



STATEMENT OF
BLUE TRANSMISSION SHERINGHAM
SHOAL LIMITED

BASIS OF TRANSMISSION OWNER
CHARGES

1 April 2021 to 31 March 2022

Blue Transmission Sheringham Shoal Limited

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STATEMENT OF

BLUE TRANSMISSION SHERINGHAM SHOAL LIMITED

BASIS OF TRANSMISSION OWNER CHARGES

This statement is produced by Blue Transmission Sheringham Shoal Limited (BTSSL), the Offshore Transmission Owner (OFTO), which sets out the basis of charges for the provision by BTSSL to National Grid Electricity System Operator Limited (NGESO) (the GB System Operator, GBSO) of transmission services as specified in the Offshore Electricity Transmission Licence (Licence) and System Operator Transmission Owner Code (STC).

This Statement is effective from 1 April 2021.

The charges shall consist of TO General System Charges, TO Site-Specific Charges, Offshore Transmission Owner of Last Resort Charges and Other Charges as set out in this statement.

Introduction

BTSSL is obliged, under Amended Standard Condition E12 – J9 (Basis of Transmission Owner Charges) of its Licence, to prepare and submit to the Authority in a form approved by the Authority, a statement setting out the basis upon which charges will be made for:

- a) provision of transmission owner services;
- b) connection to BTSSL's transmission system in such form and detail as shall be necessary to enable NGESO to make a reasonable estimate of the charges to which it would become liable for the provision of BTSSL's services; and
- c) outage changes.

Amended Standard Condition E12 – J9 requires that the statement shall in respect of connection to the licensee's (BTSSL) transmission system include:

- a) *a schedule listing those items (including the carrying out of works and the provision and installation of electric lines or electrical plant or meters) of significant cost liable to be required for the purpose of connection (at entry or exit points) to the licensee's transmission system for which site specific charges may be made or levied and including (where practicable) indicative charges for each such item and (in other cases) an explanation of the methods by which and the principles on which such charges will be calculated*
- b) *the methods by which and the principles on which site specific charges will be made in circumstances where the electric lines or electrical plant to be installed are (at the licensee's discretion) of greater size or capacity than that required;*
- c) *the methods by which and the principles on which any charges (including any capitalised charge) will be made for maintenance, replacement and repair required of electric lines, electrical plant or meters provided and installed for making a connection to the licensee's transmission system;*
- d) *the methods by which and the principles on which any charges will be made for disconnection from the licensee's transmission system and the removal of electrical plant, electric lines and ancillary meters following disconnection; and*
- e) *such other matters as shall be specified in directions issued by the Authority from time to time for the purpose of this Amended Standard Condition E12 – J9.*

Site specific charges for those items referred to above shall be set at a level which will enable the licensee to recover:

- a) *the appropriate proportion of the costs directly or indirectly incurred in carrying out any works, the extension or reinforcement of the licensee's transmission system or the provision and installation, maintenance, replacement and repair or (as the case may be) removal following disconnection of any electric lines, electrical plant, meters or other items; and*
- b) *a reasonable rate of return on the capital represented by such costs.*

Amended Standard Condition E12-J9 permits and, where appropriate, requires that BTSSL:

- a) may periodically revise this statement, and shall at least once in every year this Licence is in force make any necessary revisions to this statement in order that the information set out in the statement shall continue to be accurate in all material respects, as required by clause 7 of Amended Standard Condition E12-J9;
- b) is required to send a copy of this statement and each revision of this statement to the Authority and shall publish this statement on its website, as required by clause 8 of Amended Standard Condition E12-J9.

Principles

This statement sets out BTSSL's charges for the provision of transmission services to NGENSO, in its capacity as National Electricity Transmission System Operator (NETSO).

The STC permits BTSSL to charge for its services under a number of headings: TO General System Charges; TO Site-Specific charges; Offshore Transmission Owner of Last Resort Charges and Other Charges.

