Northern Powergrid (Northeast) Plc

Use of System Charging Statement

Notice of Charges

Effective from

1 April 2021

Version 0.4

Northern Powergrid (Northeast) Plc Registered Office: Lloyds Court, 78 Grey Street, Newcastle upon Tyne, NE1 6AF
Registered in England and Wales no. 2906593

Version Control

Version	Date	Description of version and any changes made
0.1	20 December 2019	This statement is based on version 0.1 of the common template developed during 2019.
0.2	27 July 2020	The form of this statement was approved by Ofgem on 03 June 2020. This statement has been revised to include the new storage tariffs introduced by DCP 341. Charges for Eligible Electricity Storage Faciliites are detailed in Section 10.
0.3	16 November 2020	This statement has been revised to update Annex 5 based on the 2020 losses submission.
0.4	17 February 2021	This statement has been revised to update Annex 1 to include new LLFCs for each demand tariff.

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]:

(a) Common Distribution Charging Methodology (CDCM); for Low Voltage and High Voltage (LV and HV) Designated Properties as per DCUSA Schedule 16;

(b) Extra-High Voltage Distribution Charging Methodology (EDCM); for Designated Extra-High Voltage (EHV) Properties as per DCUSA Schedule 18; and

(c) Price Control Disaggregation Model (PCDM); which calculates the discount percentages applied to tariffs 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 a premise can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on 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] 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

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:

http://www.northernpowergrid.com/document-library/charges

Validity period

1.8. This charging statement is valid for services provided from the effective from date stated on the front of this 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:

http://www.northernpowergrid.com/document-library/charges

Contact details

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

Charges Policy Manager
Northern Powergrid
Manor House
Station Road
New Penshaw
Houghton-le-Spring
DH4 7LA
e-mail:- UoS.Charges@northernpowergrid.com

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

Connection Record Maintenance
Northern Powergrid
Manor House
Station Road
New Penshaw
Houghton-le-Spring

[4] Northeast - Schedule of charges and other tables - 2021 V.0.1.xlsx

DH4 7LA

e-mail:- connection.records@northernpowergrid.com

1.13. All enquiries regarding increases to maximum capacities should be addressed to:

Get Connected

Northern Powergrid

Manor House

Station Road

New Penshaw

Houghton-le-Spring

DH4 7LA

email: getconnected@northernpowergrid.com

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:

(a) The 'Supercustomer' approach for Customers for whom we receive aggregated consumption data through Settlement; and

(b) 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:

(a) 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);

(b) 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);

(c) Domestic Customers for whom HH metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class F); and

(d) 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:

(a) 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

(b) 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 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 consumed within the time periods specified in this statement. 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) a fixed charge - pence/MPAN/day, there will only be one fixed charge applied to each MPAN; and

(b) 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' fixed and unit charge will be applied as default until the invalid combination is corrected. Where there are multiple SSC/Time Pattern Regime (TPR) combinations, the default 'Domestic Aggregated' fixed and unit charge 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 unrelated 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 which may be necessary following the receipt of actual data from the User.

2.16. The charges are applied on the basis of the LLFC 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 section 'Incorrectly Allocated Charges' if you believe the allocated LLFC or tariff is incorrect.

Site-specific billed charges

2.18. Site-specific billed charges may include the following components:

(a) a fixed charge, pence/MPAN/day or pence/MSID/day;

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

(c) an excess capacity charge, pence/kVA/day, if a site exceeds its MIC/MEC;

(d) three unit charges, pence/kWh, depending on the time of day and the type of tariff for which the MPAN is registered; and

(e) 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.

Time periods

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

2.25. 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.

2.26. 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

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

Chargeable capacity

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

2.29. 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.

2.30. 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.

2.31. 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 premise's connection. A Customer can seek to agree or vary the MIC/MEC by contacting us using the contact details in section 1.

Exceeded capacity

2.32. 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

$$\text{Demand Exceeded Capacity} = \max\left(2 \times \sqrt{AI^2 + \max(RI, RE)^2} - MIC,\ 0\right)$$

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

2.33. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.

