

Verification through Accelerated testing Leading to Improved wave energy Designs

Fact Sheet

Project Information

VALID

Grant agreement ID: 101006927

Status

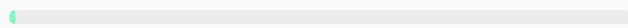
Ongoing project

Start date

1 December 2020

End date


30 November 2023



Funded under
H2020-EU.3.3.2.

Overall budget
€ 4 993 651,25

EU contribution
€ 4 993 651,25

Coordinated by
RISE RESEARCH INSTITUTES
OF SWEDEN AB
 Sweden

Objective

The VALID project will develop and validate a new test rig platform and procedures for accelerated hybrid testing that can be used across the wave energy sector to improve the reliability and survivability of the components and subsystems that form Wave Energy Converters (WECs). The methodology for accelerated hybrid testing combines both physical testing (physical test rigs) and virtual testing (simulated environment, numerical models and data). The VALID Hybrid Test Platform (VHTP) will become the interface that allows for seamless accelerated hybrid testing. With the long-term goal of establishing a standard for future use and making a step-change impact on the sector, the new test rig platform and methodology will be validated for a variety of WECs, critical components and subsystems through three

different user cases.

Often faults in component and subsystems are detected through extensive and costly sea testing in late stages of device development (high TRLs) and finding a problem at late development stages can add significant cost and delays to initial schedules, eventually leading to company's bankruptcy. Sound testing methods are thus needed to reduce the uncertainties, increase confidence in results, assist and guide the concept and subcomponents design, and thus largely assist in the decision-making progress.

The new hybrid testing platform with open access for models, testbeds and improved data management are all necessary to lower the cost on future technologies. VALID assembles the full value chain required from methodology and platform development (AVL, Aquatera), technology development (Corpower, IDOM, Wavepiston), LCOE (Julia F Chosaz Consult Engineering) to certification bodies (RINA-C) in order to develop an integrated solution with support from RTO (RISE, Tecnalia, Bimep) and academia (Aalborg University, TUDelft).

Programme(s)

Topic(s)

Call for proposal

H2020-LC-SC3-2020-RES-RIA

Funding Scheme

RIA - Research and Innovation action

Coordinator



RISE RESEARCH INSTITUTES OF SWEDEN AB

Address

Brinellgatan 4

501 15 Boras

 Sweden

[Website](#) 

Activity type

Research Organisations

EU contribution

€ 1 178 496,25

[Contact the organisation](#) 

Participants (11)



FUNDACION TECNALIA RESEARCH & INNOVATION

 Spain

EU contribution

€ 527 741,25

Address

**Parque Cientifico Y
Tecnologico De Gipuzkoa
Paseo Mikeletegi 2
20009 Donostia/san Sebastian
(Gipuzkoa)**

Activity type

Research Organisations

[Website](#) 

[Contact the organisation](#) 



CORPOWER OCEAN AB

 Sweden

EU contribution

€ 579 616,25

Address

**Vastberga Alle 60 Bv
126 30 Hagersten**

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Contact the organisation](#) 



RINA CONSULTING SPA

 Italy

EU contribution

€ 275 567,50

Address

**Via Cecchi 6
16129 Genova**

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Website](#) 

[Contact the organisation](#) 



BISCAY MARINE ENERGY PLATFORM SA

 Spain

EU contribution

€ 207 492,50

Address

CI Atalaia 2, Bajo
48620 Lemoiz

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Contact the organisation](#) 



IDOM CONSULTING, ENGINEERING, ARCHITECTURE S.A.U.

 Spain

EU contribution

€ 290 442,50

Address

Av Zarandoa 23
48015 Bilbao

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Website](#) 

[Contact the organisation](#) 



AALBORG UNIVERSITET

 Denmark

EU contribution

€ 444 817,50

Address

Fredrik Bajers Vej 7K
9220 Aalborg

Activity type

**Higher or Secondary
Education Establishments**

[Website](#) 

[Contact the organisation](#) 



AVL LIST GMBH

 Austria

EU contribution

€ 293 423,75

Address

Hans-list-platz 1
8020 Graz

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Website](#) 

[Contact the organisation](#) 



WAVEPISTON AS

 Denmark

EU contribution

€ 550 367,50

Address

**Kronborg 10A, 3000 Helsingør
3000 Helsingør**

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Contact the organisation](#) 



TECHNISCHE UNIVERSITEIT DELFT

 Netherlands

EU contribution

€ 265 902,50

Address

**Stevinweg 1
2628 CN Delft**

Activity type


**Higher or Secondary
Education Establishments**

[Website](#) 

[Contact the organisation](#) 



AQUATERA SUSTAINABILITY IRELAND LTD

 Ireland

EU contribution

€ 245 491,25

Address

**Unit 3 Olympis House
Pleasants Street
D08 RY70 Dublin**

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

[Contact the organisation](#) 



FERNANDEZ CHOZAS JULIA

 Denmark

EU contribution

€ 134 292,50

Address

**Norre Farimagsgade 27C 1 Th
1360 Copenhagen**

Activity type

**Private for-profit entities
(excluding Higher or
Secondary Education
Establishments)**

Contact the organisation 

Last update: 17 November 2020

Record number: 231864

Permalink: <https://cordis.europa.eu/project/id/101006927>

© European Union, 2020