

Network for improving Danish participation and access to EU-funding within the sphere of renewable offshore energy

Call for tenders

Ocean Energy Technology Study

The project "Network for Improving Danish participation and access to EU funding within the sphere of renewable offshore energy", supported by the Danish Council for Strategic Research, has decided to initiate an ocean energy technology study. The call for tenders is published by the organisations Offshore Centre Denmark, Lindoe Offshore Renewables Centre, Aalborg University, Technical University of Denmark and South Denmark European Office.

Content/Scope:

The ocean energy technology study will provide a report with recommendations to the EU Commission and the Danish government on what types of technologies to focus on and what to prioritize in funding opportunities in the area of ocean energy technology. The report should recommend the most promising technologies. No ranking is necessary.

The study should identify the status and potential of the Danish and the international ocean energy sector. Leading to the recommendations should be descriptions of technological challenges for the selected concepts (materials, design, fabrication, installation, O&M etc.). Further, the report should map the industry, subcontracting industry and universities in the EU and Denmark. In addition to this a description of ocean energy and international marked trends within the sector is expected. The report should include a description of selected cases with examples of cooperation and synergies between different actors.

Through a series of meetings / interviews with key players within the sector (inventors, developers, manufacturers, suppliers, universities, research institutions and relevant authorities) the study should assess the status and potential of the sector as a whole and the status and potential of selected ocean energy concepts. Furthermore, the study should include reviews of available existing Danish and international ocean energy technology studies to the analysis of the most promising technologies.

General conditions

- The proposal must be kept within the budget framework (max. DKK 200,000 excl. VAT)
- The proposal must be provided by a knowledgeable and - within the field - experienced organisation
- The study must be carried out objectively without any preferences
- The study must be on a high technical and commercial level
- The proposal must include execution of interviews with key persons and organizations and collection of existing data from appropriate sources in the form of reports, studies and databases
- The final report must be in English
- The contracting entity selects the candidate with the best ratio between price and quality in relation to the listed tasks.
- The tender must include a suggestion of methodology and understanding of the proposed task

- The tender must include curriculum vita for involved personnel
- The study and report must be finalized per 1st April 2012

Specific criterion:

The following actors must be involved in the study:

- Manufacturers: Developers of ocean energy technologies
- Utilities: Companies responsible for the distribution of energy (e.g. DONG)
- Universities: Key universities within the field
- Standardisation / certifying authority: public authorities

The following approach is required in relation to the actors:

Manufacturers:

- Report on lessons learned / track records in connection with laboratory testing and site installation
- Report on the design / conceptual challenges they have, for example, where standards are not sufficient
- Report on the professional network they have taken advantage of, commercial, academic, industrial
- Report on the experiences with the performance of materials in an aggressive environment

Utilities:

- Report on their screening of the ocean energy market
- Report on what type of concepts they support and why
- Report on their requirements for validation/demonstration scale
- Report on their prospects of including ocean energy in their business plans and on what ocean energy percentage volume is expected in relation to total energy production

Universities:

- Report on what theoretical models are used and how they ensure model accuracy (e.g., laboratory test/water tank/wave basins)

Standardisation / certifying authorities:

- Report on their level of documentation concerning main requirements for ocean energy devices
- Report on their specific requirements for tidal machines, punctual absorbent and other types of ocean energy technologies

Deadline and submission:

The deadline for sending proposals is December 9th 2011, midnight.

Proposals should be forwarded to:

Niels Tudor-Vinther, Research Consultant, The Alliance for Offshore Renewables

Email: nv@greenoffshore.dk

For any questions concerning the call for tenders contact Niels Tudor-Vinther for any further details:

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