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

Generation exceeded capacity

$$\text{Generation Exceeded Capacity} = \max\left(2 \times \sqrt{AE^2 + \max(RI, RE)^2} - MEC,\ 0\right)$$

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

2.35. Only reactive import and reactive export values occurring at times of active export are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values occurring at times of kWh export are summated prior to the calculation above.

2.36. 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

2.37. 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

2.38. There is no minimum capacity threshold.

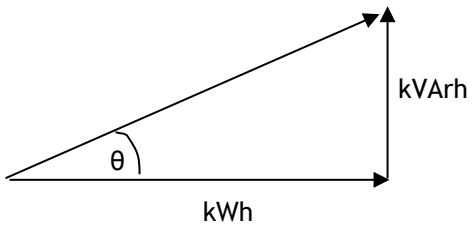
Application of charges for reactive power

2.39. 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, 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.

2.40. Power Factor is calculated as follows:

Cos θ = Power Factor



2.41. The chargeable reactive power is calculated as follows:

Demand chargeable reactive power

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

2.42. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.

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

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

Generation chargeable reactive power

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

2.45. Only reactive import and reactive export values occurring at times of active export are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.

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

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

Incorrectly allocated charges

2.48. 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.

2.49. 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.

2.50. 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 premises. When we are notified this has happened, we will change the allocation of charges accordingly.

2.51. 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.

2.52. Where it has been identified that a charge may have been incorrectly allocated due to the wrong voltage of connection, import/export details or metering location, 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.

2.53. 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.

2.54. Where we agree that the current 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 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; whichever is the shorter.

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

2.56. Should we reject the request (as per paragraph 2.55) 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

2.57. 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:

(a) 25 years have passed since their first energisation/connection date (i.e. Designated EHV Properties with energisation/Connection Agreements dated prior to 1 April 2005, and for which 25 years has passed since their first energisation/connection date will receive generation UoS charges from the next charging year following the expiry of their 25 years exemption, starting 1 April); or

(b) The person responsible for the Designated EHV Property has provided notice to us that they wish to opt in to generation UoS charges.

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

2.58. 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 other non-exempt generators.

Provision of billing data

2.59. Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or the DCUSA through settlement processes, such metering

data shall be provided by the User of the system in respect of each calendar month within five working days of the end of that calendar month.

2.60. 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.

2.61. 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 D0036[5] (as agreed with us). The data shall be e-mailed to:

Duos.billing@northernpowergrid.com

2.62. 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 0.95 lag will be applied to the active consumption in any half hour.

Out of area use of system charges

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

Licensed distribution network operator charges

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

2.65. 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.

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

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

2.67. 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.

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

Licence exempt distribution networks

2.69. 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.

2.70. 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.

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

Full settlement metering

2.72. 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.

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

Difference metering

2.74. 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.

Gross settlement

2.75. Where one of our MPANs (prefix 15) is embedded within a licence exempt distribution network connected to our Distribution System, and a dispensation for difference metering is in place for settlement purposes, and we receive gross measurement data for the boundary MPAN, we will continue to charge the boundary MPAN Supplier for

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

use of our Distribution System. No charges will be levied by us directly to the Customer or Supplier of the embedded MPAN(s) connected within the licence exempt distribution network.

2.76. We require that gross metered data for the boundary of the connection is provided to us. Until a new industry data flow is introduced for the sending of such gross data, gross metered data shall:

(a) be provided in a text file in the format of the D0036 MRA data flow;

(b) the text file shall be emailed to Duos.billing@northernpowergrid.com;

(c) the title of the email should also contain the phrase "gross data for difference metered private network" and contain the metering reference specified by us in place of the Settlement MPAN; and

(d) the text filename shall be formed of the metering reference specified by us followed by a hyphen and followed by a timestamp in the format YYYYMMDDHHMMSS and followed by ".txt".

2.77. For the avoidance of doubt, the reduced difference metered measurement data for the boundary connection that is to enter Settlement should continue to be sent using the Settlement MPAN.

