SP Energy Networks

Statement of the Basis of Transmission Owner Charges

Applicable from 1st April 2025

Subject to OFGEM Approval

SP Transmission

Index

Overview

1. Our Charging Statement

This statement is produced by SP Transmission plc (SPT), the Transmission Owner (TO), which sets out the basis of charges for the provision by SPT to National Energy System Operator (NESO).

This statement is effective from 1 April 2025.

The charges shall consist of a General System Charge, Site Specific Charges and Other Charges as set out below in Parts 1, 2 and 3 below respectively.

1.1. Introduction

This statement is produced by SP Transmission plc (SPT), the Transmission Owner (TO), which sets out the basis of charges for the provision by SPT to National Energy System Operator (NESO).

SPT is obliged, under Special Condition (SC) 9.12 of its electricity Transmission Licence, to prepare a statement approved by the Authority setting out the basis upon which charges will be made for the provision of transmission services in such form and detail as shall be necessary to enable NESO to make a reasonable estimate of charges to which it would become liable for the provision of SPT's services. These services include the planning, development, construction, maintenance and operation of new and modified connections to the licensee's transmission system.

Special Condition 9.12 requires that the statement shall in respect of connection to the licensee's (SPT) 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 condition.

1.2. Principles

This statement sets out SPT's charges for the provision of transmission services to NESO. In order to calculate the charges of providing these services, SPT must apportion its assets to one of two charging categories, General System Charge and Site Specific Charges.

The General System Charge recovers all costs for providing, replacing and/or refurbishing SPT's transmission infrastructure assets.

Site Specific Charges recover all costs for providing, replacing and/or refurbishing connection assets. These charges enable SPT to recover, with a reasonable rate of return, the costs involved in providing the assets, installed solely for and only capable of use by an individual User, that afford connection to the transmission system.

These costs may include civil costs, engineering costs, and land clearance and preparation costs associated with the connection assets. No land purchase costs are included.

SPT, at the request of NESO, carry out other work, which is not covered by the General System Charge or Site-Specific Charges, including, for example, outage rescheduling, dealing with applications for connections, or obtaining consents. The principles for calculating such Other Charges are also set out in this statement.

1.3. Connection and Use of System Boundary

In general, connection assets are defined as those assets solely required to connect an individual User to the SPT transmission system, which are not and would not normally be used by any other connected party (i.e. "single User assets"). For the purposes of this statement, all connection assets at a given location shall together form a connection site.

Connection assets are defined as all those single User assets which:

A. for double busbar type connections, are those single User assets connecting the User's assets and the first SPT owned substation, up to and including the double busbar bay;

B. for teed or mesh connections, are those single User assets from the User's assets up to, but not including, the HV disconnector or the equivalent point of isolation;

C. for cable and overhead lines at a Transmission Voltage, are those single User connection circuits connected at a Transmission Voltage equal to or less than 2km in length that are not potentially shareable.

Shared assets at a banked connection arrangement will not normally be classed as connection assets except where both legs of the banking are single User assets under the same connection agreement.

Where it is necessary to optimise existing assets for connections, for example, a single user asset may become shared by two or more Users, meaning that the relevant assets should be re-classified as infrastructure, the connection charges for those assets shall cease whilst so categorised.

Where a previously shared use asset ceases to be shared following permanent disconnection of a User, reclassification of the relevant infrastructure asset to be a single user asset should be made:

- upon replacement at the end of the asset's book life or

- upon a User requested modification that requires the relevant assets" use as single User assets meet the User's requirements as agreed in SPT's relevant agreement with NESO.

Indicative Gross Asset Values (GAVs) of connection assets for illustrative purposes are given in Appendix 1.

1.4. Transmission Owner Revenue Restriction

Special Condition 2.1 of SPT's Transmission Licence establishes the charge restriction that determines the Allowed TO Revenue (ARt) that SPT may earn from its TO services: ARt = ADJRt* + Kt + LARt.

WHERE	
AR_t	means the amount of Allowed Transmission Owner Revenue in Relevant Year t
$ADJR_t$*	means adjusted revenue published by the Authority pursuant to Part B of Special Condition 8.2 (Annual Iteration Process for the ET2 Price Control Financial Model) prior to the start of Regulatory Year t
K_t	means the K correction term and is derived in accordance with Part H of Special Condition 2.1
LAR_t	is derived in accordance with Special Condition 7.1 (Legacy adjustments to revenue).

As part of the information provision for the charge setting process, NESO and SPT shall agree; (a) the Price indexation to apply to the Gross Asset Values of each Connection Asset (where applicable) and; (b) the Rate of Return to apply to the Net Asset Values of all the TO's Connection Assets. The Rate of Return applicable to Connection Assets shall be the real pre-tax Weighted Average Cost of Capital.

Special Licence Condition 9.11 of SPT's Transmission Licence established the charge restriction that determines SPT's charges for the provision of transmission services TSPt to NESO.

Therefore total SPT Transmission Charges in a given year are equal to: TSPt+ DRSt

WHERE	
TSP_t	An amount no more than AR_t, as calculated in accordance with Special Condition 2.1 (Revenue restriction).
DRSt	Directly Remunerated Services Charges for Pre and Post Vesting Connection Assets

The methods by which these are calculated are detailed in Part 1 (General System charges) and Part 2 (Site Specific charges) of this statement.

1.5. Price Indexation

For General System charges, Price Indexation (PIt) will be adjusted each year in accordance with the rules set out in SPT's Transmission Licence as defined in Special Condition 2.1.

For Site Specific charges, Price Indexation (TOPIt) will be adjusted each year in accordance with the rules set out in the CUSC in section 14.3.6.

