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<td><strong>Docket Number:</strong> 19-IEPR-07</td>
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<td><strong>Project Title:</strong> Electricity Sector</td>
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<td><strong>Document Title:</strong> 50MW Test Scheme for New Offshore Wind Technologies</td>
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<td><strong>Filer:</strong> Raquel Kravitz</td>
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50MW Test Scheme for New Offshore Wind Technologies

Benoît Bizet
Special Advisor

Oct. 3rd 2019
Part of the political agreement from 2012 committing to a pipeline of 1,400 MW of offshore wind power to be deployed by 2020

- Horns Reef 3 (400 MW) – In operation
- Kriegers Flak (600 MW) – In development
- Vesterhav Nord & South (170 & 80 MW) – In development
- Test Scheme (50 MW) – 28 MW in operation
• The main purpose of the scheme was to contribute to reducing production costs of electricity produced from offshore wind

• Anyone meeting the requirements/objective of the scheme could apply

• Applicants must document an incentive effect
About the Scheme
The Subsidy Set-up

• Selected project are supported with a Contract for Difference of approximately USD 100 / MWh

• The subsidy is provided for a production corresponding to 48,794 full-load-hours (about 12 years)

• The exact number of supported full-load hours is calculated based on the wind turbine type with a weighting of respectively 70 and 30% on the rotor and the generator of the turbine corresponding to 48,794 for a SWT 7.0-154

• No aid granted for negative prices
Minimum Criteria

• To ensure that the commitment is only granted to applicants that will be able to commission, maintain and de-commission the project(s)

• Applicants must document technical, economical and financial capacity to receive the licences necessary pursuant to the Promotion of Renewable Energy Act:
  o Licence for preliminary investigations
  o Licence for construction
  o Electricity production licence
Assessment Criteria - I

- To ensure the potential for development and the commercial perspective of the project(s)
- Emphasis on the significant potential to reduce production costs for offshore wind turbines. Hence the project(s) must:
  - Contain innovative technological development
  - Be technically feasible
  - Be in full scale
Assessment Criteria - II

• Emphasis on the significant commercial perspective. Hence the project(s) must:
  o Meet the demand in the market
  o Enable certification/standardization
  o Have a diversity in the test elements. The more technologies, the more the project will promote the long-term commercial perspective
Evaluation and Granting of the Aid
The Subsidy Set-up

• Assessment by the DEA and selected external evaluators based on the specific criteria, agreed on granting aid to I/S Nissum Bredning Vind

• Potential saving of the project of about 12.5% on both CAPEX and OPEX

• Main contributors: cable types and installation method, jacket foundation concept, slender tower and turbines sensors & algorithm
Main test elements:

• SWP gravity jacket
• concrete transition piece
• slender tower
• 66 kV solution
• turbine sensors & algorithm
With this test pilot project in Nissum broad, Denmark became an exposition window to the global wind industry.

Inter-governmental forum to discuss the possibilities to coordinate test projects in Europe in order to avoid simultaneous tests of similar elements.
Thanks!