Electricity North West Limited

Use of System Charging Statement

NOTICE OF CHARGES

Effective from 1st April 2022

Version 2.0

Version Control

Version	Date	Description of version and any changes made
1.0	23 December 2020	Version issued with final charges for 2022-23.
2.0	28 January 2022	Revision to charges following receipt of Supplier of Last Resort Payment Claims in December 2021.

A change-marked version of this statement can be provided upon request.

Contents

1. Introduction

1.1. This statement tells you about our charges and the reasons behind them. It has been prepared consistent with Standard Licence Condition 14 of our Electricity Distribution Licence. The main purpose of this statement is to provide our schedule of charges[1] for the use of our Distribution System and to provide the schedule of Line Loss Factors[2] that should be applied in Settlement to account for losses from the Distribution System. We have also included guidance notes in Appendix 2 to help improve your understanding of the charges we apply.

1.2. Within this statement we use terms such as 'Users' and 'Customers' as well as other terms which are identified with initial capitalisation. These terms are defined in the glossary.

1.3. The charges in this statement are calculated using the following methodologies as per the Distribution Connection and Use of System Agreement (DCUSA)[3]:

- Common Distribution Charging Methodology (CDCM); for Low Voltage (LV) and High Voltage (HV) Designated Properties as per DCUSA Schedule 16;
- Extra High Voltage (EHV) Distribution Charging Methodology (EDCM); for Designated EHV Properties as per DCUSA Schedule 18;
- Price Control Disaggregation Model (PCDM); for Discount Percentages used to calculate the LDNO Use of System charges in the CDCM and EDCM as per DCUSA Schedule 29.

1.4. Separate charges are calculated depending on the characteristics of the connection and whether the use of the Distribution System is for demand or generation purposes. Where a generation connection is seen to support the Distribution System the charges will be negative and the Supplier will receive credits for exported energy.

1.5. The application of charges to premises can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on

[1] Charges can be positive or negative.
[2] Known as adjustment factors in the Distribution Licence and commonly referred to as Loss Adjustment Factors. The schedule of Line Loss Factors will be provided in a revised statement shortly after the Line Loss Factors for the relevant year have been successfully audited by Elexon.
[3] The Distribution and Connection Use of System Agreement (DCUSA) available from http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx

how to identify and calculate the charge that will apply for your premises is provided in the guidance notes in Appendix 2.

1.6. All charges in this statement are shown **exclusive** of VAT. Invoices will include VAT at the applicable rate.

1.7. The annexes that form part of this statement are also available in spreadsheet format[4]. This spreadsheet contains supplementary information used for charging purposes and a simple model to assist you to calculate charges. This spreadsheet can be downloaded from www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/current-charging-information/.

Validity period

1.8. This charging statement is valid for services provided from the effective date stated on the front of the statement and remains valid until updated by a revised version or superseded by a statement with a later effective date.

1.9. When using this charging statement, care should be taken to ensure that the relevant statement or statements covering the period that is of interest are used.

1.10. Notice of any revision to the statement will be provided to Users of our Distribution System (with the exception of updates to Annex 6; New or Amended EHV Sites which will be published as an addendum). The latest statements can be downloaded from www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/current-charging-information/.

Contact details

1.11. If you have any questions about this statement please contact us at this address:

Charging Manager
Electricity North West Limited
3rd Floor
Hartington Road
Preston
Lancashire
PR1 8AF
Email: electricitycommercialpolicy@enwl.co.uk
Telephone: 0843 311 4323

[4] Schedule of Charges and other Tables, www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/current-charging-information/.

1.12. All enquiries regarding connection agreements and changes to maximum capacities should be addressed to:

Data Assurance Manager

Electricity North West

Hartington Road

Preston

PR1 8LE

Email: terms&conditions@enwl.co.uk

Telephone: 0843 311 4503

1.13. For enquiries regarding certification of storage facilities, please contact:

Data Assurance Manager

Electricity North West

Hartington Road

Preston

PR1 8LE

Email: terms&conditions@enwl.co.uk

Telephone: 0843 311 4503

1.14. For all other queries please contact our Customer Contact Centre:

Electricity North West

PO Box 218

Warrington

WA3 6XG

Email: enquiries@enwl.co.uk

Telephone: 0800 195 4141; lines are open 24 hours, 365 days per year.

1.15. You can also find us on Facebook and Twitter.

www.facebook.com/ElectricityNorthWest www.twitter.com/ElectricityNW

2. Charge application and definitions

2.1. The following section details how the charges in this statement are applied and billed to Users of our Distribution System.

The supercustomer and site-specific billing approaches

2.2. We utilise two billing approaches depending on the type of metering data received:

- The 'Supercustomer' approach for Customers for whom we receive aggregated consumption data through Settlement; and
- The 'Site-specific' approach for Customers for whom we receive site-specific consumption data through Settlement.

2.3. We receive aggregated consumption data through Settlement for:

- Domestic and non-domestic Customers for whom Non-Half Hourly (NHH) metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class A);
- Customers which are unmetered and are not settled as pseudo Half Hourly (HH) metered (i.e. Customers with MPANs which are registered to Measurement Class B);
- Domestic Customers for whom HH metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class F); and
- Non-domestic Customers for whom HH metering data is used in Settlement and which have whole current (WC) metering (i.e. Customers with MPANs which are registered to Measurement Class G).

2.4. We receive site specific consumption data through Settlement for:

- Non-domestic Customers for whom HH metering data is used in Settlement and which have current transformer (CT) metering (i.e. Customers with MPANs which are registered to measurement class C or E); and
- Customers which are unmetered and settled as pseudo HH metered (i.e. Customers with MPANs which are registered to measurement class D).

Supercustomer billing and payment

2.5. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Aggregated Distribution Use of System (DUoS) Report' data flow.

2.6. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Invoices are reconciled over a period of approximately 14 months to reflect later and more accurate consumption figures.

2.7. The charges are applied on the basis of the LLFC assigned to the MPAN, and the units (or kWhs) consumed within the time periods specified in this statement. These time periods are not the same as those indicated by the Time Pattern Regime (TPR) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' if you believe the allocated LLFC or tariff is incorrect.

Supercustomer charges

2.8. Supercustomer charges include the following components:

- a fixed charge, pence/MPAN/day, there will only be one fixed charge applied to each MPAN; and
- unit charges, pence/kilowatt-hour (kWh); three unit charges will apply depending on the time of day and the type of tariff for which the MPAN is registered.

2.9. Users who wish to supply electricity to Customers for whom we receive aggregated data through Settlement (see paragraph 2.3) will be allocated the relevant charge structure set out in Annex 1.

2.10. Identification of the appropriate charge can be made by cross-reference to the LLFC.

2.11. Valid Settlement Profile Class (PC)/Standard Settlement Configuration (SSC)/Meter Timeswitch Code (MTC) combinations for LLFCs where the Metering System is Measurement Class A or B are detailed in Market Domain Data (MDD).

2.12. Where an MPAN has an invalid Settlement combination, the 'Domestic Aggregated with Residual' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'Domestic Aggregated with Residual' fixed and unit charges will be applied for each invalid SSC/TPR combination.

2.13. The 'Domestic Aggregated (related MPAN)' and 'Non-Domestic Aggregated (related MPAN)' charges are supplementary to their respective primary MPAN charge.

Site-specific billing and payment

2.14. The site-specific billing and payment approach makes use of HH metering data at premises level received through Settlement.

2.15. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment that may be necessary following the receipt of actual data from the User.

2.16. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement. Where MPANs have not been associated, for example when multiple points of connection fed from different sources are used for a single site, the relevant number of fixed charges will be applied.

2.17. All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' if you believe the allocated LLFC or tariff is incorrect.

Site-specific billed charges

2.18. Site-specific billed charges for LV and HV Designated Properties may include the following components:

- a fixed charge, pence/MPAN/day or pence/MSID/day;
- a capacity charge, pence/kilovolt-ampere (kVA)/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);

- an excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
- three unit charges, pence/kWh, depending on the time of day and the type of tariff for which the MPAN is registered; and
- a reactive power charge, pence/kilovolt-ampere reactive hour (kVArh), for each unit in excess of the reactive charge threshold.

2.19. Users who wish to supply electricity to Customers for whom we receive site-specific data through Settlement (see paragraph 2.4) will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.

2.20. Fixed charges are generally levied on a pence per MPAN/MSID per day basis. Where two or more HH MPANs/MSIDs are located at the same point of connection (as identified in the Connection Agreement), with the same LLFC, and registered to the same Supplier, only one daily fixed charge will be applied.

2.21. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.

2.22. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.

2.23. Where LV and HV Designated Properties or Designated EHV Properties have more than one point of connection (as identified in the Connection Agreement) then separate charges will be applied to each point of connection.

Components of Charges

Application of Residual Charges

2.24. The following sections explain the application of residual charges.

Final Demand Sites

2.25. Residual charges are recovered through fixed charges for all Final Demand Sites. All Non-Final Demand Sites must submit a valid certificate, as described in Section 10, and upon receipt of a valid certificate will be allocated to the relevant No Residual tariff.

Residual Charging Bands

2.26. Residual charges are applied to Final Demand Sites on a banded basis, with all sites in a given charge band receiving the same residual charge. Domestic customers have a single charging band.

2.27. There are four non-domestic charging bands for each of the following groups:

- Designated Properties connected at LV, billing with no MIC;
- Designated Properties connected at LV, billing with MIC;
- Designated Properties connected at HV; and
- Designated EHV Properties.

2.28. All non-domestic Final Demand customers are allocated into one of the four charging bands, for each relevant charge structure.

2.29. The residual charging band boundaries are calculated nationally based upon data from all LDNOs. The method and timing for calculating the residual charging band boundaries and the method and timing for allocating customers into the residual charging bands are set out in Schedule 32 of DCUSA.

2.30. The boundaries for the residual bands can be found in the 'Schedule of charges and other tables' spreadsheet on our website.

Time periods

2.31. The time periods for the application of unit charges to metered LV and HV Designated Properties are detailed in Annex 1. We have not issued a notice to change the time bands.

2.32. The time periods for the application of unit charges to Unmetered Supply Exit Points are detailed in Annex 1. We have not issued a notice to change the time bands.

2.33. The time periods for the application of unit charges to Designated EHV Properties are detailed in Annex 2. We have not issued a notice to change the time bands.

Application of capacity charges

2.34. The following sections explain the application of capacity charges and exceeded capacity charges.

Chargeable capacity

2.35. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.

2.36. The MIC/MEC will be agreed with us at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time of connection or later) no reduction in MIC/MEC will be allowed for a 12 month period.

2.37. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where the MIC/MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum import and/or export demand respectively. The new MIC/MEC will be applied from the start of the next billing period after the date that the request was received. It should be noted that, where a new lower level is agreed, the original capacity may not be available in the future without the need for network reinforcement and associated charges.

2.38. In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC/MEC that we have previously agreed for the relevant premises' connection. A Customer can seek to agree or vary the MIC/MEC by contacting us using the contact details in section 1.12.

Exceeded capacity

2.39. Where a Customer takes additional unauthorised capacity over and above the MIC/MEC, the excess will be classed as exceeded capacity. The exceeded portion of the capacity will be charged at the excess capacity charge p/kVA/day rate, based on the difference between the MIC/MEC and the actual capacity used. This will be charged for the full duration of the billing period in which the breach occurs.

Demand exceeded capacity

$$\text{Demand exceeded capacity} = \max(2 \times \sqrt{AI^2 + \max(RI, RE)^2} - MIC, 0)$$

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

2.40. Only reactive import and reactive export values occurring at times of active import are used in the calculation.

2.41. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Generation exceeded capacity

$$\text{Generation exceeded capacity} = \max(2 \times \sqrt{AE^2 + \max(RI, RE)^2} - MEC, 0)$$

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

2.42. Only reactive import and reactive export values occurring at times of active export are used in the calculation.

2.43. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Standby capacity for additional security on site

2.44. Where standby capacity charges are applied, the charge will be set at the same rate as that applied to normal MIC. Should a Customer's request for additional security of supply require the provision of capacity from two different sources, we reserve the right to charge for the capacity held at each source.

Minimum capacity levels

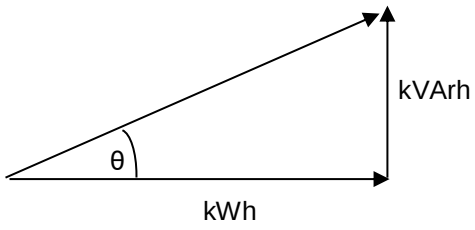
2.45. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.46. When an individual HH metered MPAN's reactive power (measured in kVArh) at LV and HV Designated Properties exceeds 33% of its total active power (measured in kWh) in any given half hour, excess reactive power charges will apply. This threshold is equivalent to an average power factor of 0.95 during that half hour. Any reactive units in excess of the 33% threshold are charged at the rate appropriate to the particular charge.

2.47. Power Factor is calculated as follows:

Cos θ = Power Factor



2.48. The chargeable reactive power is calculated as follows:

Demand chargeable reactive power

$$\text{Demand chargeable kVArh} = \max\left(\max(RI,RE) - \left(\sqrt{\left(\frac{1}{0.95^{2}} - 1\right)} \times AI\right), 0\right)$$

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

2.49. Only reactive import and reactive export values occurring at times of active import are used in the calculation.

2.50. The square root calculation will be to two decimal places.

2.51. This calculation is completed for every half hour and the values summated over the billing period.

Generation chargeable reactive power

$$\text{Generation chargeable kVArh} = \max\left(\max(RI,RE) - \left(\sqrt{\left(\frac{1}{0.95^{2}} - 1\right)} \times AE\right), 0\right)$$

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

2.52. Only reactive import and reactive export values occurring at times of active export are used in the calculation.

2.53. The square root calculation will be to two decimal places.

2.54. This calculation is completed for every half hour and the values summated over the billing period.

Incorrectly allocated charges

2.55. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection, import/export details including multiple MPANs, metering information and, for some tariffs, the metering location.

2.56. We are responsible for deciding the voltage of connection. Generally this is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected Customer.

2.57. We are also responsible for allocating non-domestic customers into their residual charging bands. Allocation into residual charging bands is determined by consumption for customers billed under the Supercustomer approach and by the MIC for customers billed under the site-specific approach.

2.58. The Supplier determines and provides us with the metering information and data to enable us to allocate charges. The metering information and data is likely to change over time if, for example, a Supplier changes an MPAN from non-domestic to domestic following a change of use at the premise. When we are notified this has happened we will change the allocation of charges accordingly.

2.59. If it has been identified that a charge may have been incorrectly allocated due to the metering information and/or data then a request for investigation should be made to the Supplier.

2.60. Where it has been identified that a charge may have been incorrectly allocated due to: the voltage of connection; import/export details; metering location; or allocation to residual charging band or LV Substation tariff then a request to investigate the applicable charges should be made to us. Requests from persons other than the Customer or the current Supplier must be accompanied by a Letter of Authority from the Customer; the current Supplier must also acknowledge that they are aware a request has been made. Any request must be supported by an explanation of why it is believed that the current charge should be changed, along with supporting information including, where appropriate, photographs of metering positions or system diagrams. Any request to change the current charge that also includes a request for backdating must include justification as to why it is considered appropriate to backdate the change.

2.61. Where a residual charging band allocation cannot be resolved, the dispute process provided within DCUSA Schedule 32 should be followed.

2.62. An administration charge (covering our reasonable costs) may be made if a technical assessment or site visit is required, but we will not apply any charge where we agree to the change request.

2.63. Where we agree that the current LLFC/charge should be changed, we will then allocate the appropriate set of charges for the connection. Any adjustment will be applied from the date of the request, back to either the date of the incorrect allocation, or the date the connection first became eligible for LV Substation tariff, or; up to the maximum period specified by the Limitation Act (1980) in England and Wales, which covers a six year period from the date of request, and the Prescription and Limitation (Scotland) Act 1973, which covers a five year period from the date of request; whichever is the shorter.

2.64. Any credit or additional charge will be issued to the relevant Supplier(s) effective during the period of the change.

2.65. Should we reject the request (as per paragraph 2.56) a justification will be provided to the requesting party. We shall not unreasonably withhold or delay any decision on a request to change the charges applied and would expect to confirm our position on the request within three months of the date of request.