BTSSL must identify and classify its assets into one of two charging categories – TO General System Charges and TO Site-Specific Charges. BTSSL has identified all of its assets as being attributable to the **TO General System Charges** category and therefore BTSSL does not have any **TO Site-Specific Charges**. The TO General System charges are designed to recover the cost of the OFTO assets acquired by BTSSL over the 20 year life of the revenue entitlement under the Licence.

If BTSSL is given a Direction under Standard Condition E21 (Offshore Transmission Owner of Last Resort) of the Licence, then it is eligible to charge for services rendered in accordance with these conditions. The principles for charging **Offshore Transmission Owner of Last Resort Charges** are set out later in this statement – see “Offshore Transmission Owner of Last Resort Charges” later in this statement.

BTSSL may at the request of NGENSO carry out other work, which is not covered by the TO General System Charges or Offshore Transmission Owner of Last Resort Charges, including, for example, outage rescheduling. The principles for calculating such **Other Charges** are also set out in this statement – see “Other Charges – Excluded Services Charges” later in this statement.

The **TO General System Charges** are charges that relate to the recovery of costs incurred in respect of BTSSL's entire transmission infrastructure from the 33kV array cable terminations on the 33kV circuit breakers located on the offshore platform through to the connection within the embedded Transmission Interface Site operated by Eastern Power Networks Limited. The principles adopted in determining the TO General System Charges are explained in the section “Transmission Owner Revenue Restriction” outlined later in this statement.

The methodology for calculating the TO General System Charges, TO Site-Specific Charges, the Offshore Transmission Owner of Last Resort Charges and Other Charges is set out on the following pages.

Transmission Owner Revenue Restriction (TO General System Charges)

The Licence sets a restriction on BTSSL's **TO General System Charges**, as described below.

Amended Standard Condition E12 – J2 (Restriction of Transmission Revenue: Revenue from Transmission Owner Services) of BTSSL's Licence establishes the charge restriction that determines the allowed transmission owner revenue (OFTO_t) that BTSSL may earn from its transmission owner services.

The formulae for the calculation of OFTO_t are set out in BTSSL's Licence. Values for certain parameters required to calculate charges for the 2021/2022 financial year (year t=9) are as specified in Appendix 1.

In the event of additional capacity being required from BTSSL the value of OFTO_t will be adjusted in accordance with the formulae set out in the Licence (Amended Standard Condition E12 - J4 (Restriction of Transmission Revenue: Annual Revenue Adjustments) and Standard Condition E17 (Obligations in relation to offers for connection etc.)).

Transmission Owner Revenue Restriction (TO Site-Specific Charges)

BTSSL does not expect to have any TO Site-Specific Charges.

TO Site-Specific Charges relate to costs associated with connections that are not recovered through TO General System Charges or Other Charges. BTSSL expects that the majority of the costs incurred in relation to connections would be recovered through TO General System Charges, with some related charges recovered as Other Charges. As a consequence, BTSSL is unlikely to invoice NGENSO for any TO Site-Specific Charges.

Offshore Transmission Owner of Last Resort Charges

In the event that BTSSL is given a notice by the Authority under Standard Condition E21 (Offshore Transmission Owner of Last Resort), then BTSSL would be permitted to charge Offshore Transmission Owner of Last Resort Charges for transmission services provided in accordance with the direction of the Authority. These charges would be as set out and specified in a direction issued by the Authority to the OFTO in accordance with Standard Condition E21.

Other Charges – Excluded Services Charges

Amended Standard Condition E12 - J10 (Excluded Services) permits BTSSL to charge NGE SO for other services provided in addition to those services provided in BTSSL's capacity as Offshore Transmission Owner. No charges can be made to NGE SO for any services in so far as they relate to the provision of services remunerated under charges for offshore transmission owner services in accordance with Amended Standard Condition E12 - J9 (Basis of Transmission Owner Charges). The basis for determining transmission owner charges is described above under the section "Transmission Owner Revenue Restriction".

Other charges - excluded services charges are permitted to be made in respect of:

- 1) The net costs reasonably incurred by BTSSL arising from any outage change at NGE SO's request;
- 2) Costs arising from the processing of connection applications that might result in BTSSL's providing additional transmission system capability together with any feasibility studies as requested by NGE SO; and
- 3) Costs of relocating electrical plant, wires and cables and associated works arising from a statutory obligation (other than under section 9 (2) of the Electricity Act 1989 imposed on the licensee).

