

# NOWITECH

## Norwegian Research Centre for Offshore Wind Technology

The objective of NOWITECH is pre-competitive research laying a foundation for industrial value creation and cost-effective offshore wind farms. Emphasis is on "deep-sea" (+30 m) including bottom-fixed and floating wind turbines. Work is focused on technical challenges including a strong PhD and post doc programme:

- Integrated numerical design tools for novel offshore wind energy concepts.
- Energy conversion systems using new materials for blades and generators.
- Novel substructures (bottom-fixed and floaters) for offshore wind turbines.
- Grid connection and system integration of large offshore wind farms.
- Operation and maintenance strategies and technologies.
- Assessment of novel concepts by numerical tools and physical experiments.
- Total budget (2009-2017) is MNOK 320, M€ 41, MUSD 55



#### Research partners:

- SINTEF (host)
- Institute for Energy Technology (IFE)
- Norwegian University of Science and Technology (NTNU)

#### Industry partners:

- Aker Solutions
- Devold AMT AS
- Det Norske Veritas AS (DNV)
- DONG Energy Power AS
- EDF
- Fedem Technology AS
- Fugro OCEANOR AS
- GE Wind Energy (Norway) AS
- Lyse Produksjon AS
- NTE Holding AS
- SmartMotor AS
- Statkraft Development AS
- Statnett SF
- Statoil Petroleum AS
- Vestas Wind Systems AS
- Vestavind Offshore AS

#### Associated research partners:

- National Laboratory for Sustainable Energy at the Technical University of Denmark (Risø DTU)
- Massachusetts Institute of Technology (MIT)
- National Renewable Energy Laboratory (NREL)
- Fraunhofer IWES
- University of Strathclyde
- TU Delft
- Nanyang Technological University (NTU)

#### Associated industry partners:

- Energy Norway
- Enova
- Innovation Norway
- Navitas Network
- Norwegian Centres of Expertise Instrumentation (NCEI)
- Norwegian Wind Energy Association (NORWEA)
- NVE



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