Haventus

Steel Floating Substructures – A port perspective

18th September 2024

Ardersier Port

Delivering a World Leading Energy Transition Facility

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Ardersier Port: a proud energy past

The Port was first established as an important energy deployment location in the 1970s, when US engineering company, McDermott, built a fabrication yard onsite.

UKCS

The site engineered and built hundreds of the jackets and platforms that underpinned the growth of the UK North Sea oil and gas industry.

4,500

At one point, the site was the largest private employer in the Highlands, providing work for more than 4,500 people.

2001

It closed in 2001 and is now being redeveloped by Haventus to continue to serve the energy industry as we move into a lower carbon era.

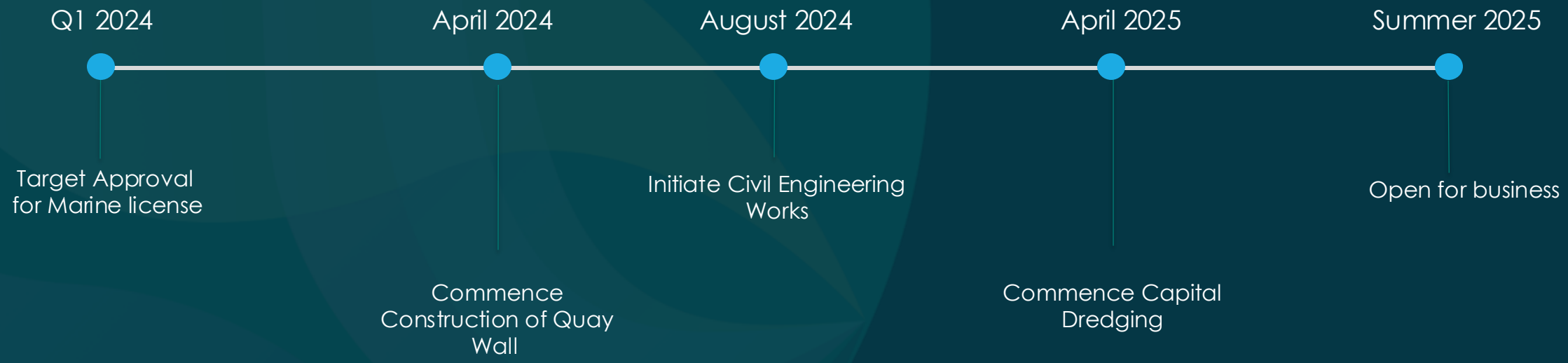
Perfectly located

The site at Ardersier Port will provide Scotland's largest facility on the North Sea coast for deploying and servicing offshore wind installations.

Bringing leading capability to **offshore wind deployment**

- 1.4 million m^2 site
- Initial 659m quay side in 2025 with further 1km based on customer requirements
- Inc 80 Ro/Ro capable berth
- 12,4m CD draught
- 150t removable bollards
- 25t/m2 quayside bearing capacity

Targeting Opening in Summer 2025



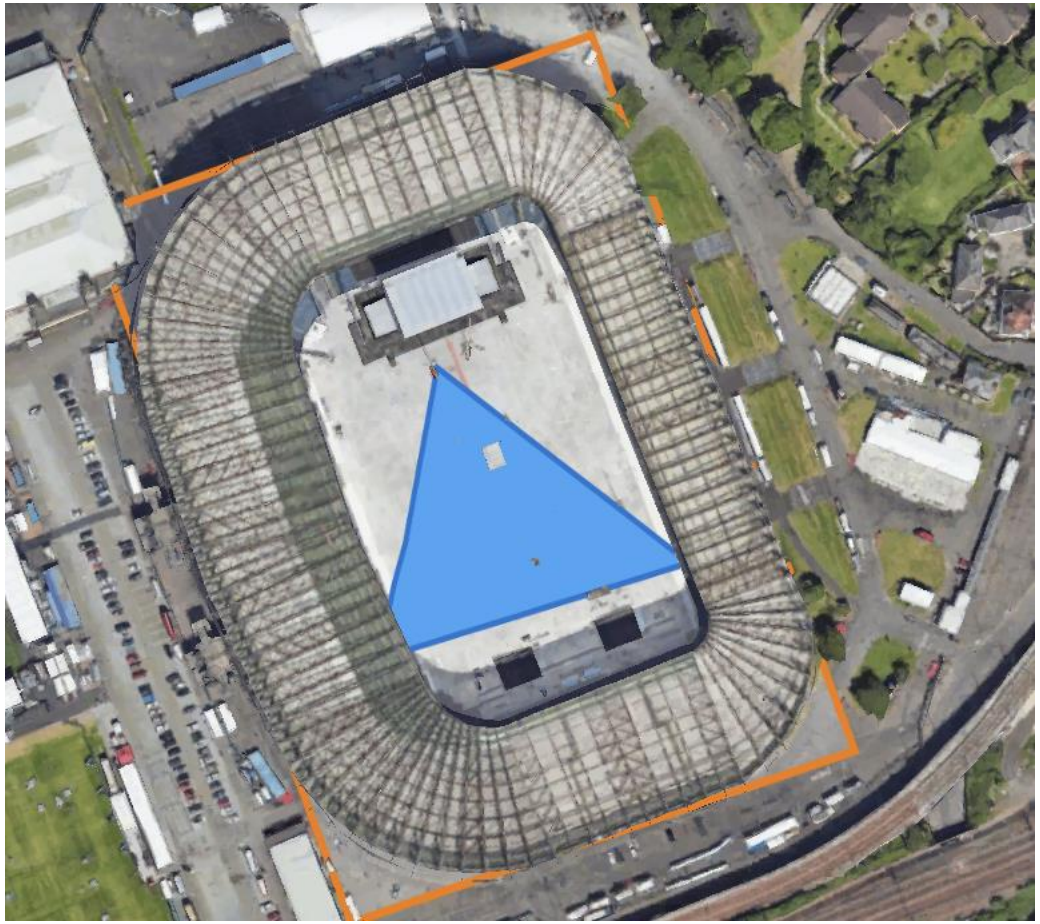
Steel Substructures – Common Port Themes

Common Port Themes

1. **Space –** security & flexibility (area, duration and timing)
2. **Quayside –** preferred/dedicated trade-offs on utilisation/optimisation
3. **Lifting and Shifting –** assembly of substructure plus launch and float off strategies
4. **Local Content –** assembly, secondary steel fabrication and skilled Labour
5. **Seasonal Storage –** alignment of substructure assembly lines with summer installation window

Floating Steel Substructures – Storage

- Murrayfield stadium footprint equivalent to 4 floating bases (10,000m2 each excluding mooring systems)
  - Ardersier Port 1.4 million m^2 s equivalent to 35 Murrayfield Stadiums
- 500MW pa deployment requires ~24-30 bases per year
- Integration and installation of turbines constrained by weather to Apr-Sept in North Sea
- Bases assembled 24hrs all year round for maximum efficiency
- Storage solution for at least 50% of units required.
- Onsite dry storage for substructures assembled at Ardersier provides attractive solution
  - 500 MW requires 4 Murrayfield stadiums (160,000m^2)



1

Space/ capability to deliver projects on schedule 2028-2030 a challenge

2

Commitment to a port earlier in the development cycle enables investor confidence to commit to port infrastructure and supply-chain services

3

Project-by-project procurement processes are too linear, fragmented and late. Need an industry portfolio approach to enable industrialization

4

Optimise and standardise designs of floating substructures **within constraints of "reasonable" enabling supply-chain infrastructure investments**

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Thanks for your time.

Contact us

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