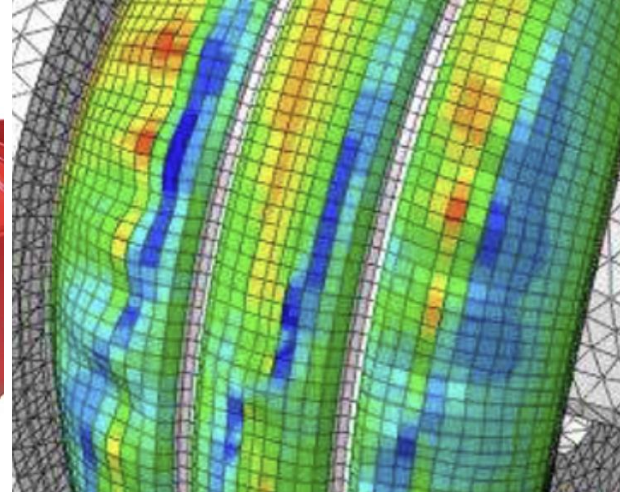




Q-Connect quick connection & disconnection system

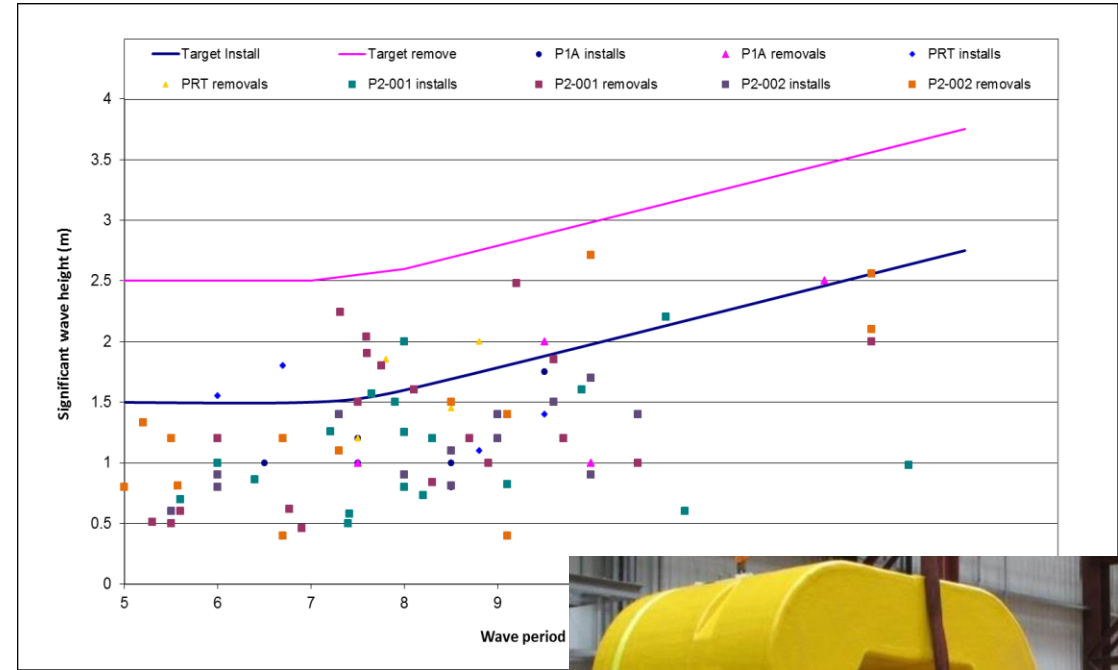
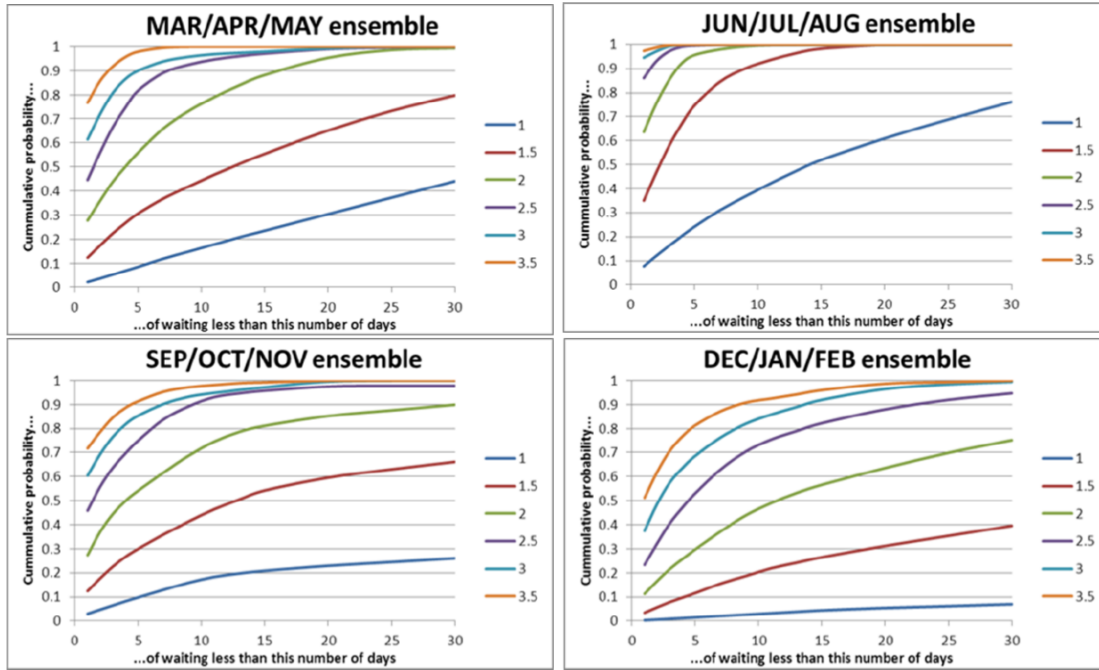
*Richard Yemm
Quoceant Ltd*