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:

http://www.northernpowergrid.com/document-library/charges

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

3.4. Annex 2 contains the charges applied to Designated EHV Properties and charges applied to LDNOs with 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 procedures 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 method or a 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.

4.6. Where the usage profile for a given site contains insufficiently large consumption or generation volumes, a default calculation or default replacement shall be undertaken to enable calculation of a realistic site specific LLF.

4.7. 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].

Publication of line loss factors

4.8. The LLFs used in Settlement are published on the Elexon Portal website[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.

[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] The following page has links to BSCP128 and to our LLF methodology: http://www.elexon.co.uk/reference/technical-operations/losses/

4.9. 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.

4.10. As this charging 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.

4.11. 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 is available to download from our website:

http://www.northernpowergrid.com/document-library/charges

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 of 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 its 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. For those premises where UoS is charged under the EDCM, some customers may be able to benefit from entering into a Demand Side Management (DSM) agreement with us.

5.8. DSM arrangements are based on a formal commitment by the customer to materially reduce their MIC in certain time periods, as determined by us, for active network management purposes other than normal planned or unplanned outages.

5.9. For new connections, the customer must make an express statement in their application that they have an interest in some, or all, of the import capacity for their intended connection or modified connection being interruptible for active network management purposes.

5.10. Where the customer enters into a DSM agreement by agreeing to reduce their MIC to meet the defined parameters in the agreement, reduced UoS charges will apply. The chargeable capacity will be equal to the MIC minus the capacity that is subject to restrictions under the DSM agreement. The scale of the reduction will vary by site and is linked to the LRIC element of the charge in line with the approved charging methodology.

5.11. Any reduction in UoS charges applicable to the customer will be assessed on a site-specific basis by us. Any customers who wish to enquire whether they can take advantage of DSM should in the first instance contact:

Charges Policy Manager
Manor House
Station Road
New Penshaw
Houghton-le-Spring
DH4 7LA
e-mail:- UoS.charges@northernpowergrid.com

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 the DCUSA where applicable or else as detailed in the following paragraphs.

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 have no charges applicable to this section.

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. Charges for Eligible Electricity Storage Facilities

Storage Facilities

10.1. A Storage Facility 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 to:

Use of System Charges
Northern Powergrid
Manor House
Station Road
New Penshaw
Houghton-le-Spring
DH4 7LA
e-mail:- uos.charges@northernpowergrid.com

10.3. 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 above.

10.4. 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.

10.5. 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 Storage Facility.

Application of charges for Storage Facilities

10.6. A property will only be deemed to qualify as a Storage Facility, and be allocated charges as such, from the date on which we receive valid certification.

10.7. If a property that has previously been certified as a Storage Facility no longer satisfies the criteria as per DCUSA, then the User must inform us immediately.

10.8. For a property that has been previously certified as a Storage Facility, we will continue to apply the relevant storage import tariff without the requirement for further certification, except in any one of the following circumstances:

(a) Where we have reason to believe that the property no longer qualifies as a Storage Facility; or,

(b) Significant time has passed since the certification was submitted; or,

(c) 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.

10.9. When a property no longer meets the required criteria to qualify as a Storage Facility, we will change the allocation of charges accordingly from that point.

10.10. Please refer to the section 'Incorrectly allocated charges' if you believe the property has been incorrectly not allocated charges as a Storage Facility.

Appendix 1 - Glossary of Terms

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.
Designated Properties	As defined in standard condition 13A of the Electricity Distribution Licence.

Term	Definition
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 (OFTOs) 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>Last Mile 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>Leep 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>Utility Distribution Networks</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>
<tr><td>Distribution Network Operator (DNO)</td><td>An electricity distributor who 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.</td></tr>
</table>

Term	Definition
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).
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.

Term	Definition
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 (NGET) 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 in Great Britain.
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	$\frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data used by all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.
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.

Term	Definition
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 metering; • Measurement Class F – half hourly metering equipment at below 100kW premises with CT or whole current metering, and at domestic premises; and • Measurement Class G – half hourly metering equipment at below 100kW premises with whole current metering 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 LDNO→ secondary nested LDNO→customer).
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.
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 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.
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.