1.6. Directly Remunerated Services

Special Condition 9.7 of SPT's Transmission Licence establishes charging provisions for directly remunerated services. In addition to the charges arising from SPT's charges for the provision of

transmission services (Allowed TO Revenue) to NESO referred to as Other Charges, SPT will also invoice directly remunerated services charges monthly to NESO for Pre and Post-Vesting connection assets, including asset replacement.

These directly remunerated services charges consist of capital charges only as all operation and maintenance charges are recovered under Allowed TO Revenue.

Part 1

2. General System Charge

The General System Charge recovers all costs for providing, replacing and/or refurbishing SPT's transmission infrastructure assets. These activities are undertaken to the standards prescribed by SPT's Licence, to provide the capability to allow the flow of bulk transfers of power between connection sites and to provide transmission system security.

The General System Charge is set to recover the Allowed TO Revenue, taking account of any connections charges, if any, which are remunerated under Special Condition 2.1.

No service provided by SPT shall be treated as a directly remunerated service in so far as it relates to the provision of services remunerated under the General System Charge as set out in the STC and associated procedures.

Ofgem's 9th July 2020 decision to approve '**PM0119: TNUoS Revenue Collection Risk Transfer**', and the subsequent implementation of this in July 2021 means SPT is now exposed to the cashflow risk of TNUoS revenue collection. In accordance with the STC and associated procedures, NESO report revenue collection to inform the monthly values SPT will invoice to NESO, reflecting TNUoS revenue collection for the year to date.

Part 2

3. Site Specific Charges

Site Specific Charges are set to recover costs associated with connection assets specified in the TO construction agreement and/or the connection site specification for the relevant connection site.

In accordance with the STC, the capital costs of providing new connections or modifying existing connections to SPT's transmission system will be recovered from NESO.

3.1. Capital Charges

Capital charges reflect the cost of purchase and installation of connection assets comprises two parts:

Depreciation

This is the charge a fixed fraction of the Gross Asset Value, for example 1/40th of a 40-year book life asset charged each year for 40 years.

The Gross Asset Value is adjusted each year by the Price Indexation (TOPIt)

Rate of Return (WACC)

The capital employed by SPT earns a pre-tax Weighted Average Cost of Capital (WACC) of 4.30% upon TOPI indexed assets. The rates of return are subject to code governance and may change over time.

The components of the WACC are as specified in the latest published Ofgem Price Control Financial Model (PCFM) relating to current charging year.

The rate of return is applied to the inflated Net Asset Value, i.e. the amount of the original Gross Asset Value that has not yet been depreciated or otherwise reduced by capital contributions from the NESO.

3.2. Non-Capital Charges

Non-capital charges cover maintenance costs applicable to connection assets provided by the NESO and also include:

- A proportion of costs of operating SPT's business;
- Total site care, covering site safety, security and environmental protection, local liaison, notably with statutory authorities, wayleave grantors and members of the public;
- Payment of local authority charges, electricity, water and telephone charges associated with the connection site; and
- Standby and out-of-hours service throughout the year.

These costs are charged across two component charges:

Site Specific Maintenance (SSM)

The current SSM Factor is 0.35%

This is a percentage factor applied to the CPIH inflated Gross Asset Values of the connection assets to recover a fair proportion of SPT's maintenance costs. The SSM factor is derived in accordance with the STC and is based on the cost of SPT planned maintenance of connection assets divided by SPT's total connection asset Gross Asset Value. For the avoidance of doubt, there will be no reconciliation of the Site Specific Maintenance charge.

Transmission Running Costs (TRC)

The Current TRC Factor is 1.06%

The TRC factor is calculated at the beginning of each price control to reflect the appropriate amount of other TRC (rates, operation, indirect overheads) incurred by the transmission licensees attributable to connection assets. The TRC factor is calculated by the NESO by taking a proportion of the forecast TRC for the transmission licensees (based upon operational expenditure figures from the latest price control) that corresponds with the proportion of the transmission licencees' total connection assets as a function of their total business GAVs. This cost factor is therefore expressed as a percentage of an asset's GAV. For the avoidance of doubt, there will be no reconciliation of the Transmission Running Cost charge.

3.3. Basic Annual Charge Calculation

Annual Charges, for a given year n from the date of connection asset commissioning, are calculated as follows:

Annual Connection Chargen =

Dn (GAVn) + RoRn (NAVn)

Where		
Gross Asset Value$_n$ (GAV$_n$)[1]	=	GAV for year n adjusted by Price Indexation (TOPI$_t$)
Depreciation Rate (D$_n$)	=	GAV$_n$ / asset book life
Net Asset Value$_n$ (NAV$_n$)[2]	=	NSV of the relevant assets of financial year n
Rate of Return	=	Rate of Return (4.30%)

The depreciation period of Post Vesting connection assets may, by mutual agreement, be less than 40 years but not more than 40 years.

3.4. Calculation of the Gross Asset Value (GAV) and Net Asset Value (NAV)

The GAV represents the initial total cost of a connection asset to SPT. For a new connection asset, it will be the costs incurred by SPT in the provision of that connection asset. Typically, the GAV is made up of the following components:

- Construction costs – costs of bought in services
- SPT Engineering – Allocated equipment and direct engineering costs
- Interest During Construction – Financing Cost

The GAV of an asset is re-valued each year normally using the Price Indexation .

i.e. GAVn = GAVn-1 x TOPIn

[1] Indexed annually by Price Indexation as set out in CUSC 14.3.6

[2] NAV$_n$ is based on a revalued GAV$_n$

Where TOPIn = Price Indexation adjusted in accordance with the rules as set out in CUSC section 14.3.6.

The NAV of each asset for year n, used for charge calculation, is the average (mid-year) depreciated GAV of the asset and is calculated as shown below:

$$NAV_n = GAV_n \times \frac{(\text{Depreciation Period} - 0.5 - \text{Asset Age})}{\text{Depreciation Period}}$$

3.5. Payment Options

SPT will recover the capital cost of constructing or modifying connection assets from NESO by either:

- Full capital contribution charge
- Annual capital charge, over the lifetime of the assets, or;
- A partial capital contribution charge with reduced annual charge.