Generation charges for pre-2005 designated EHV properties

2.66. Designated EHV Properties that were connected to the Distribution System under a pre-2005 connection charging policy are eligible for exemption from Use of System (UoS) charges for generation unless one of the following criteria has been met:

- 25 years have passed since their first energisation/connection date (i.e. Designated EHV Properties with Connection Agreements dated prior to 1st April 2005, and for which 25 years has passed since their first energisation/connection date will receive UoS charges for generation from the next charging year following the expiry of their 25 years exemption, (starting 1st April), or
- the person responsible for the Designated EHV Property has provided notice to us that they wish to opt in to UoS charges for generation.

If a notice to opt in has been provided there will be no further opportunity to opt out.

2.67. Furthermore, if an exempt Customer makes an alteration to its export requirement then the Customer may be liable to be charged for the additional capacity required for energy imported or exported. For example, where a generator increases its export capacity the incremental increase in export capacity will attract UoS charges as with other non-exempt generators.

Provision of billing data

2.68. Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or DCUSA, such metering data shall be provided to us by the User of the system in respect of each calendar month within five working days of the end of that calendar month.

2.69. The metering data shall identify the amount of energy conveyed across the Metering System in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to us shall be consistent with that received through the metering equipment installed.

2.70. Metering data shall be provided in an electronic format specified by us from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration Agreement (MRA) data flow D0275[5] (as agreed with us). The data shall be emailed to DUOS.Billing@enwl.co.uk.

2.71. We require details of reactive power imported or exported to be provided for all Measurement Class C and E sites. It is also required for CVA sites and Exempt Distribution Network boundaries with difference metering. We reserve the right to levy a charge on Users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.9 lag will be applied to the active consumption in any half hour.

Out of area use of system charges

2.72. We do not operate networks outside our Distribution Services Area.

[5] MRA Data Transfer Catalogue available from https://dtc.mrasco.com/

Licensed distribution network operator charges

2.73. Licensed Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.

2.74. The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the 'All-the-way' charge and is dependent upon the voltage of connection of each embedded network to our Distribution System. The relevant charge structures are set out in Annex 4.

2.75. Where a NHH metered MPAN has an invalid Settlement combination, the 'LDNO HV: Domestic Aggregated with Residual' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'LDNO HV: Domestic Aggregated with Residual' fixed and unit charges will be applied for each invalid SSC/TPR combination.

2.76. The charge structure for Designated EHV Properties embedded in networks operated by LDNOs will be calculated individually using the EDCM. The relevant charge structures are set out in Annex 2.

2.77. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

Licence exempt distribution networks

2.78. The Electricity and Gas (Internal Market) Regulations 2011[6] introduced new obligations on owners of licence exempt distribution networks (sometimes called private networks) including a duty to facilitate access to electricity and gas suppliers for Customers within those networks.

2.79. When Customers (both domestic and commercial) are located within a licence exempt distribution network and require the ability to choose their own Supplier this is called 'third party access'. These embedded Customers will require an MPAN so that they can have their electricity supplied by a Supplier of their choice.

2.80. Licence exempt distribution networks owners can provide third party access using either full settlement metering or the difference metering approach.

[6] The Electricity and Gas (Internal Market) Regulations 2011 available from http://www.legislation.gov.uk/uksi/2011/2704/contents/made

Full settlement metering

2.81. This is where a licence exempt distribution network is set up so that each embedded installation has an MPAN and Metering System and therefore all Customers purchase electricity from their chosen Supplier. In this case there are no Settlement Metering Systems at the boundary between the licensed Distribution System and the licence exempt distribution network.

2.82. In this approach our UoS charges will be applied to each MPAN.

Difference metering

2.83. This is where one or more, but not all, Customers on a licence exempt distribution network choose their own Supplier for electricity supply to their premises. Under this approach, the Customers requiring third party access on the licence exempt distribution network will have their own MPAN and must have a HH Metering System.

Net settlement

2.84. Where one of our MPANs ([provide details of MPAN prefix relevant to DNO's licence]) is embedded within a licence exempt distribution network connected to one of our Distribution Systems, and difference metering is in place for Settlement purposes, and we do **not** receive gross measurement data for the boundary MPAN, we will charge the boundary MPAN Supplier based on the net measurement for use of our Distribution System. Charges will also be levied directly to the Supplier of the embedded MPAN(s) connected within the licence exempt distribution network based on the actual data received.

2.85. The charges applicable for the embedded MPANs are unit charges only. These will be the same values as those at the voltage of connection to the licence exempt distribution network and are shown in Annex n. The fixed charge and capacity charge, at the agreed MIC/MEC of the boundary MPAN, will be charged to the boundary MPAN Supplier.

3. Schedule of charges for use of the distribution system

3.1. Tables listing the charges for use of our Distribution System are published in annexes to this document.

3.2. These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/.

3.3. Annex 1 contains the charges applied to LV and HV Designated Properties.

3.4. Annex 2 contains the charges applied to our Designated EHV Properties and charges applied to LDNOs for Designated EHV Properties connected to their Distribution Systems.

3.5. Annex 3 contains details of any preserved and additional charges that are valid at this time. Preserved charges are mapped to an appropriate charge and are closed to new Customers.

3.6. Annex 4 contains the charges applied to LDNOs in respect of LV and HV Designated Properties connected to their Distribution Systems.

4. Schedule of line loss factors

Role of line loss factors in the supply of electricity

4.1. Electricity entering or exiting our Distribution System is adjusted to take account of energy that is lost[7] as it is distributed through the network. This adjustment does not affect distribution charges but is used in energy settlement to take metered consumption to a notional Grid Supply Point so that Suppliers' purchases take account of the energy lost on the Distribution System.

4.2. We are responsible for calculating the Line Loss Factors (LLFs) and providing these to Elexon. Elexon is the company that manages the BSC.

4.3. LLFs are used to adjust the Metering System volumes to take account of losses on the Distribution System.

Calculation of line loss factors

4.4. LLFs are calculated in accordance with BSCP128, which sets out the procedure and principles with which our LLF methodology must comply. It also defines the procedure and timetable by which LLFs are reviewed and submitted.

4.5. LLFs are calculated for a set number of time periods during the year using either a generic or site-specific method. The generic method is used for sites connected at LV or HV and the site-specific method is used for sites connected at EHV or where a request for site-specific LLFs has been agreed. Generic LLFs will be applied as a default to all new EHV sites until sufficient data is available for a site-specific calculation.

Where the usage profile for a given site contains insufficiently large consumption or generation volumes to enable calculation of realistic Site Specific LLFs then a default calculation, or default replacement process shall be undertaken. The definition of EHV used for LLF purposes differs from the definition used for defining Designated EHV Properties in the EDCM. The definition used for LLF purposes can be found in our LLF methodology, which can be found on the Elexon website[8].

[7] Energy can be lost for technical and non-technical reasons and losses normally occur by heat dissipation through power flowing in conductors and transformers. Losses can also reduce if a customer's action reduces power flowing in the distribution network. This might happen when a customer generates electricity and the produced energy is consumed locally.

[8] BSCP128: Production, Submission, Audit and Approval of Line Loss Factors
https://www.elexon.co.uk/csd/bscp128-production-submission-audit-and-approval-of-line-loss-factors/

Publication of line loss factors

4.6. The LLFs used in Settlement are published on the Elexon Portal[9]. The website contains the LLFs in standard industry data formats and in a summary form. A user guide with details on registering and using the portal is also available.

4.7. BSCP128 sets out the timetable by which LLFs are submitted and audited. The submission and audit occurs between September and December in the year prior to the LLFs becoming effective. Only after the completion of the audit at the end of December and BSC approval are the final LLFs published.

4.8. As this statement is published a complete year before the LLFs for the charging year have been produced, Annex 5 is intentionally left blank. This statement will be reissued with Annex 5 populated once the LLFs have been calculated and audited. This should typically be more than three months prior to the statement coming into force.

4.9. When using the tables in Annex 5, reference should be made to the LLFC allocated to the MPAN to find the appropriate values.

[9] The Elexon Portal can be accessed from www.elexonportal.co.uk

5. Notes for Designated EHV Properties

EDCM nodal costs

5.1. A table is provided in the accompanying spreadsheet which shows the underlying Long Run Incremental Cost (LRIC) nodal costs used to calculate the current EDCM charges. This spreadsheet, our Schedule of Charges and Other Tables, is available to download from our website at www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/current-charging-information/.

5.2. These are illustrative of the modelled costs at the time that this statement was published. A new connection will result in changes to current network utilisations, which will then form the basis of future prices. The charge determined in this statement will not necessarily be the charge in subsequent years because of the interaction between new and existing network connections and any other changes made to our Distribution System which may affect charges.

Charges for new Designated EHV Properties

5.3. Charges for any new Designated EHV Properties calculated after publication of the current statement will be published on our website in an addendum to that statement as and when necessary. The addendum will include charge information of the type found in Annex 2, and LLFs as found in Annex 5.

5.4. The form of the addendum is detailed in Annex 6 to this statement.

5.5. The new Designated EHV Properties' charges will be added to Annex 2 in the next full statement released.

Charges for amended Designated EHV Properties

5.6. Where an existing Designated EHV Property is modified and energised in the charging year, we may revise the EDCM charges for the modified Designated EHV Property. If revised charges are appropriate, an addendum will be sent to all relevant parties and published as a revised 'Schedule of Charges and other tables' spreadsheet on our website. The modified Designated EHV Property charges will be added to Annex 2 in the next full statement released.

Demand-side management

5.7. New or existing Designated EHV Property Customers may wish to offer part of their MIC to be interruptible by us (for active network management purposes other than normal planned or unplanned outages) in order to benefit from any reduced UoS charges calculated using the EDCM.

5.8. Several options exist in which we may agree for some or the entire MIC to be interruptible. Under the EDCM the applicable demand capacity costs would be based on the MIC minus the capacity subject to interruption.

5.9. Further information is available on our website at: https://www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/demand-side-management/. This area of our website provides more information on the type of arrangement that might be put in place should you request to participate in DSM arrangements.

5.10. If you are proactively interested in voluntarily but revocably offering to make some or all of your existing connection's MIC interruptible you should in the first instance contact our Demand Side Response Strategy and Delivery Manager at FutureNetworks@enwl.co.uk.

6. Electricity distribution rebates

6.1. We have neither given nor announced any DUoS rebates to Users in the 12 months preceding the date of publication of this version of the statement.

7. Accounting and administration services

7.1. We reserve the right to impose payment default remedies. The remedies are as set out in DCUSA where applicable or else as detailed in the following paragraph.

7.2. If any invoices that are not subject to a valid dispute remain unpaid on the due date, late payment interest (calculated at base rate plus 8%) and administration charges may be imposed.

7.3. Our administration charges are detailed in the following table. These charges are set at a level which is in line with the Late Payment of Commercial Debts Act;

Size of Unpaid Debt	Late Payment Fee
Up to £999.99	£40.00
£1,000 to £9,999.99	£70.00
£10,000 or more	£100.00

8. Charges for electrical plant provided ancillary to the grant of use of system

8.1. We do not have a schedule of the charges that may be made (i) for providing and installing any electrical plant at entry points or exit points, where such provision and installation are ancillary to the grant of UoS, and (ii) for maintaining such plant.

9. Schedule of fixed adders to recover Supplier of Last Resort and Eligible Bad Debt pass-through costs

Supplier of Last Resort

9.1. In accordance with Standard Condition 38B 'Treatment of payment claims for last-resort supply where Valid Claim is received on or after 1 April 2019' ('SLC38B') of our Electricity Distribution Licence, and subject to paragraph 9 of that condition, our charges will recover the amount of payments in Regulatory Year t-2 made in response to Last Resort Supply Payment claims. In accordance with Charge Restriction Condition 2B 'Calculation of Allowed Pass-Through Items'

('CRC2B'), specifically paragraph 35 of that condition, other relevant adjustments may also be included.

Excess Supplier of Last Resort

9.2. In accordance with paragraph 9 of SLC38B, we may amend previously published charges as a result of Last Resort Supply Payment claims which breach the Materiality Threshold.

9.3. In such instance, we will include the fixed charge adder to recover these costs separately to the charges calculated in accordance with paragraph 9.1. The Excess Supplier of Last Resort fixed adder therefore represents an increase to previously published charges only.

Eligible Bad Debt

9.4. In accordance with CRC2B, specifically paragraph 39 of that condition, our charges will recover the amount of use of system bad debt the Authority has consented to be recovered. This includes use of system bad debt our charges are recovering on behalf of Independent Distribution Network Operators (IDNOs), in accordance with Standard Licence Condition 38C 'Treatment of Valid Bad Debt Claims' ('SLC38C'), and specifically paragraph 4 of that condition, plus any amounts being returned by us, including on behalf of IDNOs.

Tables of Fixed Adders

9.5. Tables listing the charges to recover Supplier of Last Resort and Eligible Bad Debt pass-through costs are published in annex 7 to this document.

10. Non-Final Demand Sites

Charges for Non-Final Demand Sites

10.1. A Non-Final Demand Site is charged an import tariff that excludes the residual cost element of charges. If the User wishes for a property to qualify for allocation to these tariffs, then the User must submit certification declaring that the property meets the required criteria as per DCUSA.

Process for submitting certification

10.2. This certification should take the form as set out in Appendix 3 and be submitted Data Assurance Manager using the contact details in 1.123.

We may, at our discretion, request a signed paper certificate from the User, in place of electronic. If requested, paper certification should be posted to the contact details in 1.12.

10.3. Users should undertake reasonable endeavours to ensure the facts attested to in the certification are true. We may request documentation evidencing these endeavours, including where appropriate, photographs of metering positions or system diagrams, following receipt of the certification.

10.4. If we determine that the documentation provided does not sufficiently evidence the undertaking of reasonable endeavours, does not support the facts attested to in the certification, or if no documentation is received, we may at our discretion reject the certification as invalid. If the certification is rejected as invalid, then the property will not qualify as a Non-Final Demand Site.

Application of charges for Non-Final Demand Sites

10.5. A property will only be deemed to qualify as a Non-Final Demand Site, and be allocated charges as such, from the date on which we receive valid certification.

10.6. If a property that has previously been certified as a Non-Final Demand Site no longer satisfies the criteria as per DCUSA, then the User must inform us immediately.

10.7. For a property that has been previously certified as a Non-Final Demand Site, we will continue to apply the relevant no residual import tariff without the requirement for further certification, except in any one of the following circumstances;

- Where we have reason to believe that the property no longer qualifies as a Non-Final Demand Site; or
- Significant time has passed since the certification was submitted; or

- Where there is a change to the connection characteristics i.e. capacity change.

If such circumstances occur, we may request re-certification of the site, or reject the certification as invalid at our discretion.

10.8. When a property no longer meets the required criteria to qualify as a Non-Final Demand Site, we will change the allocation of charges accordingly from that point.

10.9. Please refer to the section ‘Incorrectly allocated charges’ if you believe the property has been incorrectly not allocated charges as a Non-Final Demand Site.

Appendix 1 - Glossary

1.1. The following definitions, which can extend to grammatical variations and cognate expressions, are included to aid understanding:

Term	Definition
All-the-way Charge	A charge that is applicable to an end user rather than an LDNO. An end user in this context is a Supplier/User who has a registered MPAN or MSID and is using the Distribution System to transport energy on behalf of a Customer.
Balancing and Settlement Code (BSC)	The BSC contains the governance arrangements for electricity balancing and settlement in Great Britain. An overview document is available from www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf.
Balancing and Settlement Code Procedure (BSCP)	A document of that title, as established or adopted and from time to time modified by the Panel in accordance with The Code, setting out procedures to be complied with (by Parties, Party Agents, BSC Agents, BSCCo, the Panel and others) in, and other matters relating to, the implementation of The Code;
Common Distribution Charging Methodology (CDCM)	The CDCM used for calculating charges to Designated Properties as required by standard licence condition 13A of the Electricity Distribution Licence.
Connection Agreement	An agreement between an LDNO and a Customer which provides that that Customer has the right for its connected installation to be and remain directly or indirectly connected to that LDNO's Distribution System
Central Volume Allocation (CVA)	As defined in the BSC.
Customer	A person to whom a User proposes to supply, or for the time being supplies, electricity through an exit point, or from who, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point; Or A person from whom a User purchases, or proposes to purchase, electricity, at an entry point (who may from time to time be supplied with electricity as a Customer of that User (or another electricity supplier) through an exit point).
Designated EHV Properties	As defined in standard condition 13B of the Electricity Distribution Licence.

Term	Definition
Designated Properties	As defined in standard condition 13A of the Electricity Distribution Licence.
Distribution Connection and Use of System Agreement (DCUSA)	The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.

