



ETIP Ocean

Spanish national & regional funding



Content

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3. Financial Support



Strategies

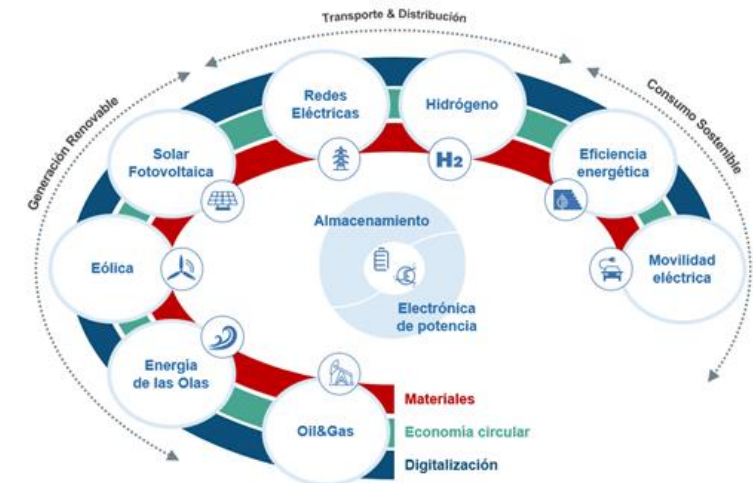
Basque Energy Strategy 2030



MRE Objectives

INSTALLED CAPACITY		2015	2020	2025	2030
Hydro	MW	173	175	177	183
Wind	MW	153	167	463	783
Photovoltaic	MW	25	55	108	293
Solar thermal	Thousand sq. m.	64	90	137	202
Biomass	MW	71	69	106	111
Marine Energy	MW	0	10	20	60
Geoxchange	MWg	13	41	96	253
Geothermal energy	MW	0	0	4	10