It should also be noted that all offers made by SPT, in response to a new or modified connection application by NESO, will initially be made on an indicative basis. Should a firm price offer be requested, a fixed connection charge will only be provided at a later date after tender returns for major plant items and other material expenditure have been received.

The following two options are SPT's standard basis of annual charging:

3.5.1. Annual Charges, Indicative Prices

The Annual Connection Charges are based upon forecast Gross Asset Values for the cost of construction up to the requested connection date. Calculations are based on the planned investment profile. This is called Indicative Charging.

After completion of construction and delivery of the connection, the actual out-turned costs of construction will be assessed and revised Gross Asset Values and revised Annual Connection Charges advised to NESO. A reconciling adjustment will be made as necessary, in the form of invoicing or credit noting of NESO, in respect of the difference between Indicative Charges already levied to NESO compared to the revised Annual Charges that would have been levied based on actual out-turned Gross Asset Values along with any relevant interest.

3.5.2. Annual Charges, Firm Price

The Connection Charge is based on a firm price estimate of the costs of the connection works, and is calculated as in Option 1, except that the firm price will include a risk margin to allow for possible variances above the estimate, which might occur for any reason.

Due to the current long lead times for new connections (e.g. the transmission outage programme, and the expected time to obtain planning Consents), it may not be feasible for SPT to offer firm prices and SPT reserve the right to decline to offer terms on this basis.

3.6. Capital Contribution

NESO may elect to pay in advance for the connection assets required for a connection and can do so for either an Indicative Price offer or a Firm Price offer.

For connections where NESO elects to pay for the installation costs either partially or in full, NESO will make milestone payments, based on fair and reasonable estimate of the value of work to be done at each stage.

The final payment will be made by NESO, following a reconciliation of the actual costs and financing costs incurred in completing the connection assets, and paid in advance of commissioning the connection. The capital contribution will comprise construction costs plus SPT's rate of return.

The Gross Asset Value to be recovered through depreciation and the Net Asset Value will be reduced by applying the calculated Partial Capital Contribution Factor (PCCF) previously described.

Where NESO pays fully in advance for the connection assets and the related rate of return, the depreciation and rate of return components within the annual charge will be zero.

Capital contributions may also be made after commissioning in subsequent years. For a capital contribution to take account at the start of the relevant charging year n, NESO may, at most once per year, make a full or partial capital contribution of at least 10% of the NAV prevailing as of 31st March in year n-1. NESO shall notify SPT of the capital contribution amount no later than 1 September in year n-1, and pay the capital contribution 45 days prior to the start of the charging year n which will be applied to the NAV prevailing at the start of year n.

Part 3

4. Other Charges

Over and above the General System Charge and Site Specific Charges described in this statement, SPT may incur other costs, which include but are not limited to:

- Costs associated with processing applications for connection to the system
- One-off Costs whether associated with connections assets or infrastructure
- One-off charge associated with User instigated delays to connections assets or infrastructure works, so-called “Delay Charges”
- One-off charges associated with delivery of connection assets or infrastructure at a User’s request earlier than the timeframe in which SPT would efficiently choose to deliver, so-called “Advanced Delivery Charges”

Any costs incurred by SPT as a result of NESO’s requirements that are not otherwise recoverable through General System Charge or Site Specific Charges will be charged to NESO according to the principles which follow.

4.1. Application Fees

Application fees are payable in respect of NESO applications received for new or modified connections to SPT’s transmission system. The application fee is intended to cover engineering costs and other expenses involved in preparing an offer of terms, and are dependent upon the size, type and location of the User’s scheme as shown on the map in Appendix 2.

With the exception of offshore applications, NESO can elect to pay a fixed price application fee in respect of their application. Alternatively, onshore applications can elect to pay a variable application fee, which is based on the actual costs incurred.

The fixed price fees for applications are detailed in Appendix 2.

If NESO chooses to pay a variable application fee, SPT will, following completion of the offer, charge NESO based on the SPT charge-out rates detailed in Appendix 3.

Should NESO notify SPT of changes in the planning assumptions after receipt of an application fee, SPT may levy an additional charge.

In exceptional circumstances where NESO has requested an application which involves significant costs over and above normally expected (e.g. substantial system studies, specialist surveys, investigations) to process an offer of terms then SPT reserves the right to vary the applicable fixed fee quoted in Table A, B, C and D. Under these circumstances, SPT will following discussion with NESO, advise the appropriate applicable fee.

4.2. Feasibility Studies

We understand that our customers may have questions that go beyond what we are reasonably able to provide at our pre application engagement (PACE) meetings. This information can be provided to you via a feasibility study. The scope of the questions is determined by the customer, and is ultimately paid by them, subject to the following process.

If NESO requests a feasibility study in connection with alterations to or extension of the SPT network a fee is payable based on an advance of SPT engineering and out-of-pocket expenses. The fee payable by NESO will vary according to the size of the study and the amount of work involved. Where actual

engineering and out-of-pocket expenses exceed the advance, SPT will issue an invoice for the excess. Conversely, where SPT does not use the whole of the advance, the balance will be refunded.

A schedule of charge-out rates for different classes of SPT staff is attached at Appendix 3.

4.3. One-Off Works and Additional Works Requested

To provide or modify a connection, SPT may need to carry out works on the transmission system, which although directly attributable to the connection may not give rise to additional connection assets.

As a result of User requirements SPT may have to install connection or infrastructure assets that differ or are enhanced above minimum standard scheme design requirements.

