

EuropeWave Introduction



VIII Marine Energy Conference
Bilbao - 22 June 2022



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

 www.europewave.eu

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EUROPEWAVE

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Bridging the gap to commercialisation of wave energy technology using pre-commercial procurement

Duration: 65 months (01/01/2021 to 31/05/2026)

PCP Budget: €19,600,000

Total Budget: €22,702,112

Programme: H2020-EU.3.3.2.
[Low-cost, low-carbon energy supply]

Topic: LC-SC3-JA-3-2019
[European Pre-Commercial Procurement Programme for Wave Energy Research & Development]



ENERGIAREN
EUSKAL ERAKUNDEA
ENTE VASCO
DE LA ENERGÍA



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Wave Energy
Scotland (WES)

Ocean Energy
Europe (OEE)

Ente Vasco
de la Energía (EVE)

Buyers Group

Consortium
Partner

Overarching Challenge [LC-SC3-JA-3-2019]

The design, development,
and demonstration of cost-effective
wave energy converter systems for
electrical power production that can
survive in the harsh and unpredictable
ocean environment



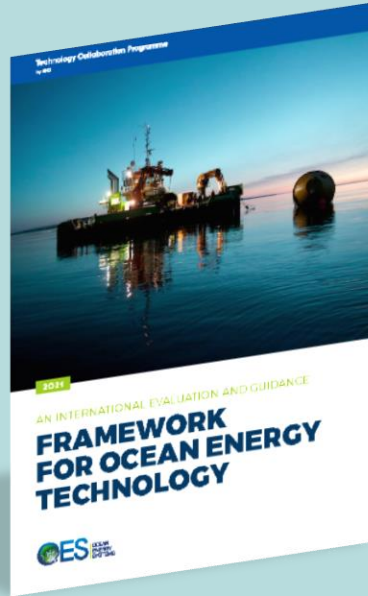


EuropeWave PCP Challenge

To advance promising wave energy converter systems to a point from which they can be developed to commercial exploitation through other national/regional programmes and/or private sector investment.

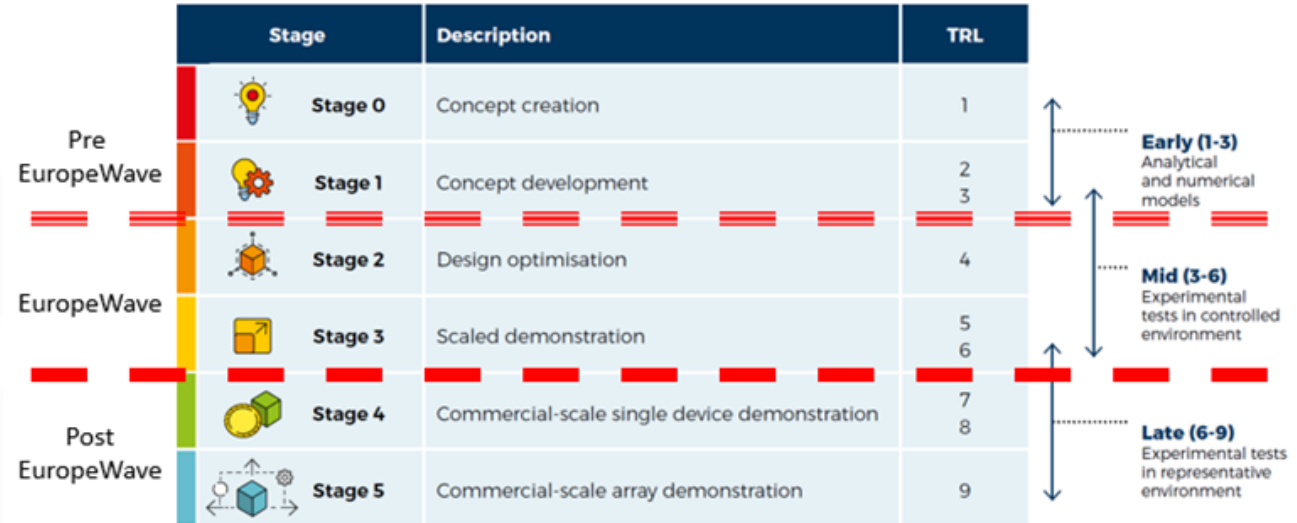
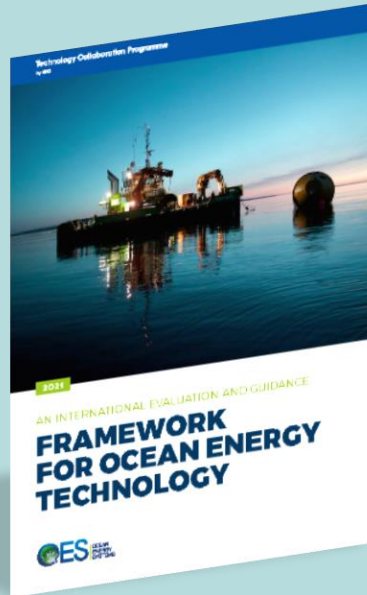