Technology and Industrial Development Strategy



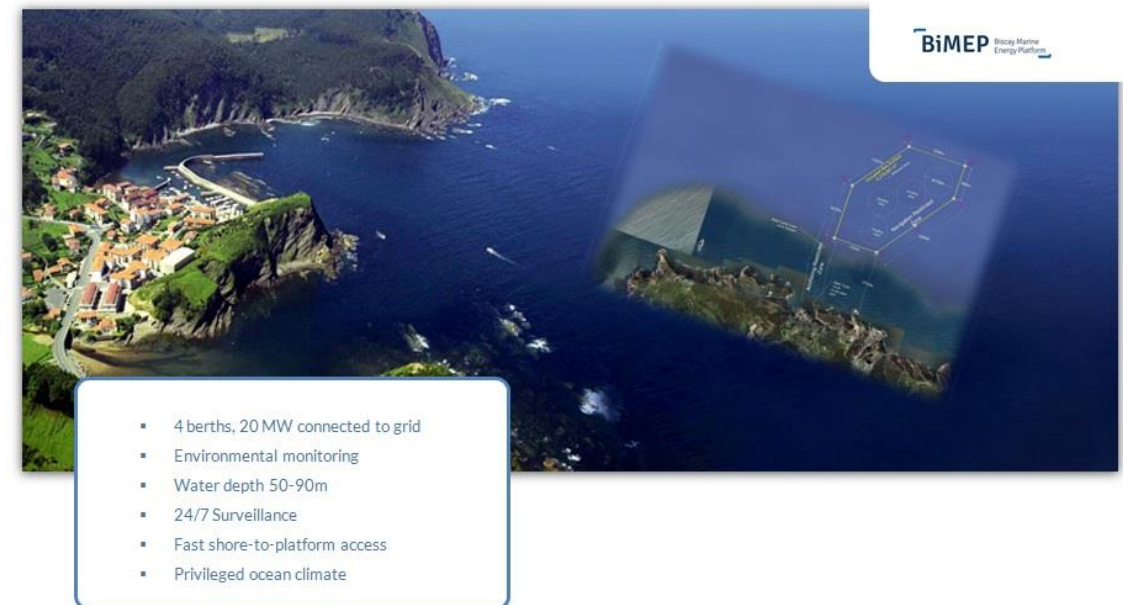
BiMEP Offshore Infrastructures

<https://www.bimep.com/en/>

Mutriku Wave Power Plant

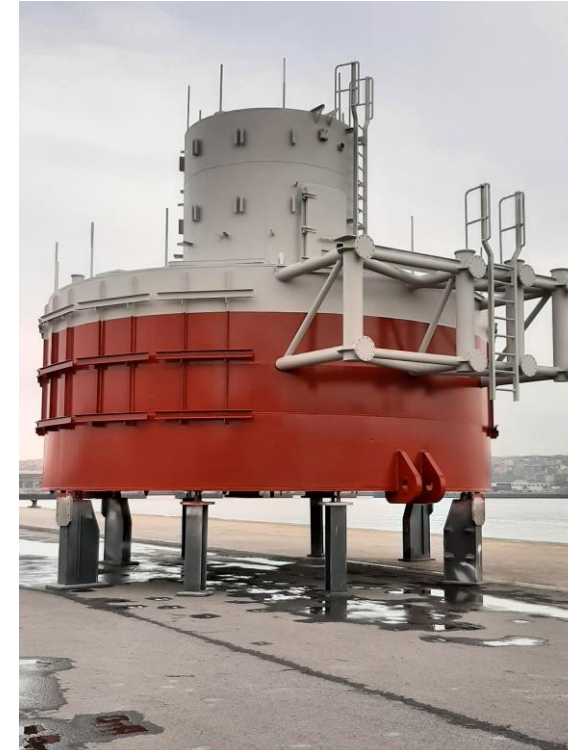


Armintza





HARSHLAB



Financial support

<https://www.eve.eus/Programa-de-ayudas/2020.aspx>



Grant programme for investment in the demonstration and validation of emerging marine renewable energy technologies

Eligible actions

Pilot testing at the demonstration and validation phase of full scale, or almost full scale, prototypes of:

- wave energy converters
- floating platforms for wind turbines
- offshore wind turbines
- auxiliary equipment or components considered as complementary to any of the prototypes described above



Financial support EuropeWave

<https://www.europewave.eu/>



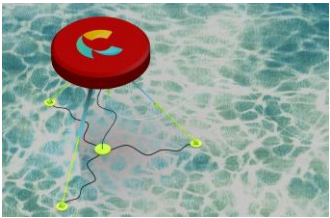
ENERGIAREN
EUSKAL ERAKUNDEA
ENTE VASCO
DE LA ENERGÍA



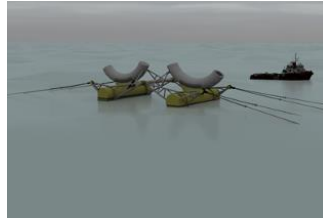
Financial support

EuropeWave

<https://www.europewave.eu/phase-1-awards>



CETO Wave
Energy Ireland Ltd:
ACHIEVE



AMOG Consulting
Ltd: Sea-Saw WEC



Arrecife Energy Systems SL:
Trimaran



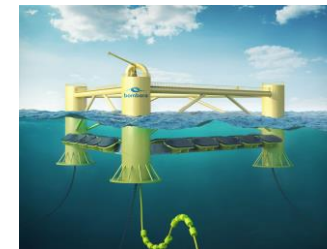
Mocean Energy
Ltd: Blue Horizon
250



IDOM Consulting, Engineering, Architecture SAU:
MARMOK Atlantic



Waveram Ltd:
The Waveram



Bombora Wave Power Europe Ltd:
emWave

www.eve.eus

Financial support

TurboWave Challenge

Background : Mutriku WPP

- First commercial wave energy plant in Europe (2011), with more than 2,4GWh exported to the grid
- 16 Air chambers, for a total installed capacity of 286 kW.
- Intensive work on improvement of the instrumentation system, data acquisition and sharing to steer scientific activities and promote sector-wide knowledge





Financial support TurboWave Challenge

The Challenge

*“Procurement for the R&D Services
for the design development and testing of air turbines for wave energy
In Mutriku Wave Power Plant”*

Expected Outcomes (Phase3)

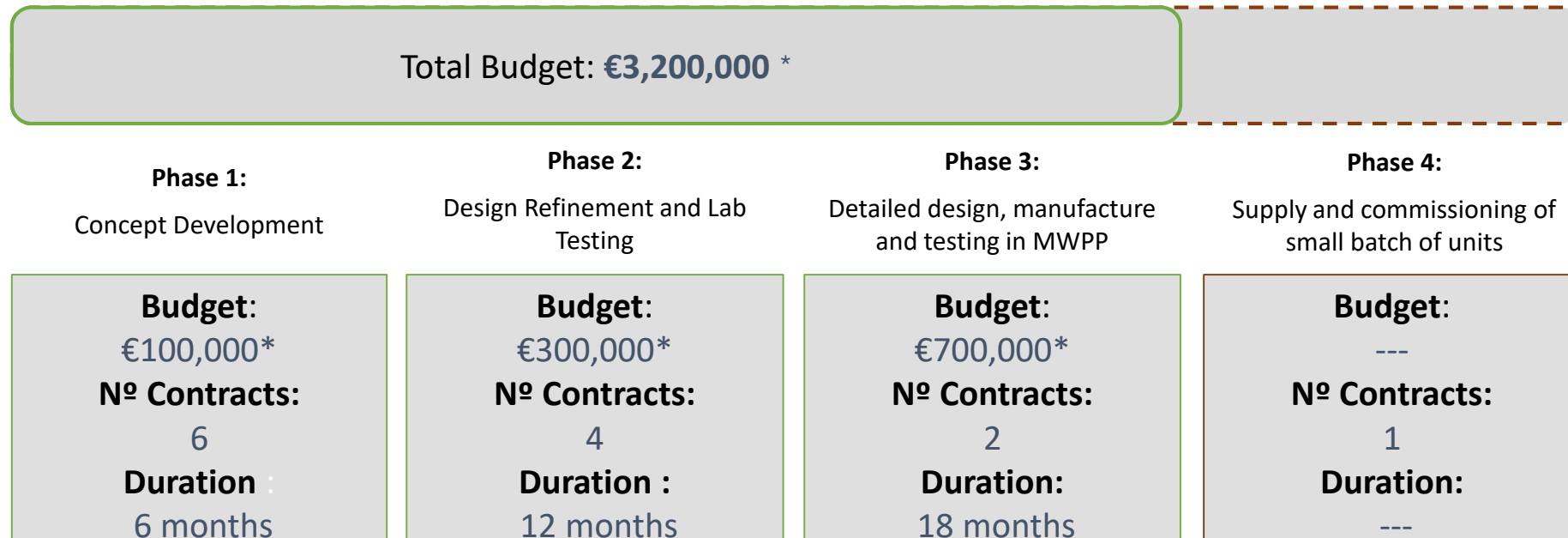
Air turbine prototypes deployed and operational during a 12-month period in Mutriku Wave Power Plant

