. H2sea innovations reduce this to 36–40 mT/MW – a breakthrough in offshore hydrogen platform design.

- Our approach focuses on:
- Standardisation for cost-effectiveness
- IP-driven innovations to reduce equipment size and platform weight
- Onshore testing of assemblies to reduce delivery risks
- Integration and safety under one roof

This philosophy lowers the Levelised Cost of Hydrogen (LCOH) and ensures reliable, scalable offshore hydrogen production.

Why choose H2sea?

- Integrator mindset – Uniting offshore wind, hydrogen production, and transport into one streamlined solution.
- In-house expertise – From conceptual design to engineering, backed by strong partners for construction and delivery.
- Innovation that matters – Proven IP to reduce cost, complexity, and risk.
- Worldwide flexibility – Leveraging trusted partners close to home and local cooperation abroad for the most economical solution.
- Proven experience – Track record in flagship offshore hydrogen projects and ground-breaking research.

Success starts with the right design concept.

Let's shape the future of offshore green hydrogen together.



Contact new projects

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