<table>
<tr><th>Term</th><th>Definition</th></tr>
<tr><td>Distributor IDs</td><td>These are unique IDs that can be used, with reference to the MPAN, to identify your LDNO. The charges for other network operators can be found on their website.
<table>
<tr><th>ID</th><th>Distribution Service Area</th><th>Company</th></tr>
<tr><td>10</td><td>East of England</td><td>UK Power Networks</td></tr>
<tr><td>11</td><td>East Midlands</td><td>Western Power Distribution</td></tr>
<tr><td>12</td><td>London</td><td>UK Power Networks</td></tr>
<tr><td>13</td><td>Merseyside and North Wales</td><td>Scottish Power</td></tr>
<tr><td>14</td><td>Midlands</td><td>Western Power Distribution</td></tr>
<tr><td>15</td><td>Northern</td><td>Northern Powergrid</td></tr>
<tr><td>16</td><td>North Western</td><td>Electricity North West</td></tr>
<tr><td>17</td><td>Scottish Hydro Electric (and embedded networks in other areas)</td><td>Scottish Hydro Electric Power Distribution plc</td></tr>
<tr><td>18</td><td>South Scotland</td><td>Scottish Power</td></tr>
<tr><td>19</td><td>South East England</td><td>UK Power Networks</td></tr>
<tr><td>20</td><td>Southern Electric (and embedded networks in other areas)</td><td>Southern Electric Power Distribution plc</td></tr>
<tr><td>21</td><td>South Wales</td><td>Western Power Distribution</td></tr>
<tr><td>22</td><td>South Western</td><td>Western Power Distribution</td></tr>
<tr><td>23</td><td>Yorkshire</td><td>Northern Powergrid</td></tr>
<tr><td>24</td><td>All</td><td>Independent Power Networks</td></tr>
<tr><td>25</td><td>All</td><td>ESP Electricity</td></tr>
<tr><td>26</td><td>All</td><td>Energetics Electricity Ltd</td></tr>
<tr><td>27</td><td>All</td><td>The Electricity Network Company Ltd</td></tr>
<tr><td>29</td><td>All</td><td>Harlaxton Energy Networks</td></tr>
<tr><td>30</td><td>All</td><td>Peel Electricity Networks Ltd</td></tr>
<tr><td>31</td><td>All</td><td>UK Power Distribution Ltd</td></tr>
<tr><td>32</td><td>All</td><td>Energy Assets Networks Limited</td></tr>
<tr><td>33</td><td>All</td><td>Eclipse Power Networks Ltd</td></tr>
<tr><td>34</td><td>All</td><td>Murphy Power Distribution Ltd</td></tr>
<tr><td>35</td><td>All</td><td>Fulcrum Electricity Assets Ltd</td></tr>
<tr><td>36</td><td>All</td><td>Vattenfall Networks Ltd</td></tr>
</table></td></tr>
</table>

Term	Definition
Distribution Network Operator (DNO)	An electricity distributor that operates one of the 14 distribution services areas and in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.
Distribution System	The system consisting (wholly or mainly) of electric lines owned or operated by an authorised distributor that is used for the distribution of electricity from: • Grid Supply Points or generation sets or other entry points to the points of delivery to: • Customers or Users or any transmission licensee in its capacity as operator of that licensee's transmission system or the Great Britain (GB) transmission system and includes any remote transmission assets (owned by a transmission licensee within England and Wales) that are operated by that authorised distributor and any electrical plant, electricity meters, and metering equipment owned or operated by it in connection with the distribution of electricity, but does not include any part of the GB transmission system.
EHV Distribution Charging Methodology (EDCM)	The EDCM used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the Electricity Distribution Licence.
Electricity Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Electricity Act 1989.
Electricity Distributor	Any person who is authorised by an Electricity Distribution Licence to distribute electricity.
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another Distribution System.
Engineering Recommendation P2/6	A document of the Energy Networks Association, which defines planning standards for security of supply and is referred to in Standard Licence Condition 24 of our Electricity Distribution Licence.
Entry Point	A boundary point at which electricity is exported onto a Distribution System from a connected installation or from another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).

Term	Definition
Exit Point	A point of connection at which a supply of electricity may flow from the Distribution System to the Customer's installation or User's installation or the Distribution System of another person.
Extra High Voltage (EHV)	Nominal voltages of 22kV and above.
Final Demand Site	As defined in DCUSA Schedule 32.
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.
Grid Supply Point (GSP)	A metered connection between the National Grid Electricity Transmission system and the licensee's distribution system at which electricity flows to or from the Distribution System.
GSP group	A distinct electrical system that is supplied from one or more GSPs for which total supply into the GSP group can be determined for each half hour.
High Voltage (HV)	Nominal voltages of at least 1kV and less than 22kV.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in market domain data - see https://www.elexonportal.co.uk/MDDVIEWER.
kVA	Kilovolt ampere.
kVArh	Kilovolt ampere reactive hour.
kW	Kilowatt.
kWh	Kilowatt hour (equivalent to one "unit" of electricity).
Licensed Distribution Network Operator (LDNO)	The holder of a Licence to distribute electricity.
Line Loss Factor (LLF)	The factor that is used in Settlement to adjust the metering system volumes to take account of losses on the distribution system.
Line Loss Factor Class (LLFC)	An identifier assigned to an SVA metering system which is used to assign the LLF and use of system charges.
Load Factor	$= \frac{annual\ consumption\ (kWh)}{maximum\ demand\ (kW) \times hours\ in\ year}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data available to all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.

Term	Definition
Maximum Export Capacity (MEC)	The MEC of apparent power expressed in kVA that has been agreed can flow through the entry point to the Distribution System from the Customer's installation as specified in the connection agreement.
Maximum Import Capacity (MIC)	The MIC of apparent power expressed in kVA that has been agreed can flow through the exit point from the Distribution System to the Customer's installation as specified in the connection agreement.
Measurement Class	A classification of Metering Systems used in the BSC which indicates how consumption is measured, i.e.: • Measurement Class A – non-half hourly metering equipment; • Measurement Class B – non-half hourly unmetered supplies; • Measurement Class C – half hourly metering equipment at or above 100kW premises; • Measurement Class D – half hourly unmetered supplies; • Measurement Class E – half hourly metering equipment below 100kW premises with CT; • Measurement Class F – half hourly metering equipment at below 100kW premises with CT or whole current, and at domestic premises; and • Measurement Class G – half hourly metering equipment at below 100kW premises with whole current and not at domestic premises.
Meter Timeswitch Code (MTC)	MTCs are three digit codes allowing suppliers to identify the metering installed in Customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter. Further information can be found in MDD.
Metering Point	The point at which electricity that is exported to or imported from the licensee's Distribution System is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'Metering Points'.
Metering Point Administration Number (MPAN)	A number relating to a Metering Point under the MRA.
Metering System	Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.
Metering System Identifier (MSID)	MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.

Term	Definition
Master Registration Agreement (MRA)	The Master Registration Agreement (MRA) provides a governance mechanism to manage the processes established between electricity suppliers and distribution companies to enable electricity suppliers to transfer customers. It includes terms for the provision of Metering Point Administration Services (MPAS) Registrations.
Nested Networks	This refers to a situation where there is more than one level of Embedded Network and therefore nested Distribution Systems between LDNOs (e.g. host DNO→primary nested DNO→ secondary nested DNO→customer).
Non-Final Demand Site	As defined in DCUSA Schedule 32.
Ofgem	Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Profile Class (PC)	A categorisation applied to NHH MPANs and used in settlement to group customers with similar consumption patterns to enable the calculation of consumption profiles.
Settlement	The determination and settlement of amounts payable in respect of charges (including reconciling charges) in accordance with the BSC.
Settlement Class (SC)	The combination of Profile Class, Line Loss Factor Class, Time Pattern Regime and Standard Settlement Configuration, by Supplier within a GSP group and used for Settlement.
Standard Settlement Configuration (SSC)	A standard metering configuration relating to a specific combination of Time Pattern Regimes.
~~Storage Facility~~	~~Means a property that is either an Eligible Electricity Storage Facility as per DCUSA Schedule 16, or an Eligible EHV Electricity Storage Facility as per DCUSA Schedule [17/18].~~
Supercustomer	The method of billing Users for use of system on an aggregated basis, grouping together consumption and standing charges for all similar NHH metered Customers or aggregated HH metered Customers.
Supercustomer DUoS Report	A report of profiled data by Settlement Class providing counts of MPANs and units consumed.
Supplier	An organisation with a supply licence responsible for electricity supplied to and/or exported from a metering point.
Supplier Volume Allocation (SVA)	As defined in the BSC.
Time Pattern Regime (TPR)	The pattern of switching behaviour through time that one or more meter registers follow.

Term	Definition
Unmetered Supplies	Exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001 and where operated in accordance with BSC procedure 520[10].
Use of System Charges	Charges which are applicable to those parties which use the Distribution System.
User	Someone that has a use of system agreement with the DNO e.g. a supplier, generator or other LDNO.

[10] Balancing and Settlement Code Procedures are available from http://www.elexon.co.uk/pages/bscps.aspx

Appendix 2 - Guidance notes[11]

Background

1.1. The electricity bill from your Supplier contains an element of charge to cover electricity distribution costs. This distribution charge covers the cost of operating and maintaining a safe and reliable Distribution System that forms the 'wires' that transport electricity between the national transmission system and end users such as homes and businesses. Our Distribution System includes overhead lines, underground cables, as well as substations and transformers.

1.2. In most cases, your Supplier is invoiced for the distribution charge and this is normally part of your total bill. In some cases, for example business users, the Supplier may pass through the distribution charge as an identifiable line item on the electricity bill.

1.3. Where electricity is generated at a premises your Supplier may receive a credit for energy that is exported on to the Distribution System. These credits are intended to reflect that the exported generation may reduce the need for traditional demand led reinforcement of the Distribution System.

1.4. Understanding your distribution charges could help you reduce your costs and increase your credits. This is achieved by understanding the components of the charge to help you identify whether there may be opportunities to change the way you use the Distribution System.

Meter point administration

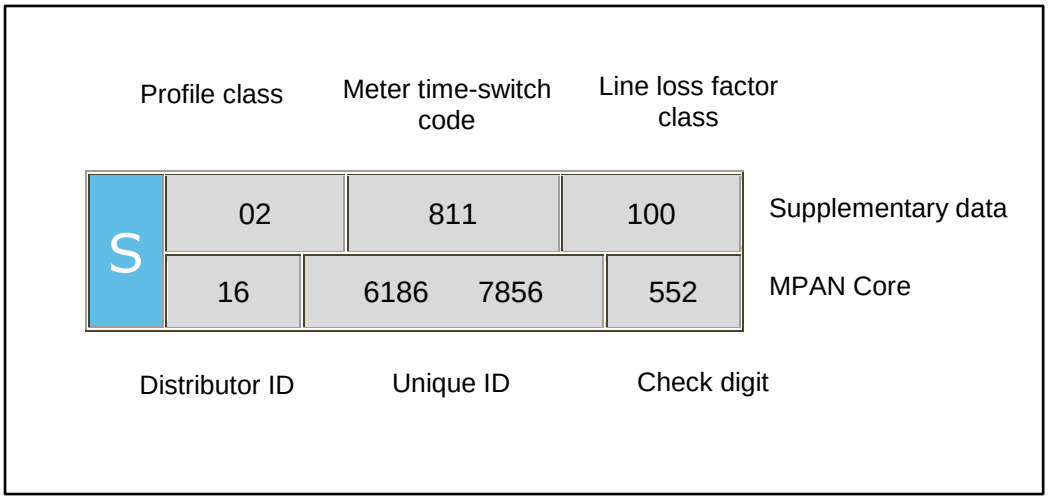
1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically, every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a school which may have an MPAN for the main supply and an MPAN for catering).

1.6. The full MPAN is a 21 digit number, preceded by an 'S' and includes supplementary data. The MPAN applicable to a supply point is found on the electricity bill from your Supplier. This number enables you to establish who your electricity distributor is, details of the characteristics of the supply and importantly the distribution charges that are applicable to your premises.

[11] These guidance notes are provided for additional information and do not form part of the application of charges.

1.7. The 21-digit number is normally presented in two sections as shown in the following diagram. The top section is supplementary data which gives information about the characteristics of supply, while the bottom 'core' is the unique identifier.

Full MPAN diagram



1.8. Generally, you will only need to know the Distributor ID and LLFC to identify the distribution charges for your premises. However, there are some premises where charges are specific to that site. In these instances, the charges are identified by the MPAN core. The Distributor ID for Electricity North West Limited is 16. Other Distributor IDs can be referenced in the glossary.

1.9. Additionally, it can be useful to understand the profile class provided in the supplementary data. The profile class will be a number between 00 and 08. The following list provides details of the allocation of profile classes to types of customers:

- '01' – Domestic customers with unrestricted supply
- '02' – Domestic customers with restricted load, for example off-peak heating
- '03' – Non-domestic customers with unrestricted supply
- '04' – Non-domestic customers with restricted load, for example off-peak heating
- '05' – Non-domestic maximum demand customers with a Load Factor of less than 20%
- '06' – Non-domestic maximum demand customers with a Load Factor between 20% and 30%
- '07' – Non-domestic maximum demand customers with a Load Factor between 30% and 40%

- ‘08’ – Non-domestic maximum demand customers with a Load Factor over 40% or non-half hourly metered generation customers
- ‘00’ – Half-hourly metered, demand and generation customers

1.10. Unmetered Supplies will be allocated to profile class 01, 08 or 00 depending on the type of load or the measurement method of the load.

1.11. The allocation of the profile class will affect your charges. If you feel that you have been allocated the wrong profile class, please contact your Supplier as they are responsible for this.

Your charges

1.12. All distribution charges that relate to our Distributor ID 16 are provided in this statement.

1.13. You can identify your charges by referencing your LLFC, from Annex 1. If the MPAN is for a Designated EHV Property, then the charges will be found in Annex 2. In a few instances, the charges may be contained in Annex 3 or Annex 6. When identifying charges in Annex 2, please note that some LLFCs have more than one charge. In this instance, you will need to select the correct charge by cross-referencing with the MPAN core provided in the table.

1.14. Once you have identified which charge structure applies to your MPAN then you will be able to calculate an estimate of your distribution charge using the calculator provided in the spreadsheet ‘Schedule of charges and other tables’ found in the sheet called ‘Charge Calculator’. This spreadsheet can be downloaded from www.enwl.co.uk/about-us/regulatory-information/use-of-system-charges/current-charging-information/.

Reducing your charges

1.15. The most effective way to reduce your energy charges is to reduce your consumption by switching off or using more energy efficient appliances. However, there are also other potential opportunities to reduce your distribution charges; for example, it may be beneficial to shift demand or generation to a better time period. Demand use is likely to be cheaper outside peak periods and generation credits more beneficial during peak periods, although the ability to directly benefit will be linked to the structure of your supply charges.

1.16. The calculator mentioned above provides the opportunity to establish a forecast of the change in distribution charges that could be achieved if you are able to change any of the consumption related inputs.

Reactive power and reactive power charges

1.17. Reactive power is a separately charged component of connections that are half hourly metered. Reactive power charges are generally avoidable if 'best practice' design of the properties' electrical installation has been provided in order to maintain a power factor between 0.95 and unity at the Metering Point.

1.18. Reactive Power (kVArh) is the difference between working power (active power measured in kW) and total power consumed (apparent power measured in kVA). Essentially it is a measure of how efficiently electrical power is transported through an electrical installation or a Distribution System.

1.19. Power flowing with a power factor of unity results in the most efficient loading of the Distribution System. Power flowing with a power factor of less than 0.95 results in much higher losses in the Distribution System, a need to potentially provide higher capacity electrical equipment and consequently a higher bill for you the consumer. A comparatively small improvement in power factor can bring about a significant reduction in losses since losses are proportional to the square of the current.

1.20. Different types of electrical equipment require some 'reactive power' in addition to 'active power' in order to work effectively. Electric motors, transformers and fluorescent lighting, for example, may produce poor power factors due to the nature of their inductive load. However, if good design practice is applied then the poor power factor of appliances can be corrected as near as possible to source. Alternatively, poor power factor can be corrected centrally near to the meter.

1.21. There are many advantages that can be achieved by correcting poor power factor. These include: reduced energy bills through lower reactive charges, lower capacity charges and reduced power consumption and reduced voltage drop in long cable runs.

Site-specific EDCM charges

1.22. A site classified as a Designated EHV Property is subject to a locational-based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use one of two approved approaches: Long Run Incremental Cost (LRIC) or Forward Cost Pricing (FCP); we use the LRIC. The EDCM will apply to Customers connected at EHV or connected at HV and metered at a HV Substation.

