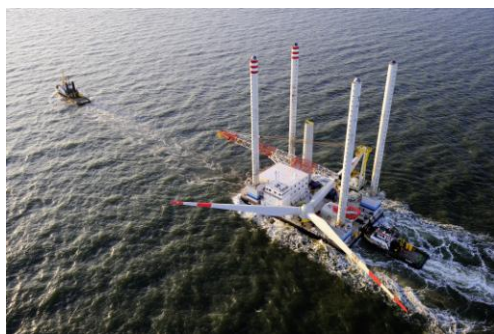


# POWER cluster



## Layout of Bachelor and Master Modules

Offshore Wind Energy is developing into a full size industry, merging together companies from basically two worlds: the wind energy and maritime sectors, – but it is still not mature. There are still only few structured and specialized university programmes to educate young professionals and fulfill the demands for this growing sector.



a ventus press photo, Matthias Ibelser. © DOTI 2009.

### University education

Offshore wind energy is a highly interdisciplinary field. Experts in the offshore wind industry are educated in classical disciplines like engineering, meteorology, physics, or marine technology and shipping, and gain integrated competences through experience. Universities are faced with manifold considerations when developing new programmes: qualification requirements, research infrastructure, local strategic and administrative constraints. Many universities do not have the breadth of competences that allow for a dedicated programme or a wide choice of specializations.

### Main output and results

The project partners have pursued different ways: either developing dedicated programmes for on/offshore wind or specializations in an existing one. Experiences across different institutions and countries have been exchanged.

Some examples:

- “Maritime Technology and Wind Energy Technique” established as Bachelor and Master programme at the University of Applied Sciences Bremerhaven.
- “Wind Physics” established as specialization in the Master of Engineering Physics programme at University of Oldenburg.
- Wind energy modules developed for the Master of Electrical Engineering at Chalmers University.

### Future challenges

The development of modules and programmes in on/offshore wind energy will be continued and more interdisciplinary competences for offshore wind included. International co-operations will help to overcome local constraints and improve the quality of education.



### Partners involved

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