Quoceant – offshore renewable engineers



- Core technical team from Pelamis Wave Power
- Multidisciplinary – fundamental modelling, design, build, through to offshore operations, and economics
- “Practitioners” perspective – “whole-system” approach – genuine shortcuts for industry
- Broad range of clients and projects over last 6 years
- Advancing a number of core enabling technologies from the Pelamis programme:
 - Advanced hydraulic power take-off systems
 - Fatigue optimised structural design
 - Quick connection/disconnection systems
- Contact us to discuss how we can help: richard.yemm@quoceant.com

Quoceant – quick connection system benefits



- Facilitates safe execution of big jobs, with modest vessels, year-round, in tough conditions
- Risk control on prototype programmes – “ocean as a wave tank”
- Reduces operational costs – additional Capex << ongoing Opex
- Enables off-site maintenance strategy for commercial projects



Quoceant – quick connection system experience



- Original Pelamis 'TLA' system
- 6 systems built & installed
- Install <1hr, remove <15mins
- >50 cycles in up to 2.5m H_s
- [See WES Knowledge library](#)



Picture: AHH/Meygen

- Andritz system for Meygen
- Rapid solution, no wet mates

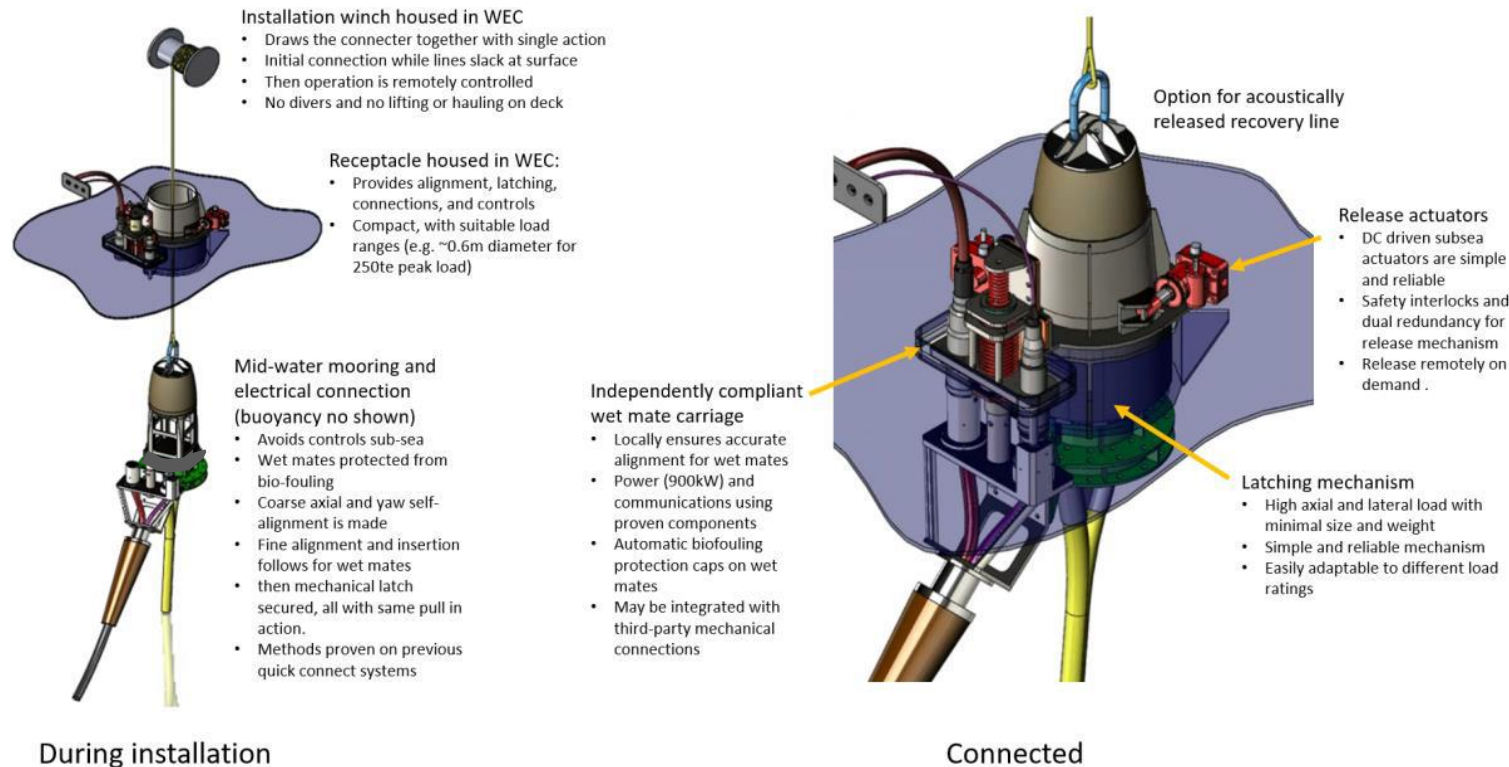


Picture: Minesto

- Minesto DG100 system
- In partnership with Inyanga
- Design, build, install

Plus a large number of feasibility/FEED studies

Q-Connect – new generic solution



- Combined mooring-electrical system
- Operability limits >2m Hs, *“limited by the vessel not the Q-Connect system”*
- Modular – applicable to widest range of moorings/ umbilical/MEC types
- Pull-up, pull-down & pull-through configurations
- Self-latching, command-release – no divers/ROVs
- Wet-mates mechanically isolated – critical
- Mooring loads – range of load ratings up to 600tonnes
- Standardised wet mate connectors 6.6kV/1.25MVA, auxilliary power, fibre comms etc
- Pre-qualified components – minimum application specific work
- Objective – *pays for itself in <2 operations*

- Wave Energy Scotland funded project, Stages 1 & 2 completed
- FEED work complete, example WEC cases considered, costing, operations etc
- [Currently working on proposal for Stage 3 of work to build and qualify system](#)
- [In parallel, seeking first users for integration/deployment 2023/24](#)



Q-Connect quick connection & disconnection system

THANK YOU

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