The Other Charges relating to transmission services that can be levied on NGE SO by BTSSL in any year are equal to the sum of the charges listed below net of any Interruption Charges (as defined in the STC) charged by NGE SO to BTSSL.

a) Application fees

BTSSL will charge NGE SO an application fee as set out in Appendix 2 at the time of each application for a new or modified connection to BTSSL's transmission system. The application fee is intended to cover the actual engineering costs and other expenses incurred by BTSSL in preparing an offer of terms, and is dependent upon the size, type and location of the proposed new or modified connection.

BTSSL will monitor and record the actual costs incurred in preparing an offer of terms and when the work has been completed, BTSSL will compare the actual costs incurred to the application fees charged to NGE SO. In the event that there is a difference between the application fee and costs incurred this amount will be charged or refunded to NGE SO as appropriate.

a) Application fees (continued)

NGESO will be charged for the actual costs incurred by BTSSL in carrying out this work, based on BTSSL's market based charge-out rates as detailed in Appendix 3 to this statement.

Should NGESO notify BTSSL of changes in the planning assumptions after receipt of an application fee, BTSSL may levy an additional charge. In any event, whether an additional charge is levied or not, the actual costs incurred in preparing a revised connection will be charged to NGESO through the mechanism described above when the offer is completed.

If, in exceptional circumstances, NGESO makes an application which involves significant costs over and above those that would be normally expected (e.g. substantial system studies, specialist surveys, investigations) to process an offer of terms then BTSSL reserves the right to vary the applicable fee.

If, following completion of the works to which the application related, the incremental capacity incentive adjustment term (ICA_t) in Amended Standard Condition E12 - J4 (Restriction of Transmission Revenue: Annual Revenue Adjustments) ("incremental capacity incentive") is adjusted so that the cost of the application is recovered through the TO General System Charges, then the application fee will be refunded to NGESO.

b) Feasibility study fees

If NGESO requests a feasibility study associated with alterations to or extension of BTSSL's network, a fee (the "advance fee") will become payable in advance of any engineering and out of pocket expenses incurred by BTSSL. The advance fee payable by NGESO will vary according to the size of the study and the amount of work expected and will be charged on the basis of the expected cost of completing the feasibility study.

Actual costs incurred will be based on the BTSSL's market based charge-out rates as shown in Appendix 3 and any other external costs incurred by BTSSL (e.g. travel & subsistence costs, specialist surveys, external consultants etc.) in completing the study. Where the actual engineering and out of pocket expenses incurred by BTSSL exceed the advance fee, BTSSL will issue an invoice for the excess. Conversely, where BTSSL does not use the whole of the advance, the balance will be refunded.

c) Abortive works charges

If as a result of a modification application, received after commencement of works, BTSSL is required to make amendment to the transmission construction works and BTSSL has previously carried out some or all of the works that are no longer required, then these works are defined as "abortive works". In such circumstances, NGESO shall be required to make a payment to BTSSL in respect of all fees, expenses and costs of whatever nature reasonably and properly incurred by BTSSL in respect of these abortive works for which BTSSL is responsible or may otherwise become liable in respect of the abortive works.

c) Abortive works charges (continued)

Invoices will be raised on NGESO in respect of all reasonably incurred costs attributable to the abortive works.

If the abortive works result in an adjustment to the incremental capacity so that the cost, or part thereof, of the abortive works is recovered through the TO General System Charges, then the cost, or part thereof, previously charged to NGESO in respect of the abortive works will be refunded.

d) De-energisation and disconnection charges

Where NGESO wishes a supply to be permanently de-energised, a minimum of two business days' notice (or such other period as may be specified in the TO Construction Agreement and/or STC) to that effect should be given to BTSSL. BTSSL will then arrange to de-energise the supply. An additional charge will be made for this service if undertaken outside normal working hours in order to recover any additional costs for call-out or out-of-hours working.