1.23. EDCM charges and credits are site-specific, reflecting the degree to which the local and higher voltage networks have the capacity to serve more demand or generation without the need to upgrade the electricity infrastructure. The charges also reflect the networks specifically used to deliver the electricity to the site as well as the usage at the site. Generators with non-intermittent output and deemed to be providing beneficial support to our networks may qualify to receive credit.

1.24. The charges under the EDCM comprise of the following individual components:

a) **Fixed charge (pence/MPAN/day)** - This charge recovers operational costs associated with those connection assets that are provided for the 'sole' use of the customer. The value of these assets is used as a basis to derive the charge.

b) **Capacity charge (pence/kVA/day)** - This charge comprises the relevant LRIC component, the National Grid Electricity Transmission cost and other regulated costs.

Capacity charges are levied on the MIC, MEC, and any exceeded capacity. You may wish to review your MIC or MEC periodically to ensure it remains appropriate for your needs as you may be paying for more capacity than you require. If you wish to make changes contact us via the details in paragraph 1.12

The LRIC cost is locational and reflects our assessment of future network reinforcement necessary at the voltage of connection (local) and beyond at all higher voltages (remote) relevant to the customer's connection. This results in the allocation of higher costs in more capacity congested parts of the network reflecting the greater likelihood of future reinforcement in these areas, and the allocation of lower costs in less congested parts of the network. The local LRIC cost is included in the capacity charge.

Our regulated costs include direct and indirect operational costs and a residual amount to ensure recovery of our regulated allowed revenue. The capacity charge recovers these costs using the customer usage profile and the relevant assets being used to transport electricity between the source substation and customer's Metering Point.

c) **Super-red unit charge (pence/kWh)** - This charge recovers the remote LRIC component. The charge is positive for import and negative for export which means you can either reduce your charges by minimising consumption or

increasing export at those times. The charge is applied to consumption during the Super-red time period as detailed in Annex 2.

1.25. Future charge rates may be affected by consumption during the Super-red period, therefore reducing consumption in the Super-red time period may be beneficial.

1.26. **Reactive Power** - The EDCM does not include a separate charge component for any reactive power flows (kVAr) for either demand or generation. However, the EDCM charges do reflect the effect on the network of the customer's power factor; for example, unit charges can increase if your site power factor is poor (lower than 0.95). Improving your site's power factor will also reduce the maximum demand (kVA) for the same power consumed in kW thus providing scope to reduce your agreed capacity requirements.

Appendix 3 – Non-Final Demand Site Certificate

A certificate set out in the form of the example shown below should be submitted to confirm that a site qualifies as a Non-Final Demand Site.

Non-Final Demand Site Certificate of Compliance

This is to certify that the Metering System listed below qualifies as compliant with the criteria of a Non-Final Demand Site, for the purposes of Use of System charges, and that:

The property is a Single Site at which either or both Electricity Storage and/or Electricity Generation occurs (whether the facility(ies) at the site are operating or being commissioned, repaired or decommissioned), and that:

a) has an export MPAN and an import MPAN with associated metering equipment which only measures export from Electricity Storage and/or Electricity Generation and import for or directly relating to Electricity Storage and/or Electricity Generation (and not export from another source and/or import for another activity); and
   i) if registered in an MPAS Registration System, is subject to certification from a Supplier Party that the site meets the criteria in paragraph (a) above, which certificate has been provided to the DNO/IDNO Party; or
   ii) if registered in CMRS, is subject to certification from the Customer (or its CVA Registrant) that the site meets the criteria in paragraph (a) above, which certificate has been provided to the DNO/IDNO Party.

For the purposes of this declaration, the term Non-Final Demand Site has the meaning given to it in the DCUSA.

Metering System Site Address:

Qualifying Import MPAN/MSID(s)	Qualifying Export MPAN/MSID(s)

I declare that I understand the qualification requirements and certify that the above Metering System meets the criteria of a Non-Final Demand Site.

Authorised signatory:

Name and designation:

On behalf of company:

Date:

Annex 1 - Schedule of charges for use of the distribution system by LV and HV Designated Properties, and Unmetered Supplies

Time Bands for LV and HV Designated Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16:00 to 19:00	09:00 to 16:00 19:00 to 20:30	00.00 - 09.00 20.30 - 24.00
Saturday and Sunday All Year		16:00 to 19:00	00.00 - 16.00 19.00 - 24.00
Notes	All the above times are in UK Clock time		

Time Bands for Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) March to October Inclusive		09.00 - 20.30	00.00 - 09.00 20.30 - 24.00
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 to 19:00	09:00 - 16.00 19.00 - 20.30	00.00 - 09.00 20.30 - 24.00
Saturday and Sunday All year		16:00 to 19:00	00.00 - 16.00 19.00 - 24.00
Notes	All the above times are in UK Clock time		

Tariff name	Open LLFCs	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh	Closed LLFCs
Domestic Aggregated with Residual	011, 031, 041, 051, 061, 441, 451, 511, 531, 821, 851	0, 1, 2	8.351	1.517	0.214	20.25				
Domestic Aggregated (Related MPAN)	081, 581	2	8.351	1.517	0.214					
Non-Domestic Aggregated No Residual	314,364	0, 3, 4, 5-8	9.632	1.749	0.247	4.33				
Non-Domestic Aggregated Band 1	131, 161, 171, 191, 241, 242, 431, 432, 481, 482, 751, 752, 631, 661, 831, 861	0, 3, 4, 5-8	9.632	1.749	0.247	7.41				
Non-Domestic Aggregated Band 2	4,34,32,33,144,154,164,174,184,182,183,194,374	0, 3, 4, 5-8	9.632	1.749	0.247	19.52				
Non-Domestic Aggregated Band 3	14,44,42,43,204,214,224,234,344,342,343,264,414	0, 3, 4, 5-8	9.632	1.749	0.247	41.95				
Non-Domestic Aggregated Band 4	24,54,52,53,274,284,294,304,354,352,353,324,424	0, 3, 4, 5-8	9.632	1.749	0.247	121.47				
Non-Domestic Aggregated (related MPAN)	091, 591	4	9.632	1.749	0.247					
LV Site Specific No Residual	461, 471,64,104	0	7.044	1.174	0.170	17.53	3.14	4.75	0.152	
LV Site Specific Band 1	801, 841	0	7.044	1.174	0.170	171.54	3.14	4.75	0.152	
LV Site Specific Band 2	74,114	0	7.044	1.174	0.170	401.55	3.14	4.75	0.152	
LV Site Specific Band 3	84,124	0	7.044	1.174	0.170	643.89	3.14	4.75	0.152	
LV Site Specific Band 4	94,134	0	7.044	1.174	0.170	1332.55	3.14	4.75	0.152	
LV Sub Site Specific No Residual	462, 472,62,102	0	5.683	0.860	0.129	56.51	3.21	5.51	0.112	
LV Sub Site Specific Band 1	802, 842	0	5.683	0.860	0.129	210.51	3.21	5.51	0.112	
LV Sub Site Specific Band 2	72,112	0	5.683	0.860	0.129	440.52	3.21	5.51	0.112	
LV Sub Site Specific Band 3	82,122	0	5.683	0.860	0.129	682.86	3.21	5.51	0.112	
LV Sub Site Specific Band 4	92,132	0	5.683	0.860	0.129	1371.53	3.21	5.51	0.112	
HV Site Specific No Residual	463, 473,63,103	0	3.913	0.493	0.079	124.20	3.15	5.74	0.069	
HV Site Specific Band 1	803, 843	0	3.913	0.493	0.079	1106.39	3.15	5.74	0.069	
HV Site Specific Band 2	73,113	0	3.913	0.493	0.079	3334.67	3.15	5.74	0.069	
HV Site Specific Band 3	83,123	0	3.913	0.493	0.079	6854.13	3.15	5.74	0.069	
HV Site Specific Band 4	93,133	0	3.913	0.493	0.079	15818.55	3.15	5.74	0.069	
Unmetered Supplies	761, 771, 781, 791, 811	0, 1 or 8	16.736	3.947	3.030					
LV Generation Aggregated	901, 961	0	-6.519	-1.184	-0.167	0.00				
LV Sub Generation Aggregated	962	0	-5.430	-0.922	-0.133	0.00				
LV Generation Site Specific	971, 981	0	-6.519	-1.184	-0.167	0.00			0.126	
LV Generation Site Specific no RP charge	934, 944	0	-6.519	-1.184	-0.167	0.00				
LV Sub Generation Site Specific	972, 982	0	-5.430	-0.922	-0.133	0.00			0.106	
LV Sub Generation Site Specific no RP charge	932, 942	0	-5.430	-0.922	-0.133	0.00				
HV Generation Site Specific	973, 983	0	-4.142	-0.601	-0.091	8.36			0.080	
HV Generation Site Specific no RP charge	933, 943	0	-4.142	-0.601	-0.091	8.36				

Annex 2 - Schedule of charges for use of the distribution system by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users)

Time Periods for Designated EHV Properties	
Time periods	**Super Red Time Band**
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00
Notes	All the above times are in UK Clock time

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 1	610	1600000132063		-	-	Site 1	0.004	53445.61	2.84	2.84	0.000	0.00	0.00	0.00
Import Site 2	500	1620000772484	Export Site 1	507	1640000719215	Site 2	0.208	11242.37	3.95	3.95	0.000	0.00	0.00	0.00
Import Site 3	650	1600000139069		-	-	Site 3	0.228	10825.34	1.71	1.71	0.000	0.00	0.00	0.00
Import Site 4	660	1600000138836		-	-	Site 4	1.074	13181.40	1.90	1.90	0.000	0.00	0.00	0.00
Import Site 5	640	1600000138766		-	-	Site 5	0.775	12411.67	6.45	6.45	0.000	0.00	0.00	0.00
Import Site 6	700	1600000138845		-	-	Site 6	1.130	13967.61	1.36	1.36	0.000	0.00	0.00	0.00
Import Site 7	900	1620000595780		-	-	Site 7	1.072	10825.34	3.58	3.58	0.000	0.00	0.00	0.00
Import Site 8	670	1600000176734	Export Site 2	217	1640000519728	Site 8	0.232	12073.84	4.74	4.74	0.000	0.00	0.00	0.00

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 9	320	1630000239738		-	-	Site 9	0.000	84317.43	1.65	1.65	0.000	0.00	0.00	0.00
Import Site 10	850	1620000847420		-	-	Site 10	0.512	66482.03	4.74	4.74	0.000	0.00	0.00	0.00
Import Site 11	450	1620001195216		-	-	Site 11	3.138	72708.34	3.77	3.77	0.000	0.00	0.00	0.00
Import Site 12	460	1620001102912	Export Site 3	470	1620001102930	Site 12	0.000	61708.81	1.92	1.92	0.000	0.00	0.00	0.00
Import Site 13	680	1600000135019	Export Site 4	690	1620000193245	Site 13	0.445	65845.40	1.39	1.39	-0.915	419.83	0.05	0.05
Import Site 14	520	1620000398404	Export Site 5	730	1630000403060	Site 14	0.475	38570.09	2.82	2.82	0.000	813.77	0.05	0.05
Import Site 15	530	1620000145881	Export Site 6	770	1630000402252	Site 15	0.000	80170.57	2.64	2.64	0.000	4586.07	0.05	0.05
Import Site 16	540	1620000273477	Export Site 7	740	1630000402299	Site 16	0.825	42801.67	2.12	2.12	0.000	2278.54	0.05	0.05
Import Site 17	550	1620000145915	Export Site 8	750	1630000403070	Site 17	0.942	75673.56	1.84	1.84	0.000	1367.13	0.05	0.05
Import Site 18	810	1620000622316	Export Site 9	820	1620000622325	Site 18	0.590	35859.48	2.02	2.02	0.000	0.00	0.00	0.00
Import Site 19	830	1620000828143	Export Site 10	840	1620000828134	Site 19	0.000	10013.38	2.10	2.10	0.000	3477.22	0.05	0.05
Import Site 20	960	1620000388390	Export Site 11	970	1620000388406	Site 20	0.023	10307.45	4.20	4.20	0.000	0.00	0.00	0.00
Import Site 21	370	1630000165174	Export Site 12	360	1630000165183	Site 21	0.202	2.19	2.79	2.79	0.000	0.00	0.00	0.00
Import Site 22	410	1620001681340	Export Site 13	420	1620001681359	Site 22	0.411	2.90	2.32	2.32	0.000	978.77	0.05	0.05
Import Site 23	430	1620001638558	Export Site 14	440	1620001638567	Site 23	0.283	1.76	1.61	1.61	0.000	0.00	0.00	0.00
Import Site 24	340	1630000215620	Export Site 15	350	1630000215630	Site 24	0.450	10.45	1.87	1.87	0.000	0.00	0.00	0.00
Import Site 25	480	1620000703611	Export Site 16	490	1620000703620	Site 25	0.888	1.96	2.51	2.51	0.000	0.00	0.00	0.00
Import Site 26	600	1620000297228	Export Site 17	590	1620000297237	Site 26	0.050	25.49	1.44	1.44	0.000	0.00	0.00	0.00

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 27	980	1620000390840	Export Site 18	990	1620000390850	Site 27	0.070	1.62	1.35	1.35	0.000	0.00	0.00	0.00
Import Site 28	280	1630000474610	Export Site 19	290	1630000474683	Site 28	0.000	58.97	1.12	1.12	0.000	15332.38	0.05	0.05
Import Site 29	260	1630000799836	Export Site 20	270	1630000799845	Site 29	0.287	2.81	1.50	1.50	0.000	584.03	0.05	0.05
Import Site 30	180	1640000177307	Export Site 21	190	1640000177316	Site 30	1.105	127.61	1.29	1.29	0.000	7813.14	0.05	0.05
Import Site 31	200	1640000063195	Export Site 22	210	1640000063200	Site 31	0.000	71324.81	0.87	0.87	0.000	7327.17	0.05	0.05
Import Site 32	140	1640000082620	Export Site 23	150	1640000082630	Site 32	0.287	4.52	1.54	1.54	0.000	677.69	0.05	0.05
Import Site 33	160	1640000082286	Export Site 24	170	1640000082295	Site 33	0.771	16.01	2.00	2.00	0.000	920.76	0.05	0.05
Import Site 34	950	1620000279707		-	-	Site 34	0.043	96155.76	2.98	2.98	0.000	0.00	0.00	0.00
Import Site 35	910	1600000169151		-	-	Site 35	0.381	10193.75	4.01	4.01	0.000	0.00	0.00	0.00
Import Site 36	109	1630000015567		-	-	Site 36	5.206	63086.65	3.79	3.79	0.000	0.00	0.00	0.00
Import Site 37	119	1630000031105		-	-	Site 37	5.242	34294.91	5.09	5.09	0.000	0.00	0.00	0.00
Import Site 38	129	1600000148392		-	-	Site 38	0.735	10396.22	1.76	1.76	0.000	0.00	0.00	0.00
Import Site 39	139	1600000136244		-	-	Site 39	2.217	66052.91	3.41	3.41	0.000	0.00	0.00	0.00
Import Site 40	149	1620001231510		-	-	Site 40	2.035	37338.00	3.72	3.72	0.000	0.00	0.00	0.00
Import Site 41	419	1600000138108		-	-	Site 41	2.043	10396.22	3.37	3.37	0.000	0.00	0.00	0.00
Import Site 42	169	1600000132620		-	-	Site 42	2.002	62276.77	4.04	4.04	0.000	0.00	0.00	0.00
Import Site 43	179	1620000531564		-	-	Site 43	4.695	34294.91	3.45	3.45	0.000	0.00	0.00	0.00
Import Site 44	189	1600000137841		-	-	Site 44	2.108	41872.84	1.69	1.69	0.000	0.00	0.00	0.00

