

Duncan Clark
Programme Director for Hornsea Project One
Heron Wind Ltd
c/o Orsted Wind Power
5 Howick Place
Westminster
London
SW1P 1WG

Direct Dial: 020 7901 3932
Email: gethin.morris@ofgem.gov.uk

Date: 21 September 2018

Dear Duncan,

Hornsea Project One - Initial Transfer Value and Cost Assessment Process

Introduction

In order to commence the Enhanced Pre-Qualification (EPQ) stage we will publish the EPQ document and Preliminary Information Memorandum (PIM) (the "EPQ Documentation") for the Hornsea Project One Offshore Wind Farm Transmission Assets (the "Project"). In the EPQ Documentation we will include the Initial Transfer Value for the Project for the purposes of the bidders' EPQ submissions.

The purpose of this letter is to set out to you:

1. The Initial Transfer Value for the Project to be referred to in the EPQ Documentation; and
2. An overview of the cost assessment process.

Initial Transfer Value

In your cost submission of 24 August 2018, you provided us with an initial forecast of costs for the development and construction of the transmission assets for the Project. We understand your forecast costs to be £1,396m, which is comprised of:

- Capital expenditure (including contingency): £1,173.2m
- Development costs (including transaction costs): £61.7m
- Interest During Construction (IDC) costs: £161.1m

The Initial Transfer Value is **£1,396m** and this figure will appear in the EPQ Documentation.

These figures are based on your chosen boundary point located at the 34 kV Gas Insulated Switchgear (GIS) end of the cable between the offshore transformer and the 34 kV GIS. As a result of the chosen boundary point, we understand that the following assets will transfer to the Offshore Transmission Owner (OFTO):

- *3 offshore platforms (OSPs) – Including six 220/34 kV transformers, auxiliary transformers, 220 kV GIS, 34 kV switchgear, 34 kV cables, three HV shunt reactors, auxiliary systems;*
- *1 reactive compensation platform – Including three 220 kV shunt reactors, auxiliary transformers, 220 kV GIS;*

- *3 Export cables (with associated fibre optics)* – All of these circuits are 220 kV, and when combined come to a total length of 434.5 km. The West circuit 136.6 km long, the East circuit is 154.9 km long and the Central circuit is 143.0 km long. Each circuit includes a cable Transition Joint Bay (TJB) to connect submarine and land cables;
- *2 Interlink cables (with associated fibre optics)* – Both interlink circuits are 220 kV and are 13.3 km and 14.9 km in length;
- *3 Land cables (with associated fibre optics)* – Onshore 220 kV underground cables of 38 km route length;
- *1 onshore substation* – Including three 400/220 kV transformers complete with 400 kV and 220 kV GIS, two 400 kV shunt reactors, three 220 kV variable shunt reactors, three STATCOM (dynamic reactive compensation) plants, two 400 kV harmonic filters and three 220 kV harmonic filters and LV auxiliary systems;
- *Two 400 kV cables* – Two 400 kV circuits, circa 0.5 km long, linking the onshore substation to NGET's Killingholme substation;
- *Two 400kV GIS bays within the NGET Killingholme Substation;*
- *Within the NGET Killingholme Substation the complete 400 kV GIS equipment up to the OFTO/NGET ownership boundary, including associated protection & control equipment, monitoring equipment and civil works; and*
- SCADA - including the OFTO SCADA system.

We note that this boundary point and the assets transferring may be subject to change at a later date, and that this may result in changes to the cost estimates and/or assessment described in this letter.

You should note that the use of this information is not an endorsement by us of the basis on which you derived your estimated costs or any assumptions or methodology that you used in your calculations. It is simply being used for the purpose of commencing the tender exercise.

Cost Assessment Process

The Electricity (Competitive Tenders for Offshore Transmission Licences) Regulations 2015 (the "2015 Regulations") provide the legal framework for the process which Ofgem runs for the grant of offshore electricity transmission licences. The Regulations¹ set out the requirement for the Authority to calculate, based on all relevant information available to it at the time, the economic and efficient costs which ought to be, or ought to have been, incurred in connection with developing and constructing the offshore transmission assets in respect of a qualifying project.

Where the construction of the transmission assets has not reached the stage when those transmission assets are available for use for the transmission of electricity, this calculation will take the form of an estimate of the costs which ought to be incurred in connection with the development and construction of those transmission assets. This estimate is the Indicative Transfer Value (ITV) for the Project which will be included in the Invitation to Tender (ITT) documentation. This value will be used for the Tender Revenue Stream (TRS) bids submitted by bidders at the ITT stage.

¹ Regulation 4(1).

Where construction has reached the stage when those transmission assets are available for the use for the transmission of electricity, the calculation of costs will take the form of an assessment of the costs which ought to have been incurred.

Data Collection

Under Regulation 4(3) of the 2015 Regulations, we may request information from you for the purposes of enabling bidders to take into account the most accurate ITV in order to meet any requirements of a particular stage of the tender process.

Through the cost assessment process you will be required to complete cost reporting templates and cash flow schedules. These will relate to the forecast and actual costs of construction contracts, development costs, and financing costs related to the development and construction of the transmission assets being transferred to the OTO.

You may also be required to provide supporting evidence to substantiate these cost submissions including, amongst other things, contract documentation (including completed variation orders where necessary), supplier payment lists, and asset schedules.

We remind you that if you fail to provide such information to us this may constitute an event of disqualification under the 2015 Regulations.

Updated Cost Estimates

During the EPQ stage, Ofgem will review and analyse the cost information that you have provided. We may request further information from you to calculate the ITV.

In calculating the ITV we will conduct an initial forensic accounting investigation. This will require our external advisers to visit your offices and will involve checking your internal documents, contracts, and supporting information. This may require Ofgem to visit the developer's offices to ensure that all the relevant information is available prior to our external adviser's visit. We will contact you as part of the ITV process to discuss this further.

In conducting our analysis for the ITV we will use project information gathered from offshore transmission developers to compare costs between projects and identify projects that are cost outliers when compared to the range of other projects. Where cost outliers are identified, we will liaise directly with you to ascertain the reason for this. In addition, we may indicate to our technical consultants that the cost outlier requires further investigation into whether the proposed cost is economic and efficient.

We will confirm the ITV to you in writing, along with an explanation of our rationale in reaching this estimate of costs. We may also provide further updates to the ITV during the Preferred Bidder (PB) stage for the purposes of inclusion within the PB's TRS.

Assessment of Costs and Final Transfer Value

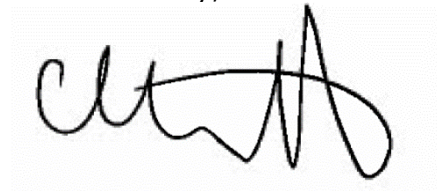
We intend to commence the process for the assessment of costs during the PB stage. This assessment of costs shall be used by Ofgem to determine the value of the transmission assets to be transferred to the successful bidder in respect of the Project (the final transfer value determined by Ofgem).

Next steps

We will shortly be in contact with you to set out further details in relation to the cost assessment process.

If you have any questions regarding this letter, please contact Gethin Morris on 020 7901 3932 or via email (gethin.morris@ofgem.gov.uk) in the first instance.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Cathryn Scott', with a stylized, cursive script.

Cathryn Scott
Director, Wholesale Markets and Commercial