Temporary de-energisation (and subsequent re-energisation) resulting from the failure by NGESO to comply with the terms of their relevant agreement, or carried out at the request of NGESO, will be charged for by BTSSL to NGESO based on the costs incurred by BTSSL.

If NGESO requests disconnection, this request must be made in writing.

e) Charges for outage changes

Where prearranged outages are rearranged at NGESO's request or where NGESO require additional services for planned or unplanned outages and these services are over and above the normal service provided under BTSSL's Operation and Maintenance Service Agreement (relevant details of which will be disclosed to NGESO on request), then additional charges will be made in respect of these additional services.

The additional charges levied on NGESO will reflect the reasonably incurred net costs incurred by BTSSL in accommodating NGESO's request and will be determined in accordance with STCP 11-3 "TO Outage Change Costing". BTSSL's charges to NGESO in respect of rearranged outages and/or additional services will include all net costs incurred by BTSSL and will relate directly to the activities required by NGESO. Where appropriate these costs will be based on the market based charge-out rates as shown in Appendix 3 to this statement.

e) Charges for outage changes (continued)

These costs include, but are not limited to:

- Demobilisation and remobilisation costs;
- Costs (including where appropriate, liquidated damages) of standing down or mobilising contractors until the rescheduled outage starts. Costs will be derived from contractors' invoices and, in the case of liquidated damages, from the relevant agreement(s);
- Costs of overtime working to reduce outage time so as to reduce NGESO's net costs in maintaining system security. Cost will be based on overtime hours worked on the particular outage;
- Additional waiting on weather costs for carrying out work at different times of year;
- Costs of installing additional equipment, as required, such as bypass arrangements;
- Revenue deductions (or increases) through the incentive mechanism that the OFTO may be subject to as a result of the outage changes.

Where an outage is rearranged at NGESO's request, BTSSL will use all reasonable endeavours to minimise the charge to NGESO by redeploying staff and/or contractors onto other work where this is reasonably practicable.

f) Miscellaneous

If NGESO should request BTSSL to carry out any other activity which is not covered by the TO General System Charges, TO Site-Specific Charges, Offshore Transmission Owner of Last Resort Charges, Interruption Charges, or the Other Charges specified above, BTSSL will provide terms for the requested work.

Any other service of a type not already referred to within this section where such a service is not part of the normal part of the offshore transmission business will be charged for based on BTSSL's market based charge-out rates shown in Appendix 3 together with any other external costs incurred.

GLOSSARY

Allowed transmission owner revenue (OFTO _t)	The maximum revenue that BTSSL is permitted to earn from the provision of transmission owner services, as determined by BTSSL's Offshore Electricity Transmission Licence
Authority	The Gas and Electricity Markets Authority (Ofgem)
BTSSL	Blue Transmission Sheringham Shoal Limited, the owner of the Sheringham Shoal offshore transmission system
kV	A unit equal to one thousand volts
NGESO	National Grid Electricity System Operator Limited, the GB system operator
NGET	National Grid Electricity Transmission plc, the owner of the onshore electricity transmission system in England and Wales
Retail Price Index	Means the general index of retail prices published by the Office for National Statistics each month in respect of all items
Offshore Electricity Transmission Licence	A licence issued by the Authority which permits an OFTO to participate in the transmission of electricity
STC	System Operator Transmission Owner Code, which defines the high-level relationship between the National Electricity Transmission System Operator (NGESO) and Transmission Owners
STCP	System Operator Transmission Owner Code procedures
TO Construction Agreement	An agreement between NGET and BTSSL pursuant to the STC
Transmission owner or TO	BTSSL is the transmission owner of the Sheringham Shoal offshore transmission system and is responsible for delivering transmission owner services in accordance with the requirements of its Offshore Electricity Transmission Licence and System Operator Transmission Code
Transmission system	Those assets that comprise BTSSL's entire transmission infrastructure from the 33kV array cable terminations on the 33kV circuit breakers located on the offshore platform through to the connection within the embedded Transmission Interface Site operated by Eastern Power Networks Limited
OFTO	Offshore Transmission Owner

APPENDIX 1

Charging parameters for 2021/2022

The parameters outlined in the table below are set out in the Amended Standard Conditions of the Licence, specifically in:

E12 - J1 (Restriction of Transmission Revenue: Definitions)

E12 - J2 (Restriction of Transmission Revenue: Revenue from Transmission Owner Services)

E12 - J3 (Restriction of Transmission Revenue: Allowed Pass-through Items); and

E12 - J4 (Restriction of Transmission Revenue: Annual Revenue Adjustments).