SPT may also incur,

- revenue expense, including additional maintenance costs where additional assets are installed, or
- the cost of writing off asset value

Additionally, charges that fall within the principles laid out below are defined as “one-off” costs:

- Where a cost cannot be capitalised into either a connection or infrastructure asset, typically a revenue cost

- Where a non-standard incremental cost is incurred as a result of a User's request, irrespective of whether the cost can be capitalised

- Where additional incremental costs are incurred as a result of the User’s request to acceleration works

- Termination Charges associated with the write-off of connection assets at the connection site.

  Write-Off Charge = 100% of remaining NAV of redundant assets

Where these costs cannot be justified by planning standards and are incurred as a direct result of NESO’s construction application, they will be included in the TO Construction Offer as one-off costs and charged accordingly.

The basis of charging for any additional maintenance costs arising from additional user requested connection and/or infrastructure assets will be set out in the TO Construction Offer.

The incremental costs of additional infrastructure related works over and above the minimum scheme required to connect a User will be recovered as a One-Off Charge.

Requests for diversions of transmission lines or cables, in connection with an application for a new or modified connection, including removal or relocation of towers will be treated as one-off costs.

The costs of abortive transmission construction works will be recovered as a one-off cost as set out in this statement

Any costs arising as a result of a User requesting a delay to the SPT construction works will be recovered as a one-off cost.

The costs of Category 1 and 3 inter-tripping schemes for generator connections (as defined in the Grid Code and the CUSC) will be recovered as one-off costs.[3] The Calculation of One-Off Charges is as follows:

One-Off Charge = (CC=EG) x (1 +Return %) + IDC

Where	
CC	Construction Costs
EG	Engineering Charge x Job Hours
Return	6%
IDC	Interest During Construction

4.4. Delay Charges

Where a User's Requests a change to their completion date for connection, and costs arise in comparison to our otherwise efficient delivery programme, a "Delay" Charge may apply in respect of these inefficient costs.

The "Delay" charge reflects the incremental cost incurred as a result of a User's request irrespective of whether the cost can be capitalised.

Delay costs will normally comprise;

- the additional financing of infrastructure asset construction, over the longer time period to the revised Charging Date,
- incremental costs including, for example, expenditure related to de-mobilisation and re-mobilisation, additional consents, re-working engineering, re-design, abortive costs etc.

Whilst a User can request changes at any point in a programme it should be recognised that any charges, especially those related to transmission investment, can be more effectively mitigated if SPT is informed of the required change as soon as possible, enabling SPT to minimise any increase in likely costs arising from the User requested delay.

The Delay charges will be detailed in the TO Construction Offer to NESO for connection for the User.

4.5. Advanced Delivery Charges

SPT deliver works a short period ahead of full use to allow reasonable time for User commissioning. Where Users, via NESO, require works to be delivered far earlier than SPT would otherwise efficiently deliver them for the required Charging Date, an "Advanced Delivery" charge may apply in respect of consequential inefficient costs.

[3] Category 1 schemes are those which have been initiated by the User, either as a result of a variation to the design or to allow early connection of generation, which would otherwise be delayed until infrastructure works can be completed. Category 3 are schemes which the User has elected as an alternative to reinforcement of a distribution network affected by the generation connection.

The “Advanced Delivery” charge reflects the incremental cost incurred as a result of a User’s request irrespective of whether the cost can be capitalised.

Advanced Delivery costs will normally comprise;

- a charge based on the Gross Asset Value of assets that are planned to be completed at the User’s request ahead of required Charging Date, reflecting the depreciation and rate of return. The charges will be based on the relevant asset’s life, its gross asset value, the duration between the User’s earlier required date and the Charging Date and SPT’s rate of return.

The gross asset values of assets to be constructed earlier, may also incorporate;

- increases in costs of building the assets at an earlier or accelerated rate,
- changes to incremental costs include, for example, expenditure due to changes in resource mobilisation, additional consents, re-working engineering, re-design, abortive costs etc.

The Advanced Delivery charges will be detailed in the TO Construction offer to NESO for connection for the User.

4.6. Transmission Charges

Arrangements may be agreed between SPT and NESO to pay for One-off works over a longer period. If one-off works are paid over a longer period, they are termed a Transmission Charge.

Transmission Charges are usually a depreciating finance charge or annuity based charge with a rate of return element and a maintenance element and may include agreement on a schedule of termination payments if the agreement is terminated before the end of the agreed charge recovery period. The charge is usually inflated annually by the same TOPI figure that is used to inflate GAVs, though NESO can request alternative indexation methods.

4.7. Miscellaneous Site Specific Charges

Other contract specific charges may be payable by the User which will be set out in the TO Construction Offer and or STC where appropriate.

Where a direct connection to SPT’s transmission system is not the most economic scheme and the User maintains their request for a transmission connection, the full costs of providing the transmission connection will be charged as a miscellaneous site specific charge.

4.8. Abortive Works Charges

If as a result of a modification application, received after commencement of the transmission construction works, SPT is required to make amendment to the transmission construction works and SPT has previously carried out some or all of the said works which are now no longer required (“Abortive Works”) NESO shall be required to make a payment to SPT in respect of all fees, expenses and costs of whatever nature reasonably and properly incurred or due by SPT in respect of the Abortive Works for which SPT is responsible or has or may otherwise become liable in respect of the Abortive Works.

4.9. Contestable Connection Works

Users may also elect to carry out certain contestable areas of connection works. Such arrangements would be subject to the assets being designed and installed to SPT’s technical standards to ensure the ongoing security and operability of the transmission system. SPT may also require other

agreements and indemnities to ensure that there are no adverse consequences for other Users of the transmission system as a result of the User's decision to "self-build".

Should a User wish to take advantage of the self–build option, this should be made clear in their formal application to NESO. SPT are not obliged to accept an application made on this basis and our agreement is subject to diligence and our assessment of impact on wider network operability or connections.