Term	Definition
Use of System Charges	Charges which are applicable to those parties which use the Distribution Network.
User	Someone that has a use of system agreement with the DNO e.g. a supplier, generator or other LDNO.

Appendix 2 - Guidance notes[10]

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

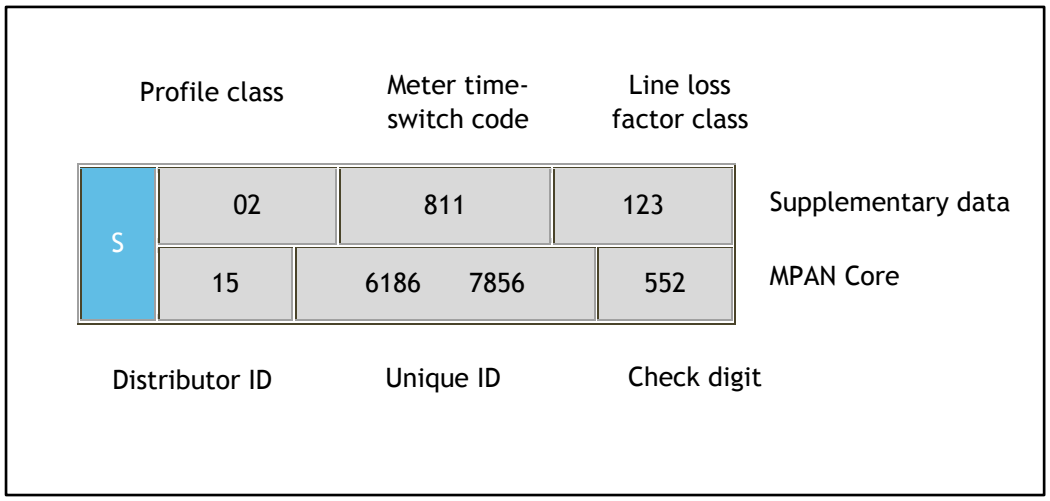
1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a school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

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.

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

Full MPAN diagram example



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 Northern Powergrid (Northeast) is 15. 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:

(a) '01' Domestic customers with unrestricted supply

(b) '02' Domestic customers with restricted load, for example off-peak heating

(c) '03' Non-domestic customers with unrestricted supply

(d) '04' Non-domestic customers with restricted load, for example off-peak heating

(e) '05' Non-domestic maximum demand customers with a Load Factor of less than 20%

(f) '06' Non-domestic maximum demand customers with a Load Factor between 20% and 30%

(g) '07' Non-domestic maximum demand customers with a Load Factor between 30% and 40%

(h) '08' Non-domestic maximum demand customers with a Load Factor over 40% or non-half-hourly metered generation customers

(i) '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 15 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 our website http://www.northernpowergrid.com/document-library/charges.

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 the 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 (kVAr) 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 methodology. 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 section 1.

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 – Electricity Storage Certificate

A certificate set out in the form of the example shown below should be submitted to confirm that a site qualifies as an Electricity Storage Facility.

Electricity Storage Facility Certificate of Compliance	
This is to certify that the Metering System listed below qualifies as compliant with the criteria of an Eligible Electricity Storage Facility, or an Eligible EHV Electricity Storage Facility, for the purposes of Use of System charges, and that: (a) the property has an export MPAN, or export metering system registered in Central Metering Registration Service (CMRS), and an import MPAN, or import Metering System registered in CMRS, with associated metering equipment which only measure export from Electricity Storage and import for, or directly relating to, Electricity Storage (and not export from another source or import for another activity); (b) all metering equipment referred to in point (a) above is CT metering. For the purposes of this declaration, the terms Electricity Storage, Eligible Electricity Storage Facility and Eligible EHV Electricity Storage Facility have the meanings given to them 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 an Eligible Electricity Storage Facility, or an Eligible EHV Electricity Storage Facility. 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

