

# **Vattenfall Wind Power Ltd**

## **Thanet Extension Offshore Wind Farm**

Appendix 35 to Deadline 6 Submission:

Compulsory Acquisition Hearing 1 Action

Evidence for the Requirement to Retain 3 Route  
Options within Richborough Energy Park

Relevant Examination Deadline: 6

Submitted by Vattenfall Wind Power Ltd

Date: May 2019

Revision A

Drafted By:	Vattenfall Wind Power Ltd
Approved By:	Daniel Bates
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Revision A	Original Document submitted to the Examining Authority
N/A	
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N/A	

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PINS Action:	Action is on:	Question:	Applicant's Response:
CAH Hearing 1 Action	The Applicant	Provide evidence of the need for retention of all three route options in relation to work no.16	<p>The Applicant seeks consent for sufficient land within the Order Limits to provide for 3 cable routing options through Richborough Energy Park.</p> <ul style="list-style-type: none"> <li>• Option 1 – To The North East of the NEMO HVDC Converter Building approaching the NGET 400KV Richborough Substation from the east.</li> <li>• Option 2 – Between the NEMO HVDC Converter Building and the UKPN 132KV Substation approaching the NGET 400KV substation from the south</li> <li>• Option 3 – A route to the south west of the UKPN substation broadly following the south western boundary of the Richborough A Ltd. ownership</li> </ul> <p>Option 3 is the preferred option followed by option 2 and then option 1.</p> <p>Constraints exist on all 3 of the route options.</p> <p>The option 3 constraints relate to the UKPN 132kV and installation of two new 132kV circuits from the NGET 400kV to this substation. These circuits will use the same cable corridor as Option 3 and potentially limit the ability of the Project to route its 2 x 400kV cable circuits within the same corridor. Additionally, any possible extension by UKPN of the 132KV substation to meet increased demand may trigger the need for an addition transformer at the NGET 400kV substation and an additional 132kV circuit running to the UKPN 132KV. This would add further congestion to what is already a very tight cable corridor.</p> <p>The option 2 constraints are ground conditions relating to the former Richborough A Power</p>

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			<p>Station. The available corridor is also tight and is thought to contain foundations from the old power station generator hall as well as potential ground contamination issues. In addition to these risks relating to the former use of the site, discussions with contractor around the feasibility of this route option has identified the corridor also contains existing underground services that will further constrain the routing options.</p> <p>The option 1 constraints are the number of service crossings. The Vattenfall Cables would need to cross the incoming NEMO HVDC circuits twice as well as multiple service connections for the NEMO converter station. In addition the option 1 route would bring the cables into the NGET 400KV substation near the north-eastern corner of the site on an east-west alignment, meaning they would need to be turned to be routed south past the substation GIS building before being routed back north to align with the GIS cable sealing ends located on the southern side of the GIS building.</p> <p>The Applicant wishes to retain option 3 in the event that the UKPN development constricts option 1 and ground conditions within the route option 2 corridor preclude cable laying.</p> <p>The south western option (Option 3) would involve cable laying in proximity to the 132KV underground cable referred to in NGETs Deadline 1 Relevant Representation.</p> <p>The Applicant is in discussions with NGET and UKPN to ensure that the routing of this 132KV cable would not preclude installation of its own 400KV cables in the same vicinity.</p>

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			<p>However, the rating of these cables is dependent on separation to adjacent circuits. It is not possible to conclude assessment on the effect of the 132kV circuits on the 400kV circuit rating until as-laid details of the 132kV circuits are known and detailed design on the 400kV rating has been carried out.</p> <p>Construction of the Applicant's scheme will also be controlled by protective provisions in the Order benefitting NGET, which will ensure that the Applicant's works cannot be commenced until (for example) satisfactory designs and construction methodologies are approved by NGET, UKPN and any other statutory undertakers.</p> <p>The Applicant is engaged in an ongoing process of consultation with Richborough A Ltd. as freehold owner of the energy park and all other energy park stakeholders who enjoy easement and other rights in the common areas thereof with a view to agreeing the optimum cable routing bearing in mind the constraints that exist.</p> <p>The Applicant is negotiating the terms for an option agreement with the landowner covering all 3 route options and has agreed protective provisions and side agreements with National Grid Electricity Transmission and NEMO Link Ltd. giving them comfort over how the selection of the preferred route option will be made.</p> <p>Bearing in mind the constraints that exist and the pace of development within the energy park the applicant considers it reasonable and necessary to have sufficient land available within the Order Limits for any of the 3 options to be taken forward in order to allow sufficient</p>

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			flexibility for the constraints to be worked around and for the various different projects proposed within the energy park to remain deliverable.