The scope of contestable works would be agreed before the application is deemed competent. Infrastructure works are non-contestable to avoid any potential impact on other Users.

SPT will charge NESO on an indicative basis for any non-contestable items such as design approval, inspection and testing of the contestable works to establish that the assets are suitable for adoption by SPT.

SPT will agree, via NESO, the indicative Gross Asset Value of the User's adoptable self-build connection assets inclusive of SPT's forecast project management and financing costs to facilitate the User's self-build. This will be documented in the relevant construction agreement. SPT will, via NESO, agree the out-turned Gross Asset Value of the adoptable assets, including SPT's project management and financing costs to facilitate User self-build, following commissioning and SPT will revise its connection charges accordingly.

Subject to these arrangements and that all relevant SPT requirements and standards have demonstrably been met (including for construction, technical, environmental and operational standards) SPT will adopt the self-build assets at the relevant Gross Asset Value and assume responsibility for their ongoing maintenance. SPT will levy annual connection charges for the adopted assets.

The TO construction agreement would contain an estimated GAV for the new or replacement connection assets for charging purposes. The GAV would be estimated by SPT as though it was carrying out the full works.

Part 4

5. Outage Service Charges

Where pre-arranged outages are rearranged at NESO's request or where NESO require additional services for planned or unplanned outages over and above the normal service provided under General System Charge, NESO will be liable for outage service charges. These charges reflect the costs incurred by SPT in accommodating NESO's request. They include, but are not limited to:

- Costs (including where appropriate, liquidated damages) of standing down contractors until 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 such as to reduce NESO's costs in maintaining system security. Cost will be based on overtime hours worked on the particular outage.
- Costs of installing additional equipment, such as bypass arrangements.

Where an outage is rearranged at NESO's request, SPT will use all reasonable endeavours to minimise the charge to NESO by redeploying staff onto other work.

Charge-out rates to assess indicative costs for overtime working are given at Appendix 3.

5.1. De-Energisation and Disconnection

Where NESO 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 SPT. SPT will arrange to de-energise the supply and read the metering equipment, where appropriate, for billing purposes. An additional charge will be made for this service if undertaken outside normal working hours.

Temporary de-energisation (and subsequent re-energisation) resulting from the failure by NESO to comply with the terms of their relevant agreement, or carried out at the request of NESO will be at the expense of NESO.

Where it becomes necessary to disconnect a User (at the request of NESO) that is to have SPT's equipment removed from site, for any reason, any payments outstanding in first providing that connection will become due forthwith.

If NESO requests disconnection, this should be requested in writing. On receipt of such a request SPT will take all reasonable steps to remove the equipment in accordance with the NESO's reasonable requirements. SPT should be consulted at an early stage and a programme for the removal of equipment will be subject to individual assessment.

On termination SPT retains the right to remove its equipment. Where it is cost effective to do so SPT will remove such equipment, and no charge will be made to NESO. For assets where it is not cost effective to recover (e.g. buried cables) will normally be made safe and left on site, but if NESO requires SPT to remove them, the cost of removal, will be payable by NESO. All such equipment will remain the property of SPT until otherwise agreed in writing with SPT.

5.2. Termination Charges

5.2.1. Early Termination of Commissioned Connections

Costs of new connections will be fully recoverable from NESO in all circumstances, including the liability to pay a termination amount where a connection agreement is terminated by NESO.

If a connection charge is paid by annual charges and NESO gives notice of termination of the connection agreement prior to the expiry of the economic life of the connection assets, SPT will require NESO to pay a Termination Amount. This will recover the Net Asset Value (NAV) of the connection assets plus the cost of removing the connection assets if required.

The Termination Amount will be calculated as follows:

NESO will be liable to pay an amount equal to the NAV of such connection assets as at the end of the financial year in which termination or modification occurs, plus:

- The reasonable costs of removing such connection assets. These costs being inclusive of the costs of making good the condition of the connection site; and
- If a connection asset is terminated before the end of a financial year, the connection charges for the full year remains payable.

Reasonable costs of removal for terminated connection assets and making good the condition of the site include but are not limited to:

- modifications to protection systems should a circuit breaker be decommissioned as a result of a User leaving a site, and
- civil engineering works associated with restoring ground levels as a result of removing connection assets.

The calculation of termination amounts for financial year n is as follows:

Termination Chargen = Cn + (NAVn x PCCF) + R

Where	
C_n	Outstanding Connection Charge for year n
NAV_n	NAV of connection assets at 31st March of financial year n
PCCF	A factor applied to the GAV to reflect any capital contribution payment made by NESO to SPT for th connection assets deployed, being calculated as follows: $PCCF = \frac{(GAV_n - \text{Capital Contribution Payments from NESO})}{GAV_n}$
R	Reasonable costs of removal of redundant connection assets and making good

5.2.2. Re-Use of Connection Assets after Early Termination

Should the connection assets be re-used, such that SPT receives connection charges as a result of their use, part of the termination charge will be refunded to NESO. The amount refunded will depend on the proportional extent to which the original income stream is replaced. The refund will be based on the NAV at the time the asset is brought back into use, less the cost of maintaining and storing the asset whilst out of service.

Should a period of more than 5 years elapse before re-use of the terminated connection assets, a partial refund of the termination payment will be made provided clear financial evidence of payment of such termination amount is provided by NESO.

5.2.3. Early Termination of Transmission Reinforcement Works

When a TO construction agreement for a connection is terminated by NESO prior to completion of the works then, in addition to the costs incurred at the time of termination for connection assets, NESO must also pay, to SPT, the costs incurred at the time of termination for any transmission works which were required as a direct consequence of the NESO Construction Application.