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final LV and HV charges

Time Bands for Half Hourly Metered Properties			
Time periods	**Red Time Band**	**Amber Time Band**	**Green Time Band**
Monday to Friday (Including Bank Holidays) All Year	16:00 to 19:30	08:00 to 16:00 19:30 to 22:00	00:00 to 08:00 22:00 to 24:00
Saturday and Sunday All Year			00:00 to 24:00
Notes	All the above times are in UK Clock time		

Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	**Yellow Time Band**	**Green Time Band**
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 to 19:30	08:00 to 16:00 19:30 to 22:00	00:00 to 08:00 22:00 to 24:00
Monday to Friday (Including Bank Holidays) April to October Inclusive and March		08:00 to 22:00	00:00 to 08:00 22:00 to 24:00
Saturday and Sunday All year			00:00 to 24:00
Notes	All the above times are in UK Clock time		

Tariff name	Open LLFCs	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) 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	1A, 1, 2, 249	0, 1, 2	8.417	1.999	1.269	6.24				998, 999
Domestic Aggregated (related MPAN)	3A, 12	2	8.417	1.999	1.269					
Non-Domestic Aggregated	2A, 2B, 2C, 2D, 2Z, 203, 204, 257, 265, 304, 278	0, 3, 4, 5-8	8.647	2.025	1.272	6.57				
Non-Domestic Aggregated (related MPAN)	4A, 205	4	8.647	2.025	1.272					
LV Site Specific	5A, 5B, 5C, 5D, 5Z, 251	0	6.755	1.794	1.250	12.85	1.89	4.17	0.143	
LV Sub Site Specific	6A, 6B, 6C, 6D, 6Z, 293	0	4.806	1.547	1.227	12.85	2.71	4.33	0.075	
HV Site Specific	7A, 7B, 7C, 7D, 7Z, 301	0	3.973	1.436	1.217	152.29	2.69	4.70	0.050	
LV Site Specific Storage Import	9	0	5.568	0.608	0.063	12.85	1.89	4.17	0.143	
LV Sub Site Specific Storage Import	10	0	3.619	0.360	0.040	12.85	2.71	4.33	0.075	
HV Site Specific Storage Import	11	0	2.786	0.249	0.030	152.29	2.69	4.70	0.050	
Unmetered Supplies	8A, 506, 507, 508, 509, 554 & 555	0, 1, 8	14.998	1.730	1.243					
LV Generation Aggregated	774	0	(5.237)	(0.588)	(0.060)					
LV Sub Generation Aggregated	776	0	(4.737)	(0.525)	(0.054)					
LV Generation Site Specific	794, 792	0	(5.237)	(0.588)	(0.060)				0.121	
LV Generation Site Specific no RP charge	392, 394	0	(5.237)	(0.588)	(0.060)					
LV Sub Generation Site Specific	793, 795	0	(4.737)	(0.525)	(0.054)				0.117	
LV Sub Generation Site Specific no RP charge	393, 395	0	(4.737)	(0.525)	(0.054)					
HV Generation Site Specific	796, 798	0	(3.120)	(0.306)	(0.035)	95.28			0.088	
HV Generation Site Specific no RP charge	396, 398	0	(3.120)	(0.306)	(0.035)	95.28				

Annex 2 - Schedule of Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users).