IEA Framework

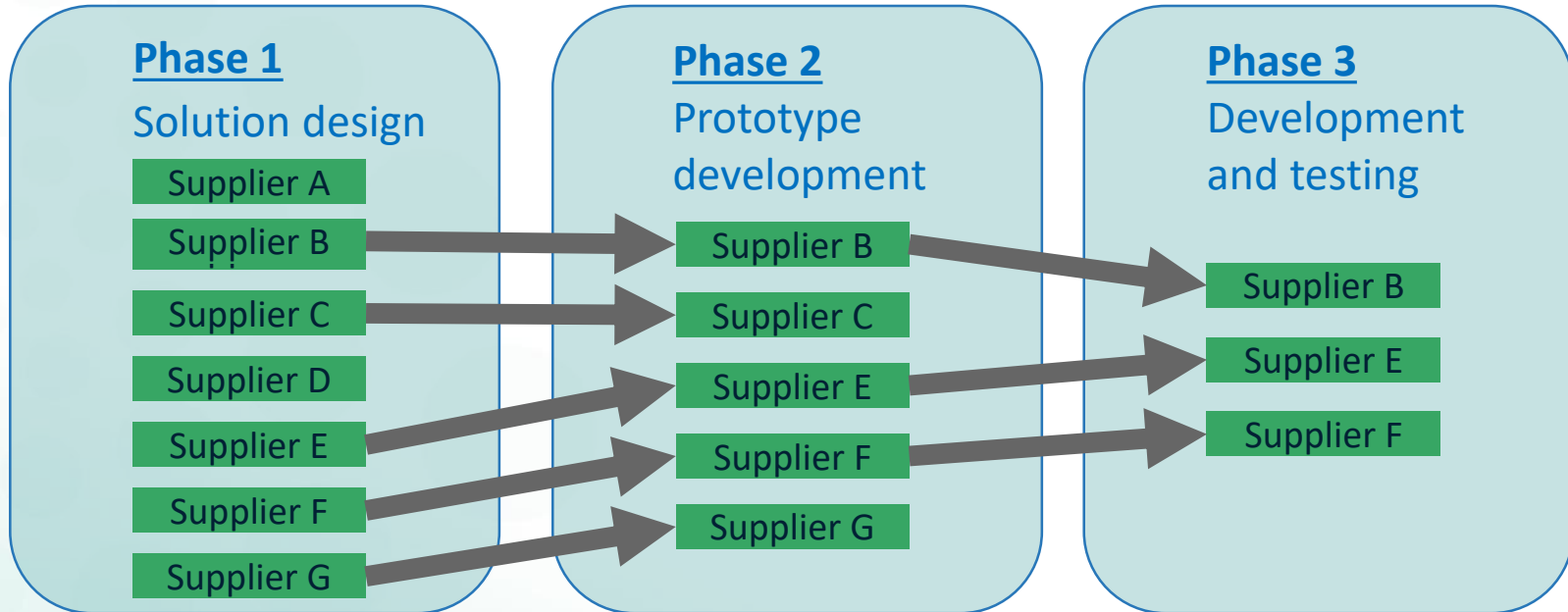


IEA Framework

A framework for technology evaluation and guidance of engineering activity throughout the technology development process