5.2.4. Early Replacement

If SPT considers that connection assets require to be replaced prior to the end of their normal economic lifetime, the replacement costs will be borne by SPT within the remaining economic life of the original connection assets. On expiry of the expected lifetime of the original connection assets, the connection charge will be recalculated taking account of the NAV of the replacement connection assets, together with the normal provision for depreciation.

5.2.5. Refurbishment of Connection Assets

Where connection assets have reached the end of their economic life and the asset life has been extended through refurbishment works, a new Gross Asset Value, will be agreed between NGET, NESO and the User. The new Gross Asset Value will take into account an appropriate depreciation period reflecting the anticipated remaining life of the refurbished asset(s).

5.2.6. Transmission Operation & Maintenance Costs

Operating and Maintenance charges for all transmission assets will be collected through General System Charges and are not addressed in this statement.

Operation and Maintenance costs related to connection assets, one-off works and transmission charged one-off works are recovered through the Site-Specific Maintenance (SSM) factor and the Transmission Running Cost (TRC) factor in the non-capital component of the connection charge.

5.2.7. Charges for Land Purchase, Consents and Wayleaves

Any capital costs incurred in providing a new or modified connection relating to planning and other statutory Consents; all wayleaves, easements, servitude rights, rights over or interests in land or any other consent; and permission of any kind as required for the construction of the connection shall be paid to SPT by NESO. These costs will cover all of SPT's engineering charges and out-of-pocket expenses incurred.

These out-of-pocket expenses may include planning inquiries or appeals; the capital costs together with reasonable legal and surveyors' costs of landowners or occupiers in acquiring permanent easements, or other rights over land, in respect of any electric line or underground cable forming part of the new transmission connection.

Charges for legal costs associated with land purchase or access Consents would be due under the TO construction agreement for connection applications. Costs of this work will be charged in accordance with the charge-out rates in Appendix 3.

Any capital costs incurred by SPT in acquiring land, shall generally be treated according to their categorisation as either connection or infrastructure works and recovered through the TO construction agreement or through General System Charges respectively.

5.2.8. Civil Engineering Costs of Connection Sites

Where a substation site may accommodate infrastructure assets in one area of the building or outdoor compound, and sole-use connection assets for one or more Users in another area of the same substation site, the civil engineering costs including that share of the costs of preparing a level, drained site for the accommodation of the sole-use connection assets would be included in the connection costs. This share of civil engineering costs will be allocated based on the "substation footprint" of the sole-use connection assets at the substation site.

5.2.9. Energy Metering Systems

The charges to NESO for the provision of metering systems will be on a similar basis as other SPT connection assets. The electronic components of the energy metering system have a 15-year replacement and depreciation period whilst the non-electronic components normally retain a 40-year replacement and depreciation period.

Appendix 1

6. Indicative Connection Asset Charges

This schedule provides an indication of typical costs, exclusive of VAT, for additions to SPT's transmission system. The costs shown are current at the time of publication only and are subject to change without notice and may also vary depending upon system configuration, Consents, site conditions etc.

Illustrative Connection Asset Gross Asset Values				
Description	£k			
	400kV	275kV	132kV	33kV
	GAV	GAV	GAV	GAV
Single Busbar Bay	2,811	2,392	1,944	=
Double Busbar Bay	3,512	3,011	2,322	=
Single Circuit Trident £/km	=	=	703	=
Double Circuit Steel Tower £/km	2,692		1,873	=
Transformer cables, per 100m	3,406	2,423	1,499	131
(incl Sealing Ends)	(360MVA)	(240MVA)	(180MVA)	(60MVA)
400/132kV 360MVA Transformer	9,124	=	=	=
275/132kV 240MVA Transformer	=	6,911	=	=
275/33kV 120MVA Transformer	=	6,090	=	=
132/33kV 90MVA Transformer	=	=	5,537	=
132/33kV 60MVA Transformer	=	=	4,892	=

Factors which can affect these charges are:

- Standards governing the system,
- Length of cable/line required from existing system,
- Exit Point/ Entry Point capacity requirements in relation to available capacity of existing network, including the age of the assets and the condition of the network,
- Whether any extension or reinforcement of the existing network is by underground cable or overhead lines,
- Type of ground requiring excavation; type and extent of reinstatement necessary, including New Roads and Street Works Act requirements, need for road crossings,
- Generation capacity characteristics,
- Availability of suitable substation sites including any necessary planning Consents,
- Exit Point demand and characteristics,
- Special security of supply requirements Circuit routing difficulties, substation – greater or less than SPT licence standards,

- Availability of wayleaves/easements for Necessity of overtime working cables and lines including planning Consents,
- Circuit routing difficulties, substation site conditions and access to routes and sites, and
- Necessity of overtime working

NOTES ON ASSETS	
Busbar Bays - Assumptions	Plant - the bay is considered from SPT standard bay drawings and tendered prices provided for protection, cabling, auxiliary systems, earthing are based on various assumptions Civil - Normal base sizes & dimensions of concrete footings, good ground condition, includes landscaping but access works and drainage costs elsewhere
Busbar Bays - Exclusions	Plant - Overall Substation Protection, Main Control and SCADA systems. Auxiliary supplies such as AC/DC system and electrical design costs.
Transformer Cables - Assumptions	Assumptions - All based on 1 circuit of 1 cable per phase, 100m straight, flat and unimpeded route • 33kV cables are based upon 60MVA transformer connection installed within the substation compound • Costs for transformer assumes that that the full cable is within the substation compound • XLPE Lead/Al sheathed cable supply, install, commission with High Voltage AC & Sheath Testing • Earth Continuity Cable (ECC) & Link Boxes supply, installation and connection included • DTS c/w terminations into Fibre Optic Terminal Boxes on AIS support – on 275kV only • Cable installed in ducts/trenching • Connection & Modifications to earth mat • P&C Duct (1x90mm) included (Max 100m excluding cable(s)) Excavation waste disposal, site establishment/prelims, security & access costs included • Standalone project(s) with its own design/project team • Costs do not allow for any small quantity/MQQ surcharge that may be levied by cable supplier • Others – VAT and inflation Please note that the cables are based on 100m runs which is in contrast to other TOs where costs are on a per km basis.
Transformer - Assumptions	1) Costs include supply & installation of: • Auto/Grid Transformer • Auxiliary/Earthing Transformer (where applicable) • Neutral Earthing Resistor (where applicable) • HV Disconnector Bay (c/w associated equipment)

