Objective

One of the strategic objectives of the industrial initiative of the SET Plan on wind energy is to reduce cost of energy by improving reliability of wind turbines and their components and optimizing operation and maintenance (O&M) strategies. Increasing reliability and optimizing O&M have a direct impact on the availability of wind turbines and thus reduce cost and increase energy output. This strategy considerably contributes to making wind energy fully competitive. This is particularly evident in the offshore sector, where O&M represents a high percentage of total costs.

MARE-WINT will contribute to the achievement of this goal by proving training in the context of doctoral programmes for 14 researchers in multi-disciplinary area of future generation of Offshore Wind Turbines (OWT) engineering focusing on issues having
a major impact on the mechanical loading of OWT and which are still not sufficiently understood.

OWT is a complex energy conversion fluid flow machine which entails coupled hydro-aero-mechanical issues. To design, build and operate a reliable OWT knowledge from disciplines like mechanical engineering, material science, metrology, fluid mechanics, condition monitoring, and computer simulation need to be combined. It is the ambition of MARE-WINT network to bring together specific partners capabilities and know-how to realize tailored training trajectories, focusing on increased reliability OWT design.

Balanced industry-academia network consortium includes 6 Universities, 7 Research Institutes, 4 SME’s and 7 Large Industry Partners. The participation of 13 private sector Partners active in off-shore developments is essential to achieving the full impact of the project. Industrial partners are involved in hosting, training and defining the training needs of the researchers. Strong involvement of the industry will give PhD students the widest possible employment prospects. There are 4 “Industrial PhD” programmes identified within MARE-WINT

Field of science

/natural sciences/physical sciences/classical mechanics/fluid mechanics
/engineering and technology/mechanical engineering
/engineering and technology/environmental engineering/energy and fuels/energy conversion
/social sciences/economics and business/business and management/employment
/engineering and technology/environmental engineering/energy and fuels/renewable energy/windpower
/natural sciences/physical sciences/plasma physics

Programme(s)

Topic(s)

Call for proposal

FP7-PEOPLE-2012-ITN

Funding Scheme

MC-ITN - Networks for Initial Training (ITN)

Coordinator
Participants (12)

DANMARKS TEKNISKE UNIVERSITET

Denmark
EU contribution
€ 587 518,25

Address
Activity type
Anker Engelundsvej 1
Higher or Secondary
Bygning 101 A
Education Establishments
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Administrative Contact
Karen Hyllested Thielsen (Mrs.)

STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND

Netherlands
EU contribution
€ 251 487,06

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Activity type
Westerduinweg 3
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Administrative Contact
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CENTRUM TECHNIKI OKRETOWEJ SA

Poland
EU contribution
€ 205 889,86

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Ul Szczecinska 65
80 392 Gdansk

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

Website
Contact the organisation

Administrative Contact
Tomasz Bugalski (Dr.)

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THE UNIVERSITY OF LIVERPOOL

United Kingdom
EU contribution
€ 246 009,06

Address
Brownlow Hill 765 Foundation Building
L69 7ZX Liverpool

Activity type
Higher or Secondary Education Establishments

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SIEMENS INDUSTRY SOFTWARE NV

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€ 244 563

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Interleuvenlaan 68
3001 Leuven

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

Website
Contact the organisation

Administrative Contact
Bart Peeters (Dr.)

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NUMERICAL MECHANICS APPLICATIONS INTERNATIONAL SA

Belgium
EU contribution
€ 244 563
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