R&D Pre-commercial procurement



Ref: European Commission: H2020 Programme Guidance - PCP procurement documents



EuropeWave PCP: Objectives

Phase 1 Concept Development

- Optimise the concept engineering design for the EuropeWave requirements
- Benchmark performance
- Estimate the Phase 3 power performance capability
- Evidence that the WEC system is on track to provide an attractive commercial offering

Phase 2 Design / modelling

- Complete FEED of the Phase 3 prototype
- Pass Critical Design Review (CDR) to begin meaningful engagement with fabrication providers
- Improve fidelity of simulation and financial modelling
- Develop and evidence appropriate planning for Phase 3 deployment
- Completion of Stage 2 of the IEA Framework

Phase 3 Open-sea deployment & testing programme

- Validate power capture and conversion capability through operational data recorded during sustained periods of operation in the energy producing sea-states
- Demonstrate the effectiveness of survival strategies
- Demonstrate achievable levels of availability
- Completion of Stage 3 of the IEA Framework



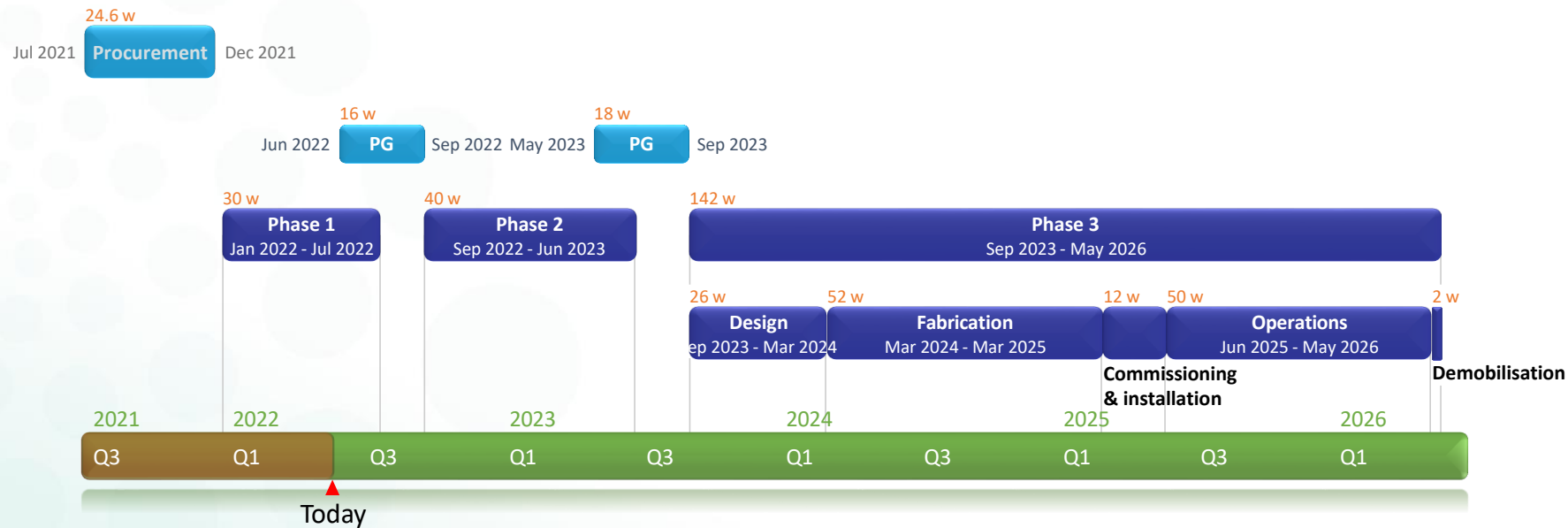
EuropeWave PCP: Phase 3 deployment locations

EMEC
THE EUROPEAN MARINE ENERGY CENTRE LTD

BiMEP Biscay Marine
Energy Platform



EuropeWave PCP: Timeline



Phase 1 Contractors

Lead Contractors

AMOG Consulting

Arrecife Energy Systems *

Bombora Wave Power Europe *

CETO Wave Energy Ireland *

IDOM Consulting, Engineering, Architecture

Mocean Energy

Waveram *

UK (England)

Spain

UK (Wales)

Ireland

Spain

UK (Scotland)

Ireland



* consortium project



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