	• LV Circuit Breaker (c/w associated equipment) • Protection Upgrade Modifications including common protection items LV Cabling Works (where applicable)
	2) Civil Works to include the following: • Transformer Plinth/Bund • Disconnector Bay Civils • Earthing Upgrade Works
Transformer - Exclusions	Plant - Bay protection, control and SCADA system, (considered under part of the Busbar Bay costs) auxiliary supplies such as AC/DC system (considered under part of the Busbar Bay Costs) Civil - Piling Others - VAT and Inflation
Overhead Line Assumptions	Costs assume good ground conditions Unit costs are based on average costs of conductors commonly used in SPT The unit costs are calculated on a 10km of overhead line Costs for crossing other utilities rivers, roads and railway lines are excluded

6.1. List of Abnormal Services

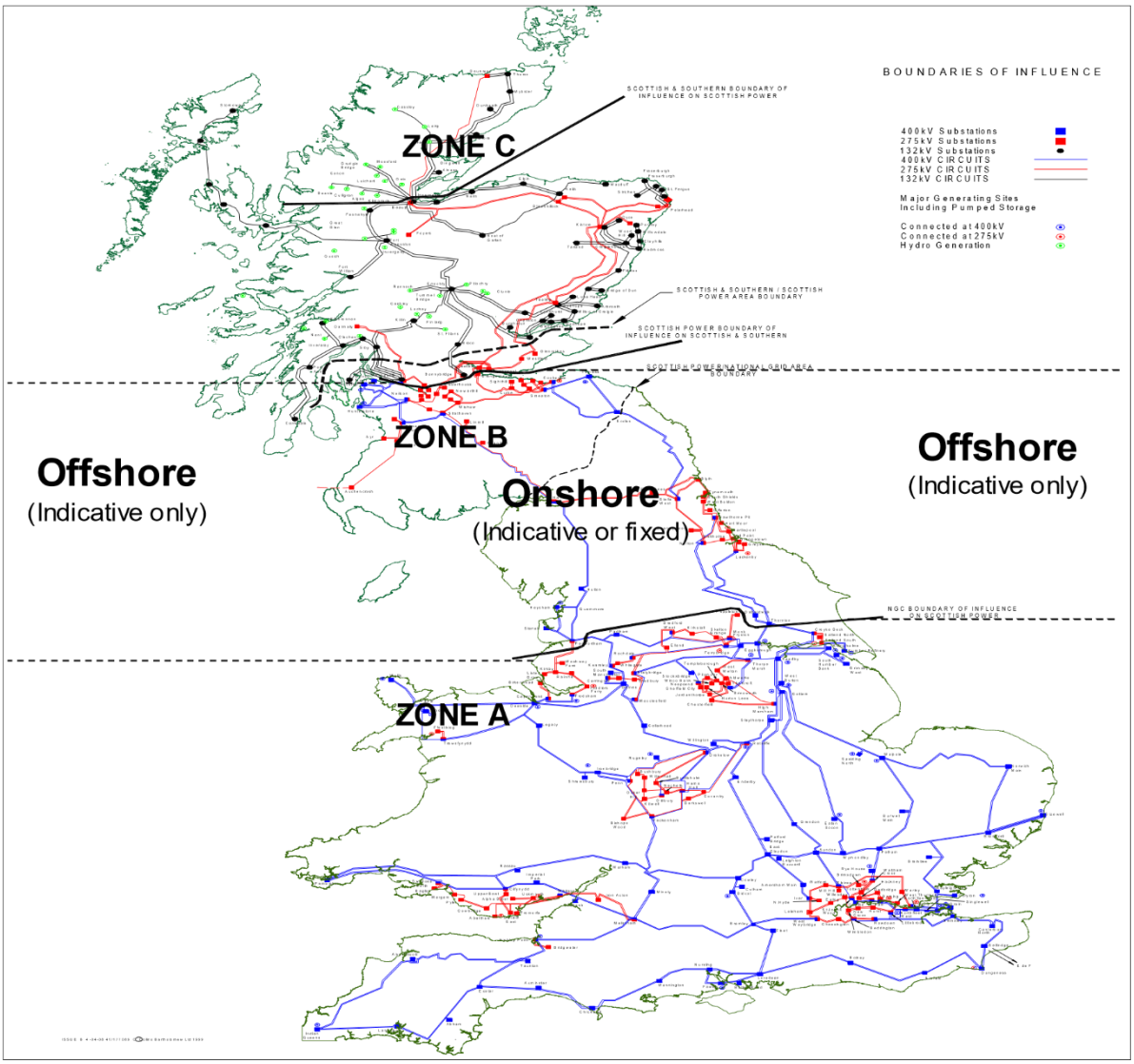
The following is an Illustrative list of abnormal services which may be reflected in the connection charges:

- progression of work required other than in an orderly fashion in accordance with normal engineering policies and practices thus imposing additional costs;
- transformer/Substations sites not provided to SPT in suitable locations at normal prices or rents, taking account of both cable access and access by personnel;
- loads with abnormal characteristics, which affect the security standards of service on the system, for example, arc welders and large motors.