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 45	199	1600000134831		-	-	Site 45	0.670	43975.19	3.40	3.40	0.000	0.00	0.00	0.00
Import Site 46	209	1600000134901		-	-	Site 46	0.761	62074.30	4.05	4.05	0.000	0.00	0.00	0.00
Import Site 47	219	1600000155460		-	-	Site 47	0.212	11832.68	1.15	1.15	0.000	0.00	0.00	0.00
Import Site 48	229	1600000132392		-	-	Site 48	0.840	10396.22	2.12	2.12	0.000	0.00	0.00	0.00
Import Site 49	239	1600000134850		-	-	Site 49	0.292	10396.22	3.47	3.47	0.000	0.00	0.00	0.00
Import Site 50	249	1600000137318		-	-	Site 50	0.483	10396.22	1.57	1.57	0.000	0.00	0.00	0.00
Import Site 51	259	1600000137674		-	-	Site 51	4.318	10193.75	4.72	4.72	0.000	0.00	0.00	0.00
Import Site 52	369	1600000137823		-	-	Site 52	2.282	61466.89	3.39	3.39	0.000	0.00	0.00	0.00
Import Site 53	299	1600000134822		-	-	Site 53	0.621	71334.65	3.73	3.73	0.000	0.00	0.00	0.00
Import Site 54	319	1600000133856		-	-	Site 54	2.215	10193.75	2.90	2.90	0.000	0.00	0.00	0.00
Import Site 55	329	1600000138924		-	-	Site 55	1.626	10396.22	4.55	4.55	0.000	0.00	0.00	0.00
Import Site 56	339	1600000135064		-	-	Site 56	4.544	34092.44	3.86	3.86	0.000	0.00	0.00	0.00
Import Site 57	349	1600000132036		-	-	Site 57	3.114	43575.21	2.55	2.55	0.000	0.00	0.00	0.00
Import Site 58	359	1600000132045		-	-	Site 58	0.341	66535.15	3.67	3.67	0.000	0.00	0.00	0.00
Import Site 59	269	1600000138311		-	-	Site 59	1.158	68600.80	2.98	2.98	0.000	0.00	0.00	0.00
Import Site 60	529	1600000177747		-	-	Site 60	4.051	10396.22	5.98	5.98	0.000	0.00	0.00	0.00
Import Site 61	389	1600000139087	Export Site 25	499	1620000174048	Site 61	4.578	10087.78	3.73	3.73	0.000	0.00	0.00	0.00
Import Site 62	439	1620000418238	Export Site 26	479	1620000366875	Site 62	2.360	1.61	1.17	1.17	0.000	200.86	0.05	0.05

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 63	159	1620000370375	Export Site 27	489	1620000370366	Site 63	0.650	35165.24	3.73	3.73	0.000	0.00	0.00	0.00
Import Site 64	110	1640000199737	Export Site 28	120	1640000199746	Site 64	1.047	27.80	3.08	3.08	0.000	1354.47	0.05	0.05
Import Site 65	220	1640000264119	Export Site 29	230	1640000264128	Site 65	0.457	18.91	2.99	2.99	0.000	504.19	0.05	0.05
Import Site 66	080	1640000264146	Export Site 30	090	1640000264155	Site 66	0.450	44.92	1.66	1.66	0.000	849.42	0.05	0.05
Import Site 67	040	1640000295385	Export Site 31	050	1640000295394	Site 67	0.767	21.80	2.09	2.09	0.000	1668.06	0.05	0.05
Import Site 68	060	1640000319177	Export Site 32	070	1640000319159	Site 68	0.496	6.50	1.91	1.91	0.000	410.53	0.05	0.05
Import Site 69	068	1640000319186	Export Site 33	078	1640000319168	Site 69	0.496	6.50	1.85	1.85	0.000	410.53	0.05	0.05
Import Site 70	020	1640000408836	Export Site 34	030	1640000408845	Site 70	0.562	113.84	1.18	1.18	0.000	13774.10	0.05	0.05
Import Site 71	010	1640000478026	Export Site 35	100	1640000478035	Site 71	0.651	25.17	3.41	3.41	0.000	6756.07	0.05	0.05
Import Site 72	088	1640000458483	Export Site 36	098	1640000458517	Site 72	0.434	9.79	3.05	3.05	0.000	1467.94	0.05	0.05
Import Site 73	237	1640000618819	Export Site 37	227	1640000618828	Site 73	0.298	60.17	3.52	3.52	0.000	3008.61	0.05	0.05
Import Site 74	257	1640000553612	Export Site 38	247	1640000553621	Site 74	0.081	20.74	1.18	1.18	0.000	3578.39	0.05	0.05
Import Site 75	277	1640000541148	Export Site 39	267	1640000541157	Site 75	0.434	32.41	3.09	3.09	0.000	2074.48	0.05	0.05
Import Site 76	297	1640000541166	Export Site 40	287	1640000582320	Site 76	1.450	7.45	4.52	4.52	0.000	409.58	0.05	0.05
Import Site 77	187	1640000541732	Export Site 41	177	1640000541741	Site 77	0.426	4.76	3.26	3.26	0.000	412.26	0.05	0.05
Import Site 78	207	1640000605243	Export Site 42	197	1640000605252	Site 78	0.709	9.31	1.97	1.97	0.000	407.72	0.05	0.05
Import Site 79	MSID 7039, 7040	MSID 7039, 7040	Export Site 43	MSID 7039, 7040	MSID 7039, 7040	Site 79	0.000	3659.11	1.10	1.10	-0.198	17482.40	0.05	0.05

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 80	MSID 7107	MSID 7107	Export Site 44	MSID 7107	MSID 7107	Site 80	0.000	67324.87	0.99	0.99	0.000	0.00	0.00	0.00
Import Site 81	MSID 7252	MSID 7252	Export Site 45	MSID 7252	MSID 7252	Site 81	0.000	46.36	1.03	1.03	0.000	3477.22	0.05	0.05
Import Site 82	MSID 7249	MSID 7249	Export Site 46	MSID 7249	MSID 7249	Site 82	0.000	38.09	1.02	1.02	0.000	3485.49	0.05	0.05
Import Site 83	MSID 7241, 7242	MSID 7241, 7242	Export Site 47	MSID 7241, 7242	MSID 7241, 7242	Site 83	0.012	50.13	1.17	1.17	0.000	0.00	0.00	0.00
Import Site 84	MSID 7244	MSID 7244	Export Site 48	MSID 7244	MSID 7244	Site 84	0.000	16.64	1.01	1.01	0.000	0.00	0.00	0.00
Import Site 85	MSID 2037, 2038	MSID 2037, 2038		-	-	Site 85	3.050	65647.97	3.70	3.70	0.000	0.00	0.00	0.00
Import Site 86	MSID 7156	MSID 7156		-	-	Site 86	0.717	9991.28	1.18	1.18	0.000	0.00	0.00	0.00
Import Site 87	MSID 0437	MSID 0437		-	-	Site 87	0.396	33687.50	4.06	4.06	0.000	0.00	0.00	0.00
Import Site 88	IDNO1	IDNO1 (PENL870)		-	-	Site 88	0.049	10737.60	2.87	2.87	0.000	0.00	0.00	0.00

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
	(PENL870)													
Import Site 89	IDNO2 (PENL869)	IDNO2 (PENL869)		-	-	Site 89	0.049	31461.06	1.59	1.59	0.000	0.00	0.00	0.00
Import Site 90	307	1640000565627	Export Site 49	317	1640000565636	Site 90	0.120	41.22	2.04	2.04	-0.438	1648.65	0.05	0.05
Import Site 91	327	1640000565645	Export Site 50	337	1640000565654	Site 91	0.163	10.17	1.45	1.45	-0.240	406.86	0.05	0.05
Import Site 92	347	1640000546261	Export Site 51	357	1640000546270	Site 92	0.004	10.17	1.98	1.98	-0.163	406.86	0.05	0.05
Import Site 93	367	1640000565478	Export Site 52	377	1640000565487	Site 93	2.752	12.64	1.57	1.57	-3.384	404.39	0.05	0.05
Import Site 94	387	1640000565501	Export Site 53	397	1640000565510	Site 94	2.752	14.38	1.52	1.52	-3.380	402.65	0.05	0.05
Import Site 95	437	1640000598205	Export Site 54	427	1640000598214	Site 95	0.709	150.69	1.89	1.89	0.000	18715.29	0.05	0.05
Import Site 96	457	1640000580634		-	-	Site 96	0.204	61896.01	3.65	3.65	0.000	0.00	0.00	0.00
Import Site 97	417	1640000625036	Export Site 55	407	1640000625045	Site 97	0.430	19.95	3.15	3.15	0.000	897.73	0.05	0.05
Import Site 98	467	1640000639298	Export Site 56	477	1640000639312	Site 98	0.609	8.22	2.46	2.46	-2.651	939.16	0.05	0.05
Import Site 99	108	1640000671751	Export Site 57	118	1640000671770	Site 99	0.609	16.19	2.46	2.46	-2.651	740.26	0.05	0.05
Import Site 100	539	1640000565097		-	-	Site 100	2.749	46034.42	1.48	1.48	0.000	0.00	0.00	0.00
Import Site 101	549	1640000624636		-	-	Site 101	1.640	72268.87	2.27	2.27	0.000	0.00	0.00	0.00
Import Site 102	128	1640000612659	Export Site 58	138	1640000612668	Site 102	0.004	5.71	2.50	2.50	-0.264	411.32	0.05	0.05
Import Site 103	599	1620000588296	Export Site 59	609	1620000588301	Site 103	2.316	10352.84	2.25	2.25	-2.547	43.39	0.05	0.05
Import Site 104	579	1640000603060	Export Site 60	589	1640000603088	Site 104	0.722	65474.73	1.38	1.38	0.000	3473.28	0.05	0.05

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 105	487	1640000695390	Export Site 61	497	1640000695441	Site 105	0.217	496.58	1.07	1.07	-0.271	496.58	0.05	0.05
Import Site 106	517	1640000701732	Export Site 62	527	1640000701723	Site 106	0.721	9.93	2.00	2.00	0.000	407.10	0.05	0.05
Import Site 107	408	1640000951044	Export Site 63	418	1640000951053	Site 107	0.244	288.07	2.10	2.10	-1.547	288.07	0.05	0.05
Import Site 108	MSID 7358, 7359	MSID 7358, 7359	Export Site 64	MSID 7358, 7359	MSID 7358, 7359	Site 108	1.116	17.00	2.16	2.16	-2.500	400.03	0.05	0.05
Import Site 109	148	1640000796628	Export Site 65	158	1640000796637	Site 109	1.981	5.15	2.53	2.53	-4.132	411.88	0.05	0.05
Import Site 110	MSID 7362, 7363	MSID 7362, 7363	Export Site 66	MSID 7362, 7363	MSID 7362, 7363	Site 110	0.496	17.00	2.06	2.06	-1.740	400.03	0.05	0.05
Import Site 111	MSID 7364, 7365	MSID 7364, 7365	Export Site 67	MSID 7364, 7365	MSID 7364, 7365	Site 111	0.078	29.10	1.40	1.40	-0.407	684.92	0.05	0.05
Import Site 112	IDNO3	IDNO 3 (tbc)	Export Site 68	IDNO4	IDNO 4 (tbc)	Site 112	0.000	314.58	0.97	0.97	-0.434	314.58	0.05	0.05
Import Site 113	308	1640000855292	Export Site 69	318	1640000855308	Site 113	1.558	39.20	1.84	1.84	-2.488	1650.67	0.05	0.05
Import Site 114	208	1640000796585	Export Site 70	218	1640000796619	Site 114	0.039	50.29	2.37	2.37	-1.764	1547.47	0.05	0.05
Import Site 115	288	1640000850364	Export Site 71	298	1640000850373	Site 115	0.244	28.13	2.10	2.10	-1.547	1184.42	0.05	0.05
Import Site 116	188	1640000795410	Export Site 72	198	1640000814427	Site 116	0.000	738.86	1.17	1.17	0.000	738.86	0.05	0.05
Import Site 117	248	1640000850824	Export Site 73	258	1640000850842	Site 117	0.609	444.52	2.62	2.62	-2.651	444.52	0.05	0.05

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
Import Site 118	268	1640000850391	Export Site 74	278	1640000850407	Site 118	0.000	24.44	4.14	4.14	-4.194	1029.01	0.05	0.05
Import Site 119	MSID 7350	MSID 7350	Export Site 75	MSID 7350	MSID 7350	Site 119	0.000	0.00	1.20	1.20	-0.101	0.00	0.05	0.05
Import Site 120	168	1640000796804	Export Site 76	178	1640000796813	Site 120	0.000	15.04	1.48	1.48	-0.434	633.22	0.05	0.05
Import Site 121	tbc	tbc	Export Site 77	tbc	tbc	Site 121	1.965	143.08	2.28	2.28	-3.523	2289.28	0.05	0.05
Import Site 122	328	1640000892754	Export Site 78	338	1640000892763	Site 122	0.031	2432.36	1.56	1.56	-0.616	2432.36	0.05	0.05
Import Site 123	348	1640000904921	Export Site 79	358	1640000904930	Site 123	1.504	16.66	2.91	2.91	-3.953	1665.96	0.05	0.05
Import Site 124	368	1640000905093	Export Site 80	378	1640000905109	Site 124	0.031	26.26	1.56	1.56	-0.616	4202.04	0.05	0.05
Import Site 125	tbc	tbc	Export Site 81	tbc	tbc	Site 125	0.426	9.60	2.70	2.70	-2.585	768.07	0.05	0.05
Import Site 126	388	1640000950254	Export Site 82	398	1640000950263	Site 126	1.508	23.11	1.18	1.18	-1.508	924.27	0.05	0.05

Annex 3 - Schedule of charges for use of the distribution system by preserved/additional LLF classes

n/a

Annex 4 - Charges applied to LDNOs with LV and HV end-users

Time Bands for LV and HV Designated Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16:00 to 19:00	09:00 to 16:00 19:00 to 20:30	00.00 - 09.00 20.30 - 24.00
Saturday and Sunday All Year		16:00 to 19:00	00.00 - 16.00 19.00 - 24.00
Notes	All the above times are in UK Clock time		

Time Bands for Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) March to October Inclusive		09.00 - 20.30	00.00 - 09.00 20.30 - 24.00
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 to 19:00	09:00 - 16.00 19.00 - 20.30	00.00 - 09.00 20.30 - 24.00
Saturday and Sunday All year		16:00 to 19:00	00.00 - 16.00 19.00 - 24.00

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO LV: Domestic Aggregated with Residual	LV010, LV020, LV100	0, 1, 2 or 5-8	5.440	0.988	0.139	16.49			
LDNO LV: Domestic Aggregated (Related MPAN)	LV030	2	5.440	0.988	0.139				
LDNO LV: Non-Domestic Aggregated No Residual		0, 3, 4 or 5-8	6.273	1.139	0.161	2.84			
LDNO LV: Non-Domestic Aggregated Band 1	LV040, LV050, LV070, LV110	0, 3, 4 or 5-8	6.273	1.139	0.161	4.84			
LDNO LV: Non-Domestic Aggregated Band 2		0, 3, 4 or 5-8	6.273	1.139	0.161	12.72			
LDNO LV: Non-Domestic Aggregated Band 3		0, 3, 4 or 5-8	6.273	1.139	0.161	27.34			
LDNO LV: Non-Domestic Aggregated Band 4		0, 3, 4 or 5-8	6.273	1.139	0.161	79.13			
LDNO LV: Non-Domestic Aggregated (related MPAN)	LV060	4	6.273	1.139	0.161				
LDNO LV: LV Site Specific No Residual	LV125	0	4.588	0.765	0.111	11.43	2.04	3.09	0.099
LDNO LV: LV Site Specific Band 1	LV120	0	4.588	0.765	0.111	111.74	2.04	3.09	0.099

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO LV: LV Site Specific Band 2		0	4.588	0.765	0.111	261.56	2.04	3.09	0.099
LDNO LV: LV Site Specific Band 3		0	4.588	0.765	0.111	419.40	2.04	3.09	0.099
LDNO LV: LV Site Specific Band 4		0	4.588	0.765	0.111	867.96	2.04	3.09	0.099
LDNO LV: Unmetered Supplies	LV150, LV160, LV170, LV180, LV190	0, 1 or 8	10.901	2.571	1.973				
LDNO LV: LV Generation Aggregated	LV200	0 or 8	-6.519	-1.184	-0.167	0.00			
LDNO LV: LV Generation Site Specific	LV220, LV230	0 or 8	-6.519	-1.184	-0.167	0.00			0.126
LDNO HV: Domestic Aggregated with Residual	HV010, HV020, HV100	0, 1, 2 or 5-8	3.815	0.693	0.098	14.39			
LDNO HV: Domestic Aggregated (Related MPAN)	HV030	2	3.815	0.693	0.098				
LDNO HV: Non-Domestic Aggregated No Residual		0, 3, 4 or 5-8	4.400	0.799	0.113	2.00			
LDNO HV: Non-Domestic Aggregated Band 1	HV040, HV050, HV070, HV110	0, 3, 4 or 5-8	4.400	0.799	0.113	3.41			
LDNO HV: Non-Domestic Aggregated Band 2		0, 3, 4 or 5-8	4.400	0.799	0.113	8.94			
LDNO HV: Non-Domestic Aggregated Band 3		0, 3, 4 or 5-8	4.400	0.799	0.113	19.18			
LDNO HV: Non-Domestic Aggregated Band 4		0, 3, 4 or 5-8	4.400	0.799	0.113	55.51			
LDNO HV: Non-Domestic Aggregated (related MPAN)	HV060	4	4.400	0.799	0.113				

