



EUROPEWAVE

Introduction Phase Two

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This project has received funding from the European Union's Horizon 2020 research and Innovation programme under grant agreement 883751.



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AMOG WEC

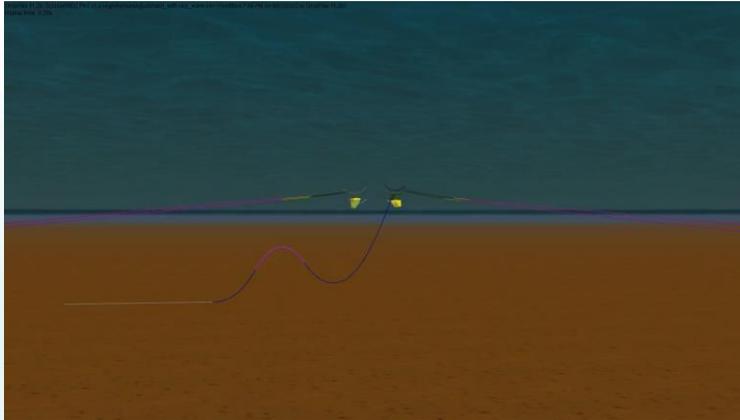


- Broad banded device response
- Twin PTOs
 - Direct drive, high TRL components
 - Enclosed, above the sea-surface
- Full maintainable offshore
 - PTO change out on-location
- Installation and hookup by a single vessel
- Utility Grid Scale Wave Energy

Why EuropeWave?

- Sophisticated, well constructed project structure.
- Clear recognition of the need to;
 - Support candidates to commercial scale trial
 - Define a framework for progression and evaluation at each stage
- Recognise the need to generate publicity and wider interest in the development of technology

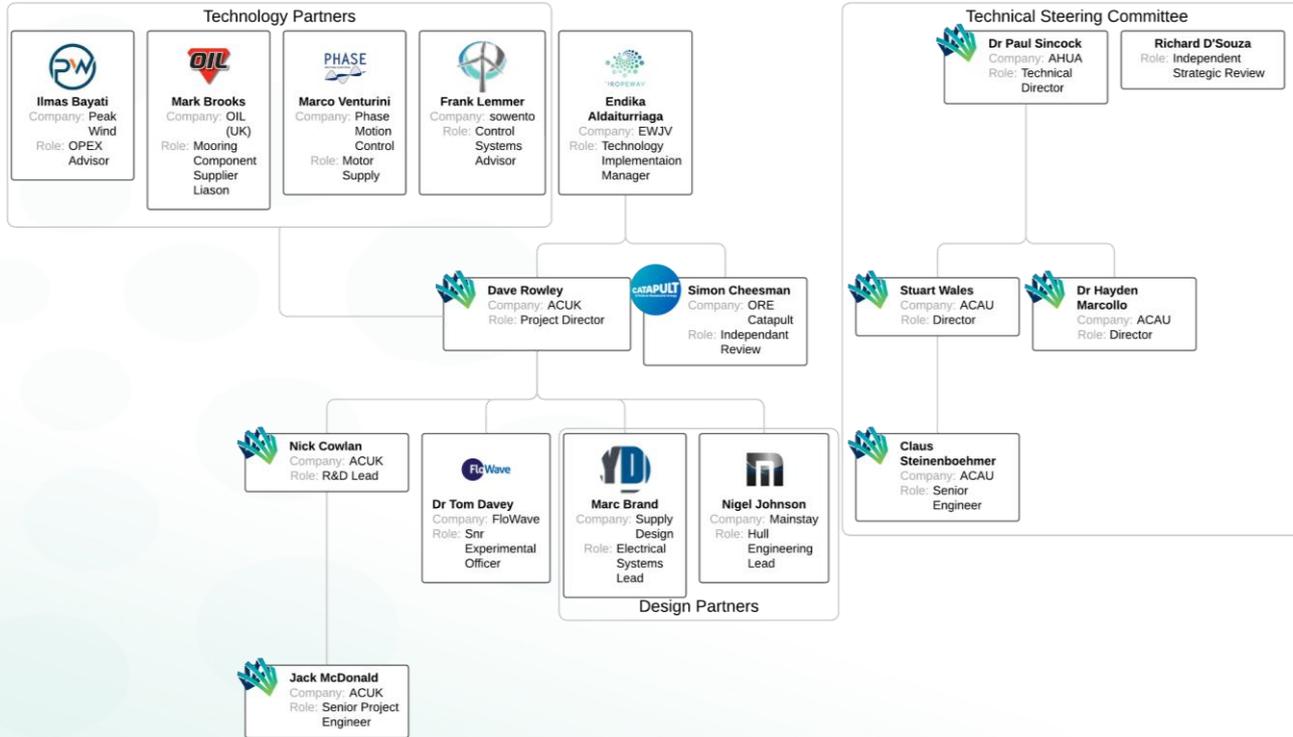
Phase One Achievements



Phase One saw;

- Development of key WEC substructures and control systems
 - Detailed design risk assessment
 - Fatigue and Limit state response
 - Mooring and riser design
- Model test campaign
 - Challenge of model PTOs
- Installation and hook up methodology
- Phase Three CAPEX assessment

Phase Two: Project Team



Phase Two: Project Aims



Phase Two will target

- Design Risk
 - Constructability
 - ULS, ALS and Fatigue
 - PTO and control system integration
 - Survivability and advance control tank testing
- Project Risk
 - Phase Three CAPEX and OPEX
 - Installability and maintainability
- Commercial Risk
 - Building supplier relationships

Phase Three Deployment



Phase Three will see:

- Year long deployment of a 1.25Mw demonstrator
- Trial of a fully active control system with model predictive control
- Gathering validation data on;
 - Hydrodynamic response
 - Fatigue loading
 - PTO endurance
 - Export cable response
- Demonstration of a compelling case for utility scale wave energy



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