Wave Energy Transition to Future by Evolution of Engineering and Technology

Fact Sheet

Project Information

WETFEET
Grant agreement ID: 641334

Funded under
H2020-EU.3.3.5.

Project website

Overall budget
€ 3 456 883,75

Start date
1 May 2015
End date
30 April 2018

EU contribution
€ 3 456 883,25

Coordinated by
WAVEC/OFFSHORE
RENEWABLES - CENTRO DE ENERGIA OFFSHORE ASSOCIACAO
Portugal

Objective

The recent experience with ocean wave energy have revealed issues with reliability of technical components, survivability, high development costs and risks, long time to market, as well as industrial scalability of proposed and tested technologies. However the potential of wave energy is vast, and also positive conclusions have been drawn, in particular that wave energy is generally technically feasible. Having substantial insight into successes and drawbacks in past developments and existing concepts, the promoters have identified ‘breakthrough features’ that address the above mentioned obstacles, i.e. components, systems and processes, as well as the respective IP. These breakthroughs are applied to two wave concepts, the OWC and the Symphony, under development by members of the consortium. The following main avenues have been identified:
1. Survivability breakthrough via device submergence under storm conditions;
2. O&M (operation and maintenance) breakthrough via continuous submergence and adaption of components and strategies;
3. PTO breakthrough via dielectric membrane alternatives to the “classical” electromechanical power take-off equipment;
4. Array breakthrough via sharing of mooring and electrical connections between nearby devices, as well as integral approach to device interaction and compact aggregates;

WETFEET addressees Low-carbon Energies specific challenges by targeting a set of breakthroughs for wave energy technology, an infant clean energy technology with vast potential.

The breakthrough features of WETFEET are developed and tested on the platform of two specific converter types (OWC and Symphony) with near-term commercial interest, and a large part of the results can make a general contribution to the sector, being implemented in other technologies.

Field of science
/social sciences/economics and business/business and management/commerce
/engineering and technology/environmental engineering/energy and fuels/renewable energy

Programme(s)

Topic(s)

Call for proposal
H2020-LCE-2014-1

Funding Scheme
RIA - Research and Innovation action

Coordinator
WAVEC/OFFSHORE RENEWABLES - CENTRO DE ENERGIA OFFSHORE ASSOCIACAO

Address
Activity type
EU contribution
Participants (12)

TEAMWORK TECHNOLOGY BV
Netherlands
EU contribution
€ 671 602,50
Address
Bergerweg 200 Gebouw C
1817MN Alkmaar
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation

INSTITUTO SUPERIOR TECNICO
Portugal
EU contribution
€ 313 625
Address
Avenida Rovisco Pais 1
1049-001 Lisboa
Activity type
Higher or Secondary Education Establishments
Website
Contact the organisation

EDP INOVACAO SA
Portugal
EU contribution
€ 37 421,63
Address
Praca Marques De Pombal 12
1250 162 Lisboa
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
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UNIVERSITA DEGLI STUDI DI TRENTO

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€ 127 201,18

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Activity type

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Record number: 193803

Permalink: https://cordis.europa.eu/project/id/641334/

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