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO HV: LV Site Specific No Residual	HV125	0	3.218	0.536	0.078	8.03	1.43	2.17	0.069
LDNO HV: LV Site Specific Band 1	HV120	0	3.218	0.536	0.078	78.38	1.43	2.17	0.069
LDNO HV: LV Site Specific Band 2		0	3.218	0.536	0.078	183.45	1.43	2.17	0.069
LDNO HV: LV Site Specific Band 3		0	3.218	0.536	0.078	294.15	1.43	2.17	0.069
LDNO HV: LV Site Specific Band 4		0	3.218	0.536	0.078	608.74	1.43	2.17	0.069
LDNO HV: LV Sub Site Specific No Residual	HV135	0	4.113	0.623	0.093	40.91	2.33	3.99	0.081
LDNO HV: LV Sub Site Specific Band 1	HV130	0	4.113	0.623	0.093	152.37	2.33	3.99	0.081
LDNO HV: LV Sub Site Specific Band 2		0	4.113	0.623	0.093	318.84	2.33	3.99	0.081
LDNO HV: LV Sub Site Specific Band 3		0	4.113	0.623	0.093	494.23	2.33	3.99	0.081
LDNO HV: LV Sub Site Specific Band 4		0	4.113	0.623	0.093	992.66	2.33	3.99	0.081
LDNO HV: HV Site Specific No Residual	HV145	0	3.349	0.422	0.068	106.31	2.70	4.91	0.059
LDNO HV: HV Site Specific Band 1	HV140	0	3.349	0.422	0.068	946.99	2.70	4.91	0.059
LDNO HV: HV Site Specific Band 2		0	3.349	0.422	0.068	2854.22	2.70	4.91	0.059
LDNO HV: HV Site Specific Band 3		0	3.349	0.422	0.068	5866.60	2.70	4.91	0.059
LDNO HV: HV Site Specific Band 4		0	3.349	0.422	0.068	13539.42	2.70	4.91	0.059
LDNO HV: Unmetered Supplies	HV150, HV160, HV170, HV180, HV190	0, 1 or 8	7.645	1.803	1.384				
LDNO HV: LV	HV200	0 or 8	-6.519	-1.184	-0.167	0.00			

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Generation Aggregated									
LDNO HV: LV Sub Generation Aggregated	HV210	**0 or 8**	-5.430	-0.922	-0.133	0.00			
LDNO HV: LV Generation Site Specific	HV220, HV230	**0**	-6.519	-1.184	-0.167	0.00			0.126
LDNO HV: LV Sub Generation Site Specific	HV240, HV250	**0**	-5.430	-0.922	-0.133	0.00			0.106
LDNO HV: HV Generation Site Specific	HV260, HV270	**0**	-4.142	-0.601	-0.091	0.00			0.080
LDNO HVplus: Domestic Aggregated with Residual	HP010, HP020, HP100	**0, 1, 2 or 5-8**	3.049	0.554	0.078	13.40			
LDNO HVplus: Domestic Aggregated (Related MPAN)	HP030	**2**	3.049	0.554	0.078				
LDNO HVplus: Non-Domestic Aggregated No Residual		**0, 3, 4 or 5-8**	3.517	0.639	0.090	1.61			
LDNO HVplus: Non-Domestic Aggregated Band 1	HP040, HP050, HP070, HP110	**0, 3, 4 or 5-8**	3.517	0.639	0.090	2.73			
LDNO HVplus: Non-Domestic Aggregated Band 2		**0, 3, 4 or 5-8**	3.517	0.639	0.090	7.15			
LDNO HVplus: Non-Domestic Aggregated Band 3		**0, 3, 4 or 5-8**	3.517	0.639	0.090	15.34			
LDNO HVplus: Non-Domestic Aggregated Band 4		**0, 3, 4 or 5-8**	3.517	0.639	0.090	44.38			
LDNO HVplus: Non-	HP060	**4**	3.517	0.639	0.090				

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Domestic Aggregated (related MPAN)									
LDNO HVplus: LV Site Specific No Residual	HP125	0	2.572	0.429	0.062	6.43	1.15	1.73	0.055
LDNO HVplus: LV Site Specific Band 1	HP120	0	2.572	0.429	0.062	62.66	1.15	1.73	0.055
LDNO HVplus: LV Site Specific Band 2		0	2.572	0.429	0.062	146.65	1.15	1.73	0.055
LDNO HVplus: LV Site Specific Band 3		0	2.572	0.429	0.062	235.13	1.15	1.73	0.055
LDNO HVplus: LV Site Specific Band 4		0	2.572	0.429	0.062	486.59	1.15	1.73	0.055
LDNO HVplus: LV Sub Site Specific No Residual	HP135	0	3.222	0.488	0.073	32.05	1.82	3.12	0.064
LDNO HVplus: LV Sub Site Specific Band 1	HP130	0	3.222	0.488	0.073	119.36	1.82	3.12	0.064
LDNO HVplus: LV Sub Site Specific Band 2		0	3.222	0.488	0.073	249.76	1.82	3.12	0.064
LDNO HVplus: LV Sub Site Specific Band 3		0	3.222	0.488	0.073	387.14	1.82	3.12	0.064
LDNO HVplus: LV Sub Site Specific Band 4		0	3.222	0.488	0.073	777.56	1.82	3.12	0.064
LDNO HVplus: HV Site Specific No Residual	HP145	0	2.596	0.327	0.053	82.41	2.09	3.81	0.046
LDNO HVplus: HV Site Specific Band 1	HP140	0	2.596	0.327	0.053	733.99	2.09	3.81	0.046
LDNO HVplus: HV Site		0	2.596	0.327	0.053	2212.24	2.09	3.81	0.046

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Specific Band 2									
LDNO HVplus: HV Site Specific Band 3		**0**	2.596	0.327	0.053	4547.06	2.09	3.81	0.046
LDNO HVplus: HV Site Specific Band 4		**0**	2.596	0.327	0.053	10494.07	2.09	3.81	0.046
LDNO HVplus: Unmetered Supplies	HP150, HP160, HP170, HP180, HP190	**0, 1 or 8**	6.111	1.441	1.106				
LDNO HVplus: LV Generation Aggregated	HP200	**0 or 8**	-3.696	-0.671	-0.095	0.00			
LDNO HVplus: LV Sub Generation Aggregated	HP210	**0 or 8**	-3.602	-0.612	-0.088	0.00			
LDNO HVplus: LV Generation Site Specific	HP220, HP230	**0**	-3.696	-0.671	-0.095	0.00			0.071
LDNO HVplus: LV Sub Generation Site Specific	HP240, HP250	**0**	-3.602	-0.612	-0.088	0.00			0.071
LDNO HVplus: HV Generation Site Specific	HP260, HP270	**0**	-4.142	-0.601	-0.091	8.36			0.080
LDNO EHV: Domestic Aggregated with Residual	EH010, EH020, EH100	**0, 1, 2 or 5-8**	2.413	0.438	0.062	12.58			
LDNO EHV: Domestic Aggregated (Related MPAN)	EH030	**2**	2.413	0.438	0.062				
LDNO EHV: Non-Domestic Aggregated No Residual		**0, 3, 4 or 5-8**	2.783	0.505	0.071	1.28			
LDNO EHV: Non-Domestic Aggregated Band 1	EH040, EH050, EH070, EH110	**0, 3, 4 or 5-8**	2.783	0.505	0.071	2.17			
LDNO EHV: Non-Domestic		**0, 3, 4 or 5-8**	2.783	0.505	0.071	5.67			

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Aggregated Band 2									
LDNO EHV: Non-Domestic Aggregated Band 3		**0, 3, 4 or 5-8**	2.783	0.505	0.071	12.15			
LDNO EHV: Non-Domestic Aggregated Band 4		**0, 3, 4 or 5-8**	2.783	0.505	0.071	35.13			
LDNO EHV: Non-Domestic Aggregated (related MPAN)	EH060	**4**	2.783	0.505	0.071				
LDNO EHV: LV Site Specific No Residual	EH125	**0**	2.036	0.339	0.049	5.09	0.91	1.37	0.044
LDNO EHV: LV Site Specific Band 1	EH120	**0**	2.036	0.339	0.049	49.60	0.91	1.37	0.044
LDNO EHV: LV Site Specific Band 2		**0**	2.036	0.339	0.049	116.07	0.91	1.37	0.044
LDNO EHV: LV Site Specific Band 3		**0**	2.036	0.339	0.049	186.10	0.91	1.37	0.044
LDNO EHV: LV Site Specific Band 4		**0**	2.036	0.339	0.049	385.12	0.91	1.37	0.044
LDNO EHV: LV Sub Site Specific No Residual	EH135	**0**	2.550	0.386	0.058	25.38	1.44	2.47	0.050
LDNO EHV: LV Sub Site Specific Band 1	EH130	**0**	2.550	0.386	0.058	94.48	1.44	2.47	0.050
LDNO EHV: LV Sub Site Specific Band 2		**0**	2.550	0.386	0.058	197.68	1.44	2.47	0.050
LDNO EHV: LV Sub Site Specific Band 3		**0**	2.550	0.386	0.058	306.42	1.44	2.47	0.050
LDNO EHV: LV Sub Site Specific Band 4		**0**	2.550	0.386	0.058	615.42	1.44	2.47	0.050
LDNO EHV: HV Site Specific No Residual	EH145	**0**	2.055	0.259	0.042	65.23	1.66	3.01	0.036
LDNO EHV: HV Site Specific Band 1	EH140	**0**	2.055	0.259	0.042	580.93	1.66	3.01	0.036

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO EHV: HV Site Specific Band 2		0	2.055	0.259	0.042	1750.91	1.66	3.01	0.036
LDNO EHV: HV Site Specific Band 3		0	2.055	0.259	0.042	3598.82	1.66	3.01	0.036
LDNO EHV: HV Site Specific Band 4		0	2.055	0.259	0.042	8305.63	1.66	3.01	0.036
LDNO EHV: Unmetered Supplies	EH150, EH160, EH170, EH180, EH190	0, 1 or 8	4.836	1.141	0.876				
LDNO EHV: LV Generation Aggregated	EH200	0 or 8	-2.925	-0.531	-0.075	0.00			
LDNO EHV: LV Sub Generation Aggregated	EH210	0 or 8	-2.851	-0.484	-0.070	0.00			
LDNO EHV: LV Generation Site Specific	EH220, EH230	0	-2.925	-0.531	-0.075	0.00			0.057
LDNO EHV: LV Sub Generation Site Specific	EH240, EH250	0	-2.851	-0.484	-0.070	0.00			0.056
LDNO EHV: HV Generation Site Specific	EH260, EH270	0	-3.278	-0.476	-0.072	6.62			0.063
LDNO 132kV/EHV: Domestic Aggregated with Residual	KE010, KE020, KE100	0, 1, 2 or 5-8	2.017	0.366	0.052	12.07			
LDNO 132kV/EHV: Domestic Aggregated (Related MPAN)	KE030	2	2.017	0.366	0.052				
LDNO 132kV/EHV: Non-Domestic Aggregated No Residual		0, 3, 4 or 5-8	2.326	0.422	0.060	1.08			
LDNO 132kV/EHV: Non-Domestic Aggregated Band 1	KE040, KE050, KE070, KE110	0, 3, 4 or 5-8	2.326	0.422	0.060	1.82			
LDNO 132kV/EHV: Non-		0, 3, 4 or 5-8	2.326	0.422	0.060	4.74			

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Domestic Aggregated Band 2									
LDNO 132kV/EHV: Non-Domestic Aggregated Band 3		0, 3, 4 or 5-8	2.326	0.422	0.060	10.16			
LDNO 132kV/EHV: Non-Domestic Aggregated Band 4		0, 3, 4 or 5-8	2.326	0.422	0.060	29.36			
LDNO 132kV/EHV: Non-Domestic Aggregated (related MPAN)	KE060	4	2.326	0.422	0.060				
LDNO 132kV/EHV: LV Site Specific No Residual	KE125	0	1.701	0.284	0.041	4.26	0.76	1.15	0.037
LDNO 132kV/EHV: LV Site Specific Band 1	KE120	0	1.701	0.284	0.041	41.46	0.76	1.15	0.037
LDNO 132kV/EHV: LV Site Specific Band 2		0	1.701	0.284	0.041	97.00	0.76	1.15	0.037
LDNO 132kV/EHV: LV Site Specific Band 3		0	1.701	0.284	0.041	155.53	0.76	1.15	0.037
LDNO 132kV/EHV: LV Site Specific Band 4		0	1.701	0.284	0.041	321.84	0.76	1.15	0.037
LDNO 132kV/EHV: LV Sub Site Specific No Residual	KE135	0	2.131	0.323	0.048	21.21	1.20	2.06	0.042
LDNO 132kV/EHV: LV Sub Site Specific Band 1	KE130	0	2.131	0.323	0.048	78.96	1.20	2.06	0.042
LDNO 132kV/EHV: LV Sub Site Specific Band 2		0	2.131	0.323	0.048	165.20	1.20	2.06	0.042
LDNO 132kV/EHV: LV Sub Site Specific Band 3		0	2.131	0.323	0.048	256.07	1.20	2.06	0.042

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO 132kV/EHV: LV Sub Site Specific Band 4		0	2.131	0.323	0.048	514.29	1.20	2.06	0.042
LDNO 132kV/EHV: HV Site Specific No Residual	KE145	0	1.717	0.216	0.035	54.52	1.38	2.52	0.030
LDNO 132kV/EHV: HV Site Specific Band 1	KE140	0	1.717	0.216	0.035	485.47	1.38	2.52	0.030
LDNO 132kV/EHV: HV Site Specific Band 2		0	1.717	0.216	0.035	1463.17	1.38	2.52	0.030
LDNO 132kV/EHV: HV Site Specific Band 3		0	1.717	0.216	0.035	3007.40	1.38	2.52	0.030
LDNO 132kV/EHV: HV Site Specific Band 4		0	1.717	0.216	0.035	6940.71	1.38	2.52	0.030
LDNO 132kV/EHV: Unmetered Supplies	KE150, KE160, KE170, KE180, KE190	0, 1 or 8	4.042	0.953	0.732				
LDNO 132kV/EHV: LV Generation Aggregated	KE200	0 or 8	-2.444	-0.444	-0.063	0.00			
LDNO 132kV/EHV: LV Sub Generation Aggregated	KE210	0 or 8	-2.383	-0.405	-0.058	0.00			
LDNO 132kV/EHV: LV Generation Site Specific	KE220, KE230	0	-2.444	-0.444	-0.063	0.00			0.047
LDNO 132kV/EHV: LV Sub Generation Site Specific	KE240, KE250	0	-2.383	-0.405	-0.058	0.00			0.047
LDNO 132kV/EHV: HV Generation Site Specific	KE260, KE270	0	-2.739	-0.397	-0.060	5.53			0.053
LDNO 132kV: Domestic Aggregated	KV010, KV020, KV100	0, 1, 2 or 5-8	1.519	0.276	0.039	11.43			

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
with Residual									
LDNO 132kV: Domestic Aggregated (Related MPAN)	KV030	2	1.519	0.276	0.039				
LDNO 132kV: Non-Domestic Aggregated No Residual		0, 3, 4 or 5-8	1.752	0.318	0.045	0.82			
LDNO 132kV: Non-Domestic Aggregated Band 1	KV040, KV050, KV070, KV110	0, 3, 4 or 5-8	1.752	0.318	0.045	1.38			
LDNO 132kV: Non-Domestic Aggregated Band 2		0, 3, 4 or 5-8	1.752	0.318	0.045	3.58			
LDNO 132kV: Non-Domestic Aggregated Band 3		0, 3, 4 or 5-8	1.752	0.318	0.045	7.66			
LDNO 132kV: Non-Domestic Aggregated Band 4		0, 3, 4 or 5-8	1.752	0.318	0.045	22.13			
LDNO 132kV: Non-Domestic Aggregated (related MPAN)	KV060	4	1.752	0.318	0.045				
LDNO 132kV: LV Site Specific No Residual	KV125	0	1.282	0.214	0.031	3.22	0.57	0.86	0.028
LDNO 132kV: LV Site Specific Band 1	KV120	0	1.282	0.214	0.031	31.24	0.57	0.86	0.028
LDNO 132kV: LV Site Specific Band 2		0	1.282	0.214	0.031	73.08	0.57	0.86	0.028
LDNO 132kV: LV Site Specific Band 3		0	1.282	0.214	0.031	117.17	0.57	0.86	0.028