Appendix 2

7. Application Fees

Transmission Licensees' Boundaries of Influence Map



Fees will be applied depending on which zone the connection will be constructed. The boundaries of influence are set out in detail in the STC - Criteria for Assessing Those Transmission Systems Affected by a Construction Project,

All fees subject to other additional costs covering any other special design requirements e.g. subsea survey, advance wayleaving etc. being payable or underwritten by NESO.

All fees are subject to the addition of VAT.

No application fee is payable for any SPT initiated works.

The MW (mega-watt) value is the final value applied for.

7.1. SPT Application Fees

Application Type	MW	Host TO	Affected TO
New Onshore Application / TEC Change	<100	£39,650	£9,070
	100 – 249	£39,650	£9,070
	250 - 1800	£39,650	£17,000
	>1800	£96,280	£22,660
New Onshore Supply Point	<=100	£33,980	£13,600
	>100	£50,980	£28,320
New Offshore Application – (Indicative Fee Only)		£45,320	£39,650
Statement of Works		£580	£580
Statement of Works Project Progression		£6,240	£2,280
New Onshore Application BEGA/BELLA		£15,300	£3,980
Storage		£39,650	£17,000

Application Modifcation Rates	% Rate
Modification Application (Exit)	75%
Offshore Modification Application	75%
Onshore Modification Application	75%

Other Application Types	Charges
Interconnectors	£39,650
Reactive Only Service Provider	£39,650
Request for STTEC	N/A
Request for LDTEC	N/A
Suppliers (UoS)	N/A
TEC Exchange Request	N/A

Connections Reform

The application fees mentioned above are subject to modification contingent upon OFGEM's determinations concerning the ongoing TM04+ Connections Reform proposals. If necessary, a revised Charging Statement will be issued.

7.2. Statement of Works

In response to any Statement of Works request, SPT will provide a Statement of Works response which will inform only whether there are any transmission system works required. No formal terms of offer will be provided.

In the event the Statement of Works response provided by SPT to NESO show that transmission works are required by the embedded distribution connection, NESO will be required to submit a formal Modification Application.

Appendix 3

8. Charge-Out Rates

Grade	Rate (£/Day)
Senior Management, Legal I	1,110
Department Manager	950
Senior Members of Staff (Engineering; Commercial)	810
Standard (Engineering; Commercial)	670

All fees are subject to the addition of VAT.

Glossary of Terms

9. Glossary of Terms

Term	Definition
Affected TO	A TO who owns or operates a transmission system which is electrically impacted by a User's connection to a host TO's transmission system.
Allowed TO Revenue	As set out in Special Condition 2.1 of the TO's Transmission Licence
Authority	The Gas and Electricity Markets Authority (GEMA) established under Section 1 of the Utilities Act 20
BETTA	British Electricity Trading and Transmission Arrangements
BETTA Go-Live Date	1 April 2005
Bilateral Connection Agreement	As defined in Section D, Part One, sub-paragraph 2.6.1 of the STC
Consents	In relation to any transmission system and or connection works: - a) all such planning (including Public Inquiry) and other statutory consents; and b) all wayleaves, easements, rights over or interests in land or any other consent; or for commencement and carrying on of any activity proposed to be undertaken at or from such works when completed c) permission of any kind as shall be necessary for the construction of the works
CUSC	Connection and use of System Code
Entry Point	A point of connection at which electricity may be exported from a User's Entry Point installation onto the Transmission System i.e. Generation
Exit Point	A point of connection at which electricity may flow from the Transmission System to the User's installation, i.e. Demand
Host TO	The TO which will electrically connect the User to a Host TO transmission system which is owned or operated by that TO
NESO	National Energy System Operator Limited
Pre BETTA	Before 1 April 2005
Pre-Vesting	Means on or before 31 March 1990
Price Control	As set out in the TO's Licence
Post Vesting	Means after 31 March 1990
Price Indexation	PIt set out in Special Condition 2.1 of the TO's Transmission Licence. TOPIt set out in the CUSC in section 14.3.6.
SO	System Operator. This being NESO.
STC	The System Operator -Transmission Owner Code.
TO	An onshore or offshore Transmission Owner. This being SP Transmission plc.

Transmission Interface Site	The site at which the Transmission Interface Point is located.
Transmission Interface Point	Means the electrical point of connection between the Offshore Transmission System and an Onshore Transmission System.
Transmission Licence	Transmission Licence granted or treated as granted under section 6(1)(b) of the Act.
Transmission Voltage	In Scotland usually voltages at 132kV or above.
User	A generation or demand customer connected to SPT's transmission system and party to NESO's bilateral agreement(s).

9.1. Revision History

Statement Publication	Modifications
1st of April 2020	Revised layout and formatting, some new sections (highlighted), updates to Indicative Connection Asset Charges, Application Fees and Charge Out Rates.
1st of April 2021	Revisions to take account of RIIO T2 Licence Changes and licence condition references. Revisions to Application Fees and Charge Out Rates to reflect agreed approach developed during 2020 for onshore TOs and NGESO. Updates to Unit Costs following a rebasing exercise against SPT Manual of Costs. General housekeeping review of content and terminology.
1st of April 2023	Revised layout and formatting, updates to Indicative Connection Asset Charges, Application Fees and Charge Out Rates. General housekeeping review of content and terminology.
1st of April 2024	Updates to Indicative Connection Asset Charges, Application Fees and Charge Out Rates. References of RPI updated to CPIH. Rate of return updated to 2024/25 value. General housekeeping review of content and terminology.
1st of April 2025	Updates to Indicative Connection Asset Charges, Application Fees and Charge Out Rates. Rate of return updated to 2025/2026 values. All references of National Grid Electricity System Operator (NGESO) replaced by National Energy System Operator (NESO). References of CPIH updated to TOPI. Caveat added to page 34 in reference to OFGEM's pending decision on TM04+. General housekeeping review of content and terminology.