Wind as main propulsion by ORCELLE

Fact Sheet

Project Information

**Orcelle**

Grant agreement ID: 101096673

**DOI**

10.3030/101096673

**Start date**

1 January 2023

**End date**

31 December 2027

**Funded under**

Climate, Energy and Mobility

**Total cost**

€ 9 058 727,50

**EU contribution**

€ 8 989 977,50

**Coordinated by**

Wallenius Wilhelmsen Ocean AS

Norway

Project description

Wind as a viable option for reaching zero-emission propulsion

Wind-assisted propulsion is a high-potential solution on the path towards decarbonisation. With this in mind, the EU-funded Orcelle project will develop and demonstrate a solution involving wind as the main form of propulsion. Orcelle expects to achieve an energy efficiency gain of more than 50 % (average savings in full-year operation). While engines may be used in situations where there is insufficient wind, energy efficiency gains could reach close to 100 % under ideal sailing conditions. Building on its initial designs of a prototype vessel, the project will now build two physical demonstrators: a 1-wing retrofit (targeting 10 % efficiency gains) and a multi-wing new-build demonstrator (targeting +50 % efficiency gains overall).
Fields of science

- engineering and technology
- electrical engineering, electronic engineering, information engineering
- electronic engineering
- sensors
- natural sciences
- computer and information sciences
- software
- software applications
- simulation
- software

Programme(s)

- HORIZON.2.5 - Climate, Energy and Mobility
- HORIZON.2.5.7 - Clean, Safe and Accessible Transport and Mobility
- HORIZON.2.5.6 - Industrial Competitiveness in Transport

Topic(s)

- HORIZON-CL5-2022-D5-01-03 - Exploiting renewable energy for shipping, in particular focusing on the potential of wind energy (ZEWT Partnership)

Call for proposal

- HORIZON-CL5-2022-D5-01

See other projects for this call

Funding Scheme

- RIA - Research and Innovation action

Coordinator

Wallenius Wilhelmsen Ocean AS

Net EU contribution

€ 1 844 000,00

Address

Strandveien 20
1366 Lysaker
Norway
Participants (10)

SSPA SWEDEN AB

Sweden

Net EU contribution
€ 1 150 625,00

Address
Chalmers tvargata 10
400 22 Goteborg

Region
Södra Sverige > Västsverige > Västra Götalands län

Activity type
Research Organisations

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

KUNGLIGA TEKNISKA HOEGSKOLAN

Sweden
UNIVERSITEIT GENT
Belgium

Net EU contribution
€ 325 852,50

Address
Sint pietersnieuwstraat 25
9000 Gent

Region
Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00
ALFAWALL OCEANBIRD AB

Sweden
Net EU contribution
€ 2 304 375,00

Address
Hans stahles vag 7
147 80 Tumba

Region
Östra Sverige > Stockholm > Stockholms län

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

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 3 750,00

STORMGEO UAB

Lithuania
Net EU contribution
€ 306 250,00

Address
K kalinausko 2b 401
LT 03107 Vilnius

Region
Lietuva > Sostinės regionas > Vilniaus apskritis

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

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00
VOLVO PERSONVAGNAR AB
Sweden
Net EU contribution
€ 141 750,00
Address
Avd 50090 hb3s 405 31 Göteborg
Region
Södra Sverige > Västsverige > Västra Götalands län
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

MARITIME CLEANTECH
Norway
Net EU contribution
€ 403 500,00
Address
Meatjonnsvegen 74 5412 Stord
Region
Norge > Vestlandet > Vestland
Activity type
Other
Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00
ETHNICON METSOVION POLYTECHNION
Greece
Net EU contribution
€ 505 000,00
Address
Heron polytechniou 9 zographou campus
157 80 Athina
Region
Απόκριση > Απόκριση > Κεντρικός Τομέας Αθηνών
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website
Participation in EU R&I programmes
HORIZON collaboration network
Other funding
€ 0,00

WALLENIUS MARINE AB
Sweden
Net EU contribution
€ 1 175 250,00
Address
Swedenborgsgatan 19
104 62 Stockholm
Region
Östra Sverige > Stockholm > Stockholms län
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Links
Contact the organisation  Website
Participation in EU R&I programmes
HORIZON collaboration network
DNV GL SE

Germany

Net EU contribution

€ 85,875,00

Address

Brooktorkai 18
20457 Hamburg

Region

Hamburg > Hamburg > Hamburg

Activity type

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

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

EC signature date 9 December 2022

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European Union, 2023