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO 132kV: LV Site Specific Band 4		0	1.282	0.214	0.031	242.45	0.57	0.86	0.028
LDNO 132kV: LV Sub Site Specific No Residual	KV135	0	1.605	0.243	0.036	15.99	0.91	1.56	0.032
LDNO 132kV: LV Sub Site Specific Band 1	KV130	0	1.605	0.243	0.036	59.49	0.91	1.56	0.032
LDNO 132kV: LV Sub Site Specific Band 2		0	1.605	0.243	0.036	124.46	0.91	1.56	0.032
LDNO 132kV: LV Sub Site Specific Band 3		0	1.605	0.243	0.036	192.91	0.91	1.56	0.032
LDNO 132kV: LV Sub Site Specific Band 4		0	1.605	0.243	0.036	387.42	0.91	1.56	0.032
LDNO 132kV: HV Site Specific No Residual	KV145	0	1.293	0.163	0.026	41.08	1.04	1.90	0.023
LDNO 132kV: HV Site Specific Band 1	KV140	0	1.293	0.163	0.026	365.72	1.04	1.90	0.023
LDNO 132kV: HV Site Specific Band 2		0	1.293	0.163	0.026	1102.23	1.04	1.90	0.023
LDNO 132kV: HV Site Specific Band 3		0	1.293	0.163	0.026	2265.50	1.04	1.90	0.023
LDNO 132kV: HV Site Specific Band 4		0	1.293	0.163	0.026	5228.49	1.04	1.90	0.023
LDNO 132kV: Unmetered Supplies	KV150, KV160, KV170, KV180, KV190	0, 1 or 8	3.045	0.718	0.551				
LDNO 132kV: LV Generation Aggregated	KV200	0 or 8	-1.841	-0.334	-0.047	0.00			
LDNO 132kV: LV Sub	KV210	0 or 8	-1.795	-0.305	-0.044	0.00			

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Generation Aggregated									
LDNO 132kV: LV Generation Site Specific	KV220, KV230	**0**	-1.841	-0.334	-0.047	0.00			0.036
LDNO 132kV: LV Sub Generation Site Specific	KV240, KV250	**0**	-1.795	-0.305	-0.044	0.00			0.035
LDNO 132kV: HV Generation Site Specific	KV260, KV270	**0**	-2.063	-0.299	-0.046	4.17			0.040
LDNO 0000: Domestic Aggregated with Residual	ZZ010, ZZ020, ZZ100	**0, 1, 2 or 5-8**	0.542	0.098	0.014	10.16			
LDNO 0000: Domestic Aggregated (Related MPAN)	ZZ030	**2**	0.542	0.098	0.014				
LDNO 0000: Non-Domestic Aggregated No Residual		**0, 3, 4 or 5-8**	0.625	0.114	0.016	0.32			
LDNO 0000: Non-Domestic Aggregated Band 1	ZZ040, ZZ050, ZZ070, ZZ110	**0, 3, 4 or 5-8**	0.625	0.114	0.016	0.52			
LDNO 0000: Non-Domestic Aggregated Band 2		**0, 3, 4 or 5-8**	0.625	0.114	0.016	1.30			
LDNO 0000: Non-Domestic Aggregated Band 3		**0, 3, 4 or 5-8**	0.625	0.114	0.016	2.76			
LDNO 0000: Non-Domestic Aggregated Band 4		**0, 3, 4 or 5-8**	0.625	0.114	0.016	7.92			
LDNO 0000: Non-Domestic Aggregated (related MPAN)	ZZ060	**4**	0.625	0.114	0.016				
LDNO 0000: LV Site Specific No Residual	ZZ125	**0**	0.457	0.076	0.011	1.17	0.20	0.31	0.010

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO 0000: LV Site Specific Band 1	ZZ120	0	0.457	0.076	0.011	11.17	0.20	0.31	0.010
LDNO 0000: LV Site Specific Band 2		0	0.457	0.076	0.011	26.11	0.20	0.31	0.010
LDNO 0000: LV Site Specific Band 3		0	0.457	0.076	0.011	41.84	0.20	0.31	0.010
LDNO 0000: LV Site Specific Band 4		0	0.457	0.076	0.011	86.55	0.20	0.31	0.010
LDNO 0000: LV Sub Site Specific No Residual	ZZ135	0	0.573	0.087	0.013	5.73	0.32	0.56	0.011
LDNO 0000: LV Sub Site Specific Band 1	ZZ130	0	0.573	0.087	0.013	21.25	0.32	0.56	0.011
LDNO 0000: LV Sub Site Specific Band 2		0	0.573	0.087	0.013	44.44	0.32	0.56	0.011
LDNO 0000: LV Sub Site Specific Band 3		0	0.573	0.087	0.013	68.87	0.32	0.56	0.011
LDNO 0000: LV Sub Site Specific Band 4		0	0.573	0.087	0.013	138.28	0.32	0.56	0.011
LDNO 0000: HV Site Specific No Residual	ZZ145	0	0.462	0.058	0.009	14.68	0.37	0.68	0.008
LDNO 0000: HV Site Specific Band 1	ZZ140	0	0.462	0.058	0.009	130.54	0.37	0.68	0.008
LDNO 0000: HV Site Specific Band 2		0	0.462	0.058	0.009	393.37	0.37	0.68	0.008
LDNO 0000: HV Site Specific Band 3		0	0.462	0.058	0.009	808.49	0.37	0.68	0.008
LDNO 0000: HV Site		0	0.462	0.058	0.009	1865.86	0.37	0.68	0.008

Tariff name	Unique billing identifier	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Specific Band 4									
LDNO 0000: Unmetered Supplies	ZZ150, ZZ160, ZZ170, ZZ180, ZZ190	**0, 1 or 8**	1.086	0.256	0.197				
LDNO 0000: LV Generation Aggregated	ZZ200	**0 or 8**	-0.657	-0.119	-0.017	0.00			
LDNO 0000: LV Sub Generation Aggregated	ZZ210	**0 or 8**	-0.640	-0.109	-0.016	0.00			
LDNO 0000: LV Generation Site Specific	ZZ220, ZZ230	**0**	-0.657	-0.119	-0.017	0.00			0.013
LDNO 0000: LV Sub Generation Site Specific	ZZ240, ZZ250	**0**	-0.640	-0.109	-0.016	0.00			0.013
LDNO 0000: HV Generation Site Specific	ZZ260, ZZ270	**0**	-0.736	-0.107	-0.016	1.49			0.014

Annex 5 - Schedule of line loss factors

Electricity North West Limited - Illustrative LLFs for year beginning 1 April 2022				
Time periods	**Period 1**	**Period 2**	**Period 3**	**Period 4**
	Winter Peak	**Winter Daytime**	**Night**	**Other**
Monday to Friday March to October			00:00 - 07:00	07:00 - 00:00
Monday to Friday November to February	16:00 – 19:00	07:00 – 16:00 19:00 – 00:00	00:00 - 07:00	
Saturday and Sunday All Year			00:00 - 07:00	07:00 - 00:00
Notes	All the above times are in UK Clock time			

Generic demand and generation LLFs					
Metered voltage, respective periods and associated LLFCs					
Metered voltage	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Low-voltage network	1.093	1.085	1.073	1.079	11,131,161,171,191,241,31,41,431,441,451,461, 471,481,51,511,531,581,591,61,631,661,751,761, 771,781,791,801,81,811,821,831,841,851,861, 901,91,961,971,981,104,114,124,134,14,144,154, 164,174,184,194,204,214,224,234,24,244,254, 264,274,284,294,304,314,324,334,34,344,354, 364,374,4,414,424,434,44,444,454,464,54,64,74, 84,934,94,944
Low-voltage substation	1.048	1.047	1.047	1.045	102,112,122,132,182,242,32,342,352,362,372,42, 432,462,472,482,52,62,72,752,802,82,842,902, 92,932,942,962,972,982

Generic demand and generation LLFs					
High-voltage network	1.035	1.032	1.027	1.03	103,113,123,133,183,33,333,343,353,363,43,463,473,483,53,63,73,753,803,83,843,93,933,943,973,983
High-voltage substation	1.024	1.023	1.021	1.022	109,119,129,139,149,159,169,179,189,199,209,219,229,239,249,259,269,299,319,329,339,349,359,369,389,419,439,479,489,499,529,539,549,579,589,599,609,619,629,639,649,659,669,679,689,699,709,719,729,739,749,759,769,779,789,799,809
EHV 33 kV	1.019	1.018	1.015	1.017	217,448,458,468,478,488,498,508,518,528,538,548,558,568,578
EHV 132 kV to 33 kV	1.013	1.013	1.011	1.012	
EHV 132 kV	1.009	1.008	1.006	1.007	

EHV site specific LLFs					
Demand					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1	1.027	1.027	1.027	1.027	610
Site 2	1.003	1.003	1.003	1.003	500
Site 3	1.000	1.000	1.000	1.000	650
Site 4	1.048	1.048	1.048	1.048	660
Site 5	1.021	1.021	1.021	1.021	640
Site 6	1.014	1.014	1.014	1.014	700
Site 7	1.013	1.013	1.013	1.013	900
Site 8	1.004	1.004	1.004	1.004	670
Site 9	1.005	1.005	1.005	1.005	320
Site 10	1.018	1.018	1.018	1.018	850

Site 11	1.014	1.014	1.014	1.014	450
Site 12	1.000	1.000	1.000	1.000	460
Site 13	0.999	0.999	0.999	0.999	680
Site 14	1.003	1.003	1.003	1.003	520
Site 15	1.015	1.015	1.015	1.015	530
Site 16	1.022	1.022	1.022	1.022	540
Site 17	1.056	1.056	1.056	1.056	550
Site 18	1.017	1.017	1.017	1.017	810
Site 19	1.010	1.010	1.010	1.010	830
Site 20	1.002	1.002	1.002	1.002	960
Site 21	1.000	1.000	1.000	1.000	370
Site 22	1.000	1.000	1.000	1.000	410
Site 23	1.000	1.000	1.000	1.000	430
Site 24	1.000	1.000	1.000	1.000	340
Site 25	1.000	1.000	1.000	1.000	480
Site 26	1.000	1.000	1.000	1.000	600
Site 27	1.000	1.000	1.000	1.000	980
Site 28	1.000	1.000	1.000	1.000	280
Site 29	1.000	1.000	1.000	1.000	260
Site 30	1.005	1.005	1.005	1.005	180
Site 31	1.000	1.000	1.000	1.000	200
Site 32	1.000	1.000	1.000	1.000	140
Site 33	1.000	1.000	1.000	1.000	160
Site 34	1.006	1.006	1.006	1.006	950
Site 35	1.008	1.008	1.008	1.008	910
Site 64	1.000	1.000	1.000	1.000	110
Site 65	1.000	1.000	1.000	1.000	220
Site 66	1.000	1.000	1.000	1.000	80
Site 67	1.000	1.000	1.000	1.000	40

Site 68	1.000	1.000	1.000	1.000	60
Site 69	1.000	1.000	1.000	1.000	68
Site 70	1.000	1.000	1.000	1.000	20
Site 71	1.000	1.000	1.000	1.000	10
Site 72	1.000	1.000	1.000	1.000	88
Site 73	1.000	1.000	1.000	1.000	237
Site 74	1.000	1.000	1.000	1.000	257
Site 75	1.000	1.000	1.000	1.000	277
Site 76	1.000	1.000	1.000	1.000	297
Site 77	1.000	1.000	1.000	1.000	187
Site 78	1.000	1.000	1.000	1.000	207
Site 79	0.996	0.996	0.996	0.996	MSID 7039, 7040
Site 80	0.999	0.999	0.999	0.999	MSID 7107
Site 81	1.000	1.000	1.000	1.000	MSID 7252
Site 82	1.000	1.000	1.000	1.000	MSID 7249
Site 83	1.000	1.000	1.000	1.000	MSID 7241, 7242
Site 84	1.000	1.000	1.000	1.000	MSID 7244
Site 85	1.012	1.012	1.012	1.012	MSID 2037, 2038
Site 86	1.001	1.001	1.001	1.001	MSID 7156
Site 87	1.005	1.005	1.005	1.005	MSID 0437
Site 90	1.000	1.000	1.000	1.000	307
Site 91	1.000	1.000	1.000	1.000	327
Site 92	1.000	1.000	1.000	1.000	347
Site 93	1.005	1.005	1.005	1.005	367
Site 94	1.033	1.033	1.033	1.033	387
Site 95	1.014	1.014	1.014	1.014	437
Site 96	1.002	1.002	1.002	1.002	457
Site 97	1.000	1.000	1.000	1.000	417
Site 98	1.000	1.000	1.000	1.000	467

Site 99	1.000	1.000	1.000	1.000	108
Site 102	1.000	1.000	1.000	1.000	128
Site 105	1.022	1.022	1.022	1.022	487
Site 106	1.000	1.000	1.000	1.000	517
Site 107	1.001	1.001	1.001	1.001	408
Site 108	0.998	0.998	0.998	0.998	MSID 7358, 7359
Site 109	1.018	1.018	1.018	1.018	148
Site 110	0.997	0.997	0.997	0.997	MSID 7362, 7363
Site 111	0.997	0.997	0.997	0.997	MSID 7364, 7365
Site 113	1.000	1.000	1.000	1.000	308
Site 114	1.005	1.005	1.005	1.005	208
Site 115	1.006	1.006	1.006	1.006	288
Site 116	1.001	1.001	1.001	1.001	188
Site 117	1.007	1.007	1.007	1.007	248
Site 118	1.000	1.000	1.000	1.000	268
Site 119	0.996	0.996	0.996	0.996	MSID 7350
Site 120	1.001	1.001	1.001	1.001	168
Site 121	tbc	tbc	tbc	tbc	tbc
Site 122	1.004	1.004	1.004	1.004	328
Site 123	1.000	1.000	1.000	1.000	348
Site 124	1.000	1.000	1.000	1.000	368
Site 125	tbc	tbc	tbc	tbc	tbc
Site 126	1.000	1.000	1.000	1.000	388

EHV site specific LLFs					
Generation					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 2	0.999	0.999	0.999	0.999	507
Site 12	1.000	1.000	1.000	1.000	470

Site 13	0.990	0.990	0.990	0.990	690
Site 14	1.000	1.000	1.000	1.000	730
Site 15	0.999	0.999	0.999	0.999	770
Site 16	1.002	1.002	1.002	1.002	740
Site 17	1.001	1.001	1.001	1.001	750
Site 18	1.002	1.002	1.002	1.002	820
Site 19	1.001	1.001	1.001	1.001	840
Site 20	0.995	0.995	0.995	0.995	970
Site 21	0.993	0.993	0.993	0.993	360
Site 22	0.991	0.991	0.991	0.991	420
Site 23	0.991	0.991	0.991	0.991	440
Site 24	0.977	0.977	0.977	0.977	350
Site 25	0.998	0.998	0.998	0.998	490
Site 26	0.999	0.999	0.999	0.999	590
Site 27	0.999	0.999	0.999	0.999	990
Site 28	0.990	0.990	0.990	0.990	290
Site 29	0.992	0.992	0.992	0.992	270
Site 30	0.998	0.998	0.998	0.998	190
Site 31	1.000	1.000	1.000	1.000	210
Site 32	0.991	0.991	0.991	0.991	150
Site 33	1.014	1.014	1.014	1.014	170
Site 64	1.002	1.002	1.002	1.002	120
Site 65	1.013	1.013	1.013	1.013	230
Site 66	0.982	0.982	0.982	0.982	90
Site 67	1.012	1.012	1.012	1.012	50
Site 68	0.996	0.996	0.996	0.996	70
Site 69	0.996	0.996	0.996	0.996	78
Site 70	0.992	0.992	0.992	0.992	30
Site 71	1.000	1.000	1.000	1.000	100

Site 72	0.983	0.983	0.983	0.983	98
Site 73	0.995	0.995	0.995	0.995	227
Site 74	0.997	0.997	0.997	0.997	247
Site 75	0.990	0.990	0.990	0.990	267
Site 76	0.998	0.998	0.998	0.998	287
Site 77	0.989	0.989	0.989	0.989	177
Site 78	0.991	0.991	0.991	0.991	197
Site 79	0.996	0.996	0.996	0.996	MSID 7039, 7040
Site 80	0.999	0.999	0.999	0.999	MSID 7107
Site 81	1.000	1.000	1.000	1.000	MSID 7252
Site 82	1.000	1.000	1.000	1.000	MSID 7249
Site 83	1.000	1.000	1.000	1.000	MSID 7241, 7242
Site 84	1.000	1.000	1.000	1.000	MSID 7244
Site 90	0.992	0.992	0.992	0.992	317
Site 91	0.988	0.988	0.988	0.988	337
Site 92	0.996	0.996	0.996	0.996	357
Site 93	1.000	1.000	1.000	1.000	377
Site 94	1.000	1.000	1.000	1.000	397
Site 95	0.987	0.987	0.987	0.987	427
Site 97	0.995	0.995	0.995	0.995	407
Site 98	0.996	0.996	0.996	0.996	477
Site 99	0.992	0.992	0.992	0.992	118
Site 102	0.996	0.996	0.996	0.996	138
Site 105	0.976	0.976	0.976	0.976	497
Site 106	0.994	0.994	0.994	0.994	527
Site 107	0.996	0.996	0.996	0.996	418
Site 108	0.998	0.998	0.998	0.998	MSID 7358, 7359
Site 109	0.999	0.999	0.999	0.999	158
Site 110	0.997	0.997	0.997	0.997	MSID 7362, 7363

Site 111	0.997	0.997	0.997	0.997	MSID 7364, 7365
Site 113	0.999	0.999	0.999	0.999	318
Site 114	0.995	0.995	0.995	0.995	218
Site 115	0.999	0.999	0.999	0.999	298
Site 116	0.999	0.999	0.999	0.999	198
Site 117	0.995	0.995	0.995	0.995	258
Site 118	0.999	0.999	0.999	0.999	278
Site 119	0.996	0.996	0.996	0.996	MSID 7350
Site 120	0.987	0.987	0.987	0.987	178
Site 121	tbc	tbc	tbc	tbc	tbc
Site 122	0.996	0.996	0.996	0.996	338
Site 123	0.997	0.997	0.997	0.997	358
Site 124	0.997	0.997	0.997	0.997	378
Site 125	tbc	tbc	tbc	tbc	tbc
Site 126	0.997	0.997	0.997	0.997	398

Annex 6 - Charges for New or Amended Designated EHV Properties

None.