Parameter	Value
Tender Relevant Year	Financial year ended 31 March 2014 (this is t=1)
Relevant Year	Financial year ending 31 March 2022 (this is t=9)
BR ₉ (base transmission revenue)	£21,675,901 (Reflects MRA in accordance with Amended Standard Condition E12-A2)
PR ₉ (proportion of revenue term)	PR ₉ = 1
RIT ₉ (revenue indexation adjustment)	RIT ₉ = 1.20771105846809

$$RIT_9 = (1 + RPI_9) * RIT_8$$

Where:

RIT₈ is 1.18982387475538; and

RPI₉ is 0.0150334718374886

RPI₉ is the percentage change, expressed as a decimal number, between:

1. The average value of the retail price index from January 2019 to December 2019 inclusive ("relevant year t-2"), and
2. The average value of the retail price index from January 2020 to December 2020 inclusive ("relevant year t-1").

For the avoidance of doubt:

RIT₉ applies to charges in the year from 1 April 2021 to 31 March 2022; and

RIT₈ applies to charges in the year from 1 April 2020 to 31 March 2021.

Parameter	Value
PA ₉ (performance availability revenue adjustment)	PA ₉ = £1,067,006 (being the annual revenue adjustment derived in accordance with Amended Standard Condition E12 – J4)
LF ₉ (licence fee cost adjustment)	LF ₉ = £0 (Zero licence fees to Transmission Owners in most circumstances; see clause 3.4 of Ofgem document "Offshore Transmission Tender Guidance Note: Generic Offshore Transmission Owner (OFTO) Licence (3 September 2010)").
RB ₉ (network rates)	RB ₉ = £614,400 being the network rates based on a rateable value of £1,200,000 as provided by the valuation office and applying the non-domestic rate multiplier of 51.2p in the £.
CEL ₉ (Crown Estate lease cost adjustment)	CEL ₉ = £1 (if demanded)
DC ₉ (decommissioning cost adjustment)	DC ₉ = £0
IAT ₉ (income adjusting event revenue adjustment)	IAT ₉ = £0
TPD ₉ (temporary physical disconnection payment)	TPD ₉ = £0
TCA ₉ (tender fee cost adjustment)	TCA ₉ = £0
MCA ₉ (Marine and Coastal Act 2009 cost adjustment)	MCA ₉ = £0
CEA ₉ (contingent event adjustment)	CEA ₉ = £0
K ₉ (revenue restriction correction factor)	K ₉ = £0

APPENDIX 2

Application fees

Connection or modification size	Application fee
0-10 MW	£129k
10-100 MW	£156k
>100 MW	To be determined in the event of such an application.

All application fees are subject to VAT at the prevailing rate.

APPENDIX 3

Market based charge-out rates

Grade	Rate (£/day)
General Manager	3,175
Technical Director	2,646
Principal Engineer	1,588
Engineer	1,166
Finance Director	2,646
Financial Controller	1,588
Administrative support	727
External charges	Cost + 6%

All fees are subject to VAT at the prevailing rate.

The grade and mix of staff/contractors used to carry out the activity being requested will, where practicable, be at the appropriate level associated with the work required. Where particular skills are required that are not covered by the table above, then BTSSL will obtain and provide the necessary resource at the prevailing market rate.

Given the complexity of the marine environment and interaction with prevailing weather conditions, it is possible that staff/contractors that are planned to carry out a specific activity or project are prevented from doing so by inclement weather. In such circumstances, to the extent that BTSSL are unable to redeploy those staff/contractors to another activity then charges based on the above charge-out rates will be levied to the activity or project that gave rise to their mobilisation in the first place.