

**Wind Power R&D seminar – Deep sea offshore wind power**  
**20-21 January 2011, Royal Garden Hotel, Kjøpmannsgata 73, Trondheim, NORWAY**



**Norwegian Centre  
for  
Offshore Wind  
Energy**  
**norcowe**

See [www.nowitech.no](http://www.nowitech.no) or [www.norcowe.no](http://www.norcowe.no) for detailed programme and registration.

**Registration closes Monday 10 January. The maximum number of participants is 200.**

**Accommodation:** Radisson Blu Royal Garden Hotel offers accommodation to a price of NOK 1150 per night incl. breakfast. Please book directly to the hotel stating the name of the seminar and ref 1101vinkk, phone: 02525 (Norway) or 800 3333 3333 (abroad) [www.radissonblu.com/hotel-trondheim](http://www.radissonblu.com/hotel-trondheim)

The development of offshore wind farms is now taking off with Europe in the lead. In total about 4 GW of offshore wind farms are now under construction, though these are mainly at fairly shallow waters and close to shore. To realize the goal of 40 GW by 2020 and 150 GW by 2030 however, a large portion of the future offshore wind farms will be further offshore and at deeper waters.

- Dogger Bank, the largest of the UK round 3 zones, is planned with bottom-fixed technology for a total of 9 GW of offshore wind capacity by 2020 located about 200 km from shore at water depths ranging 18-63 m.
- Floating wind technology is currently being developed through research and demonstration programmes. This technology holds the key for future economic exploitation of wind energy over deeper waters.

**Offshore wind, put simple, is maybe the engineering challenge of the decade, but holds also great economic opportunities. In UK alone the offshore wind industry could create as many as 70 000 new jobs, reduce CO<sub>2</sub> emissions by 7% and generate revenues of up to £8bn every year (Carbon Trust).**

This seminar addresses the research and development on deep sea offshore wind power through invited presentations by industry and research. Emphasis is on presenting results from the strong Norwegian research programmes on offshore wind power.

The seminar has been arranged every year since 2004, and has been established as an important venue for the wind power sector in Norway. It follows the line of the previous seminar with all presentations in English allowing for more international participation, poster presentations by PhD students and a strong focus on deep sea offshore wind technology.

The seminar will be a mix of plenary presentations with broad appeal, and presentations in parallel sessions on specific technical themes.

**Thursday 20 January**

- 09.00 Registration & coffee
- 09.30 Opening and plenary session
- 12.00 Lunch
- 13.00 Parallel sessions:
  - a) New turbine and generator technology
  - b) Grid connection and power system integration
  - c) Met-ocean conditions
- 17.00 Poster session
- 19.00 Dinner

**Friday 21 January**

- 09.00 Parallel sessions:
  - d) Operation and maintenance
  - e) Installation and sub-structures
  - f) Wind farm modelling
- 10.30 Refreshments
- 11.00 Plenary session and closing
- 13.10 Lunch

Please contact [Randi.H.Aukan@sintef.no](mailto:Randi.H.Aukan@sintef.no) for any practical questions.