Annex 7 - Final Supplier of Last Resort and Bad Debt Pass-through Costs

Tariff name	Open LLFCs / LDNO unique billing identifier	PCs	Supplier of Last Resort Fixed charge adder* p/MPAN/day	Excess Supplier of Last Resort Fixed charge adder** p/MPAN/day	Eligible Bad Debt Fixed charge adder*** p/MPAN/day
Domestic Aggregated with Residual	011, 031, 041, 051, 061, 441, 451, 511, 531, 821, 851	0, 1, 2	0.07	9.35	0.04
Non-Domestic Aggregated No Residual	131, 161, 171, 191, 241, 242, 431, 432, 481, 482, 751, 752, 631, 661, 831, 861	0, 3, 4, 5-8			0.04
Non-Domestic Aggregated Band 1	0	0, 3, 4, 5-8			0.04
Non-Domestic Aggregated Band 2	0	0, 3, 4, 5-8			0.04
Non-Domestic Aggregated Band 3	0	0, 3, 4, 5-8			0.04
Non-Domestic Aggregated Band 4	0	0, 3, 4, 5-8			0.04
LV Site Specific No Residual	461, 471	0			0.04
LV Site Specific Band 1	801, 841	0			0.04
LV Site Specific Band 2	0	0			0.04
LV Site Specific Band 3	0	0			0.04
LV Site Specific Band 4	0	0			0.04
LV Sub Site Specific No Residual	462, 472	0			0.04
LV Sub Site Specific Band 1	802, 842	0			0.04
LV Sub Site Specific Band 2	0	0			0.04
LV Sub Site Specific Band 3	0	0			0.04
LV Sub Site Specific Band 4	0	0			0.04
HV Site Specific No Residual	463, 473	0			0.04

HV Site Specific Band 1	**803, 843**	**0**			**0.04**
HV Site Specific Band 2	**0**	**0**			**0.04**
HV Site Specific Band 3	**0**	**0**			**0.04**
HV Site Specific Band 4	**0**	**0**			**0.04**
LDNO LV: Domestic Aggregated with Residual	**LV010, LV020, LV100**	**0, 1, 2**	**0.07**	**9.35**	**0.04**
LDNO LV: Non-Domestic Aggregated No Residual	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO LV: Non-Domestic Aggregated Band 1	**LV040, LV050, LV070, LV110**	**0, 3, 4, 5-8**			**0.04**
LDNO LV: Non-Domestic Aggregated Band 2	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO LV: Non-Domestic Aggregated Band 3	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO LV: Non-Domestic Aggregated Band 4	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO LV: LV Site Specific No Residual	**LV125**	**0**			**0.04**
LDNO LV: LV Site Specific Band 1	**LV120**	**0**			**0.04**
LDNO LV: LV Site Specific Band 2	**0**	**0**			**0.04**
LDNO LV: LV Site Specific Band 3	**0**	**0**			**0.04**
LDNO LV: LV Site Specific Band 4	**0**	**0**			**0.04**
LDNO HV: Domestic Aggregated with Residual	**HV010, HV020, HV100**	**0, 1, 2**	**0.07**	**9.35**	**0.04**
LDNO HV: Non-Domestic Aggregated No Residual	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HV: Non-Domestic Aggregated Band 1	**HV040, HV050, HV070, HV110**	**0, 3, 4, 5-8**			**0.04**
LDNO HV: Non-Domestic Aggregated Band 2	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HV: Non-Domestic Aggregated Band 3	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HV: Non-Domestic Aggregated Band 4	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HV: LV Site Specific No Residual	**HV125**	**0**			**0.04**

LDNO HV: LV Site Specific Band 1	**HV120**	**0**			**0.04**
LDNO HV: LV Site Specific Band 2	**0**	**0**			**0.04**
LDNO HV: LV Site Specific Band 3	**0**	**0**			**0.04**
LDNO HV: LV Site Specific Band 4	**0**	**0**			**0.04**
LDNO HV: LV Sub Site Specific No Residual	**HV135**	**0**			**0.04**
LDNO HV: LV Sub Site Specific Band 1	**HV130**	**0**			**0.04**
LDNO HV: LV Sub Site Specific Band 2	**0**	**0**			**0.04**
LDNO HV: LV Sub Site Specific Band 3	**0**	**0**			**0.04**
LDNO HV: LV Sub Site Specific Band 4	**0**	**0**			**0.04**
LDNO HV: HV Site Specific No Residual	**HV145**	**0**			**0.04**
LDNO HV: HV Site Specific Band 1	**HV140**	**0**			**0.04**
LDNO HV: HV Site Specific Band 2	**0**	**0**			**0.04**
LDNO HV: HV Site Specific Band 3	**0**	**0**			**0.04**
LDNO HV: HV Site Specific Band 4	**0**	**0**			**0.04**
LDNO HVplus: Domestic Aggregated with Residual	**HP010, HP020, HP100**	**0, 1, 2**	**0.07**	**9.35**	**0.04**
LDNO HVplus: Non-Domestic Aggregated No Residual	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HVplus: Non-Domestic Aggregated Band 1	**HP040, HP050, HP070, HP110**	**0, 3, 4, 5-8**			**0.04**
LDNO HVplus: Non-Domestic Aggregated Band 2	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HVplus: Non-Domestic Aggregated Band 3	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HVplus: Non-Domestic Aggregated Band 4	**0**	**0, 3, 4, 5-8**			**0.04**
LDNO HVplus: LV Site Specific No Residual	**HP125**	**0**			**0.04**
LDNO HVplus: LV Site Specific Band 1	**HP120**	**0**			**0.04**

LDNO HVplus: LV Site Specific Band 2	0	0			0.04
LDNO HVplus: LV Site Specific Band 3	0	0			0.04
LDNO HVplus: LV Site Specific Band 4	0	0			0.04
LDNO HVplus: LV Sub Site Specific No Residual	HP135	0			0.04
LDNO HVplus: LV Sub Site Specific Band 1	HP130	0			0.04
LDNO HVplus: LV Sub Site Specific Band 2	0	0			0.04
LDNO HVplus: LV Sub Site Specific Band 3	0	0			0.04
LDNO HVplus: LV Sub Site Specific Band 4	0	0			0.04
LDNO HVplus: HV Site Specific No Residual	HP145	0			0.04
LDNO HVplus: HV Site Specific Band 1	HP140	0			0.04
LDNO HVplus: HV Site Specific Band 2	0	0			0.04
LDNO HVplus: HV Site Specific Band 3	0	0			0.04
LDNO HVplus: HV Site Specific Band 4	0	0			0.04
LDNO EHV: Domestic Aggregated with Residual	EH010, EH020, EH100	0, 1, 2	0.07	9.35	0.04
LDNO EHV: Non-Domestic Aggregated No Residual	0	0, 3, 4, 5-8			0.04
LDNO EHV: Non-Domestic Aggregated Band 1	EH040, EH050, EH070, EH110	0, 3, 4, 5-8			0.04
LDNO EHV: Non-Domestic Aggregated Band 2	0	0, 3, 4, 5-8			0.04
LDNO EHV: Non-Domestic Aggregated Band 3	0	0, 3, 4, 5-8			0.04
LDNO EHV: Non-Domestic Aggregated Band 4	0	0, 3, 4, 5-8			0.04
LDNO EHV: LV Site Specific No Residual	EH125	0			0.04
LDNO EHV: LV Site Specific Band 1	EH120	0			0.04
LDNO EHV: LV Site Specific Band 2	0	0			0.04

LDNO EHV: LV Site Specific Band 3	0	0			0.04
LDNO EHV: LV Site Specific Band 4	0	0			0.04
LDNO EHV: LV Sub Site Specific No Residual	EH135	0			0.04
LDNO EHV: LV Sub Site Specific Band 1	EH130	0			0.04
LDNO EHV: LV Sub Site Specific Band 2	0	0			0.04
LDNO EHV: LV Sub Site Specific Band 3	0	0			0.04
LDNO EHV: LV Sub Site Specific Band 4	0	0			0.04
LDNO EHV: HV Site Specific No Residual	EH145	0			0.04
LDNO EHV: HV Site Specific Band 1	EH140	0			0.04
LDNO EHV: HV Site Specific Band 2	0	0			0.04
LDNO EHV: HV Site Specific Band 3	0	0			0.04
LDNO EHV: HV Site Specific Band 4	0	0			0.04
LDNO 132kV/EHV: Domestic Aggregated with Residual	KE010, KE020, KE100	0, 1, 2	0.07	9.36	0.04
LDNO 132kV/EHV: Non-Domestic Aggregated No Residual	0	0, 3, 4, 5-8			0.04
LDNO 132kV/EHV: Non-Domestic Aggregated Band 1	KE040, KE050, KE070, KE110	0, 3, 4, 5-8			0.04
LDNO 132kV/EHV: Non-Domestic Aggregated Band 2	0	0, 3, 4, 5-8			0.04
LDNO 132kV/EHV: Non-Domestic Aggregated Band 3	0	0, 3, 4, 5-8			0.04
LDNO 132kV/EHV: Non-Domestic Aggregated Band 4	0	0, 3, 4, 5-8			0.04
LDNO 132kV/EHV: LV Site Specific No Residual	KE125	0			0.04
LDNO 132kV/EHV: LV Site Specific Band 1	KE120	0			0.04
LDNO 132kV/EHV: LV Site Specific Band 2	0	0			0.04
LDNO 132kV/EHV: LV Site Specific Band 3	0	0			0.04

LDNO 132kV/EHV: LV Site Specific Band 4	0	0			0.04
LDNO 132kV/EHV: LV Sub Site Specific No Residual	KE135	0			0.04
LDNO 132kV/EHV: LV Sub Site Specific Band 1	KE130	0			0.04
LDNO 132kV/EHV: LV Sub Site Specific Band 2	0	0			0.04
LDNO 132kV/EHV: LV Sub Site Specific Band 3	0	0			0.04
LDNO 132kV/EHV: LV Sub Site Specific Band 4	0	0			0.04
LDNO 132kV/EHV: HV Site Specific No Residual	KE145	0			0.04
LDNO 132kV/EHV: HV Site Specific Band 1	KE140	0			0.04
LDNO 132kV/EHV: HV Site Specific Band 2	0	0			0.04
LDNO 132kV/EHV: HV Site Specific Band 3	0	0			0.04
LDNO 132kV/EHV: HV Site Specific Band 4	0	0			0.04
LDNO 132kV: Domestic Aggregated with Residual	KV010, KV020, KV100	0, 1, 2	0.07	9.36	0.04
LDNO 132kV: Non-Domestic Aggregated No Residual	0	0, 3, 4, 5-8			0.04
LDNO 132kV: Non-Domestic Aggregated Band 1	KV040, KV050, KV070, KV110	0, 3, 4, 5-8			0.04
LDNO 132kV: Non-Domestic Aggregated Band 2	0	0, 3, 4, 5-8			0.04
LDNO 132kV: Non-Domestic Aggregated Band 3	0	0, 3, 4, 5-8			0.04
LDNO 132kV: Non-Domestic Aggregated Band 4	0	0, 3, 4, 5-8			0.04
LDNO 132kV: LV Site Specific No Residual	KV125	0			0.04
LDNO 132kV: LV Site Specific Band 1	KV120	0			0.04
LDNO 132kV: LV Site Specific Band 2	0	0			0.04
LDNO 132kV: LV Site Specific Band 3	0	0			0.04
LDNO 132kV: LV Site Specific Band 4	0	0			0.04

LDNO 132kV: LV Sub Site Specific No Residual	KV135	0			0.04
LDNO 132kV: LV Sub Site Specific Band 1	KV130	0			0.04
LDNO 132kV: LV Sub Site Specific Band 2	0	0			0.04
LDNO 132kV: LV Sub Site Specific Band 3	0	0			0.04
LDNO 132kV: LV Sub Site Specific Band 4	0	0			0.04
LDNO 132kV: HV Site Specific No Residual	KV145	0			0.04
LDNO 132kV: HV Site Specific Band 1	KV140	0			0.04
LDNO 132kV: HV Site Specific Band 2	0	0			0.04
LDNO 132kV: HV Site Specific Band 3	0	0			0.04
LDNO 132kV: HV Site Specific Band 4	0	0			0.04
LDNO 0000: Domestic Aggregated with Residual	ZZ010, ZZ020, ZZ100	0, 1, 2	0.07	9.35	0.04
LDNO 0000: Non-Domestic Aggregated No Residual	0	0, 3, 4, 5-8			0.04
LDNO 0000: Non-Domestic Aggregated Band 1	ZZ040, ZZ050, ZZ070, ZZ110	0, 3, 4, 5-8			0.04
LDNO 0000: Non-Domestic Aggregated Band 2	0	0, 3, 4, 5-8			0.04
LDNO 0000: Non-Domestic Aggregated Band 3	0	0, 3, 4, 5-8			0.04
LDNO 0000: Non-Domestic Aggregated Band 4	0	0, 3, 4, 5-8			0.04
LDNO 0000: LV Site Specific No Residual	ZZ125	0			0.04
LDNO 0000: LV Site Specific Band 1	ZZ120	0			0.04
LDNO 0000: LV Site Specific Band 2	0	0			0.04
LDNO 0000: LV Site Specific Band 3	0	0			0.04
LDNO 0000: LV Site Specific Band 4	0	0			0.04
LDNO 0000: LV Sub Site Specific No Residual	ZZ135	0			0.04

LDNO 0000: LV Sub Site Specific Band 1	**ZZ130**	**0**			**0.04**
LDNO 0000: LV Sub Site Specific Band 2	**0**	**0**			**0.04**
LDNO 0000: LV Sub Site Specific Band 3	**0**	**0**			**0.04**
LDNO 0000: LV Sub Site Specific Band 4	**0**	**0**			**0.04**
LDNO 0000: HV Site Specific No Residual	**ZZ145**	**0**			**0.04**
LDNO 0000: HV Site Specific Band 1	**ZZ140**	**0**			**0.04**
LDNO 0000: HV Site Specific Band 2	**0**	**0**			**0.04**
LDNO 0000: HV Site Specific Band 3	**0**	**0**			**0.04**
LDNO 0000: HV Site Specific Band 4	**0**	**0**			**0.04**

*Supplier of Last Resort pass-through costs which are recovered on a two year lag allocated to all domestic tariffs with a fixed charge (including LDNO)

**Supplier of Last Resort pass-through costs which are not recovered on a two year lag allocated to all domestic tariffs with a fixed charge (including LDNO)

***Eligible Bad Debt pass-through costs allocated to all metered demand tariffs (including LDNO)