



Report workshop ‘tender Borssele’ – 17 November 2014

The goal of the fourth workshop is to inform the industry about the current status of the development of offshore wind energy, the status quo of the Borssele site research and the progress of the offshore electricity grid development by TenneT.

Presentations

The presentations about the current status of offshore wind energy, the Borssele site research data and the electrical infrastructure are available as attachments to this report.

The current policy status was presented by Bert Wilbrink of the Ministry of Economic Affairs. Important points of his presentations were:

- Further information on the wake effects of the Belgian offshore wind farms can be found in a report titled “**Quick scan wind farm efficiencies of the Borssele location**”. This report can be accessed on the following website:
<http://english.rvo.nl/sites/default/files/2014/10/Quick%20scan%20wind%20farm%20efficiencies%20of%20the%20Borssele%20location%20-%20ECN%20%282014%29.pdf>
- The offshore wind industry is of the opinion that the knowledge and experience of the industry should be taken into account when formalizing the bandwidths of the Borssele site decision.
- Because of the different phases of the SDE+ subsidy scheme further information will be provided during the next workshop, held on December 15th, 2014. The focus will be on phase 2, namely the subtraction of grid costs.

The current status of the Borssele site research was presented by Ruud de Bruijne of the Netherlands Enterprise Agency (RVO.nl). Important points of his presentation were:

- The offshore wind industry would like the collection of wind data to start as soon as possible. This to ensure that at the time of the call for tender as much data as possible is available. The Netherlands Enterprise Agency (RVO.nl) announced that data on wind speeds will be made available on a monthly basis.
- Currently, there is no data available on the Belgian offshore wind parks. In the not too distant future there will be talks between the Netherlands and Belgium about the relocation of a cable that runs through the Borssele wind farm site.
- Relocating the cable will take approximately twelve months, starting from the date the agreement has been signed.
- A critical factor for the amount of time it will take to relocate the cable is the availability of the right cable. The expectation is that the decision on relocation will be taken next year. One should note this is in time for the call for tender.

The study on morphodynamics was presented by Tim Raaijmakers of Deltares. Important points of his presentation were:

- Structures like monopiles with scour protection prevent the change of the seabed level.
- In the UK the seabed is even more dynamic than in the Borssele wind farm site.
- One of the conclusions is that the sand waves do not migrate fully during the life time of the wind farm. This is relative. For longer life times and extensions of the use of structures the migrating pattern should be re-analysed.

The status of the offshore electricity grid was presented by Rob van der Hage and Stephan Petersan of TenneT. Important points of their presentation were:

- Tennet is working on parallel processes. Thanks to this method of operation the substations can be placed in approximately two years. During the process there will be continuous communication about planning updates and the estimated date at which the substations will be fully operational.
- On the 27th of November, 2014 TenneT will organize an expert meeting during which important technical considerations will be communicated to the industry. During this session TenneT will also receive feedback from the industry which can be taken into account for the final decisions.
- The four cables in the design of the substation are able to cope with a capacity of 1400 MW.
- In the event that TenneT would opt for 33 kV as opposed to 66 kV additional space is required (safety zone) to connect the cables to the substation. A further drawback of 33 kV is that maintenance will be more challenging.
- The amount of space required for the cables will not be impacted by the choice for either Alternating Current (AC) or Direct Current (DC).
- TenneT will take into account the lessons learned in Germany with regards to liabilities when formalizing its plans. In the process of drafting the "STROOM" bill there have been consultations on which methods to choose. The details of this will be worked out in administrative decrees (AMvB's, Algemene Maatregelen van Bestuur). In this process the industry will also be involved. Industry input is seen as very important.

Closing

The next workshop will be held on December 15th, 2014. Main topics will be the SDE+ subsidy scheme and the technical project description.