Product Development and Commercialization Plan

Development and implementation of Technology Qualification Plan

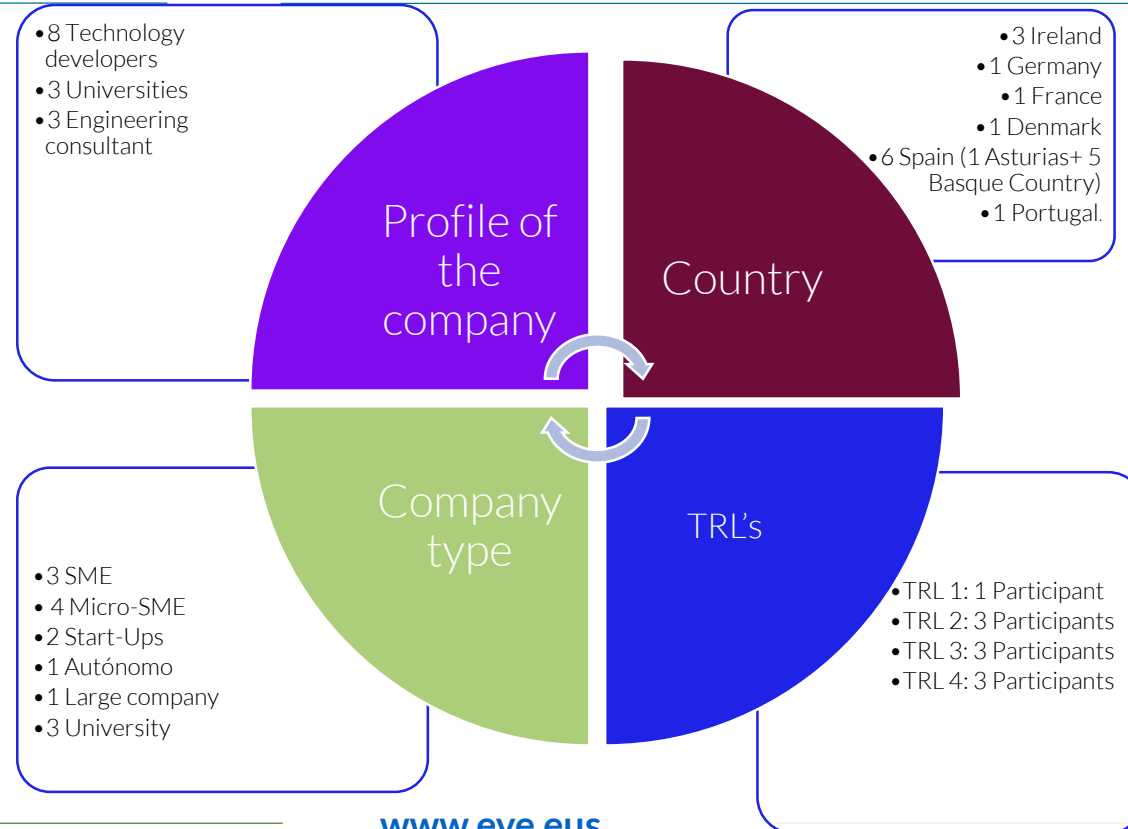
Financial support TurboWave Challenge

Phases, Budget



Financial support TurboWave Challenge

Preliminary Market Consultation



Thank you very much
Eskerrik asko
Muchas Gracias

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