Launch of the Dutch National Doctoral College in Offshore Renewable Energy and the PhD@Sea Initiative

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Overview

• Context
• Rationale
• Framework
• Ambition
Aspirations for Offshore Wind Energy

source: 2050 - An Energetic Odyssey
Targets for Wind Energy - WindEurope

NL Wind Electricity

2017: 8.5%
2050: ~50%
Knowledge – Collaboration and Dissemination
People – Working Together

Courtesy: EAWE
Providing a Framework

• The Dutch National Doctoral College in Offshore Renewable Energy
• Develop and promote a network of outstanding researchers in the field of offshore renewables
• Develop a low-TRL research agenda on offshore renewable energy that is supported by the Dutch Academic community
• Initiate joint research projects in the field of offshore renewables
PhD@Sea Initiative

Dutch National Doctoral College of Offshore Renewable Energy

Network of PhDs on Offshore Renewable Energy in the Netherlands

Governance: Academia + partners

NWO calls: e.g. PhD@Sea Call

‘Scientific pull’/Low-TRL calls

‘Industry pull’ High-TRL calls

Roadmaps & Research Agendas (e.g. Transitiepaden 2030, SKIAs and TKI-WOZ research agenda)

HER (GROW)
PhD@Sea is:

• A national research initiative on offshore renewable energy incorporating a National Doctoral College in Offshore Renewable Energy
• A governance structure supporting the Doctoral College involving academia and supporting partners which will develop a new low-TRL agenda
National Doctoral College in Offshore Renewable Energy

- Draws on best practice elsewhere, e.g. EU-funded Marie Curie Innovative Training Networks (ITNs)
- The function of this DC is
  - to bring together and coordinate research in offshore renewable energy (primarily offshore wind);
  - to enhance the value of fundamental offshore renewable energy research nationally through sharing of knowledge and resources;
  - to promote collegiality between PhD candidates in different institutes and provide a network during and after their research.
Activities

- Networking
- Shared training
- Broadening choice of courses
- Soft and transferable skills
- Workshops
- Hackathons
- Industry workshops
- Secondments
- Conferences
Our Ambitions

• Organisation of new PhD projects:
  – Aiming to start at least 30 PhDs per year
  – Requires commitment of government, academia and private partners
• Review existing roadmaps, e.g.
  – ‘Long Term Research Challenges in Wind Energy’ by the EAWE
  – National Roadmaps: TKI WOZ research agenda
  – DUWIND research program
• Develop and maintain a joint low-TRL research agenda with Academia (and partners)
Activities for 2018

• Undertake review of all existing PhD research on offshore renewables nationally
• Joint workshop involving Academia and partners
  • Agree Terms of Reference for DC
  • Establish draft plan of activities for next 5 years
  • Set up working group to determine strategic PhD research priorities for next 5 years
  • Announce national PhD conference on offshore renewable energy
Stakeholders Thus Far