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final EDCM charges

Time Periods for Designated EHV Properties	
Time periods	**Super Red Time Band**
Monday to Friday (Including Bank Holidays) November to February Inclusive	1600 - 1930
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)
	601	1592001005770 1592101005776		701	1574000216135 1594001005774	EHV Site Specific - Generation Exempt (LLFC 601 & 701)		798.39	1.19	1.19				
	603	1592001051182				EHV Site Specific (LLFC 603)		9,492.80	2.17	2.17				
	604	MSID_7299		727	MSID_7300	EHV Site Specific (LLFC 604 & 727)		72.31	0.89	0.89		1,446.15	0.05	0.05
	605	1592001092676				EHV Site Specific (LLFC 605)	0.169	2,295.20	2.20	2.20				
	606	1592001092719				EHV Site Specific (LLFC 606)	0.375	4,590.40	2.33	2.33				
	607	1592001092728				EHV Site Specific (LLFC 607)	0.941	4,590.40	3.81	3.81				
	608	1592001092737				EHV Site Specific (LLFC 608)	0.011	4,590.40	3.85	3.85				
	609	1592001046085				EHV Site Specific (LLFC 609)		888.60	4.60	4.60				
	570	1592001111628		811	1574000332667	EHV Site Specific (LLFC 570 & 811)		2,971.17	6.90	6.90	(0.983)	1,042.55	0.05	0.05
	612	1592001073112		704	1594001073116	EHV Site Specific (LLFC 612 & 704)	0.440	70.17	1.37	1.37	(0.597)	701.66	0.05	0.05
	614	1592001055257		709	1594001055250	EHV Site Specific (LLFC 614 & 709)		7,511.70	1.06	1.06		1,502.34	0.05	0.05
	615 & 616	1592001055239 1592001055248				EHV Site Specific (LLFC 615 & 616)	0.285	1,983.58	2.90	2.90				
	617	1592001110572				EHV Site Specific (LLFC 617)		11,042.00	1.79	1.79				
	618	1592001094308				EHV Site Specific (LLFC 618)	0.254	3,839.80	6.71	6.71				
	619	1570000150382		710	1594000000038	EHV Site Specific - Generation Exempt (LLFC 619 & 710)	0.021	27.55	1.43	1.43				
	620	1592001007476				EHV Site Specific (LLFC 620)		1,777.21	5.94	5.94				
	621	1592001007494				EHV Site Specific (LLFC 621)	0.153	95.04	2.44	2.44				
	622	1592001036574		711	1594001036578	EHV Site Specific (LLFC 622 & 711)	0.128	944.52	1.81	1.81	(0.414)	472.26	0.05	0.05
	624	1592001063540		804	1574000324772	EHV Site Specific (LLFC 624 & 804)	0.007	3,519.38	2.46	2.46		1,101.37	0.05	0.05
	625	1592001006890		748	1594001006893	EHV Site Specific - Generation Exempt (LLFC 625 & 748)	1.223	34.42	4.12	4.12				
	627	1570000199077		729	1574000199083	EHV Site Specific - Generation Exempt (LLFC 627 & 729)		1,204.33	1.33	1.33				
	626	1592001005637				EHV Site Specific (LLFC 626)	0.226	3,598.43	5.28	5.28				
	628	1592001111405				EHV Site Specific (LLFC 628)	0.934	691.14	7.72	7.72				
	631	1592001110216				EHV Site Specific (LLFC 631)	0.002	95.04	4.32	4.32				
	632	1592001007467				EHV Site Specific (LLFC 632)	0.155	294.60	5.00	5.00				
	633	1580001273940 1580001273950 1592001111380				EHV Site Specific (LLFC 633)	0.107	3,950.98	3.71	3.71				
	637	1592001141543		728	1594001141547	EHV Site Specific - Generation Exempt (LLFC 637 & 728)	0.071	1,411.15	1.55	1.55				
	680	1580000675845		759	1574000275033	EHV Site Specific (LLFC 680 & 759)	0.093	3.41	1.27	1.27		143.90	0.05	0.05
	681	1580000872387		760	1574000283735	EHV Site Specific (LLFC 681 & 760)	0.246	84.58	1.40	1.40		3,383.06	0.05	0.05

Annex 2 - Schedule of Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users).

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)
	544	1570000124531		761	1594000000047	EHV Site Specific - Generation Exempt (LLFC 544 & 761)		12.72	0.98	0.98				
	682	1580000909309		762	1574000285644	EHV Site Specific (LLFC 682 & 762)	0.682	224.43	1.36	1.36	(0.787)	1,224.17	0.05	0.05
	691	1592101007746				EHV Site Specific (LLFC 691)	0.140	47.52	5.79	5.79				
	683	1570000166434		763	1594000000029	EHV Site Specific - Generation Exempt (LLFC 683 & 763)		6.93	1.19	1.19				
	692	1580000867554 1580000911799				EHV Site Specific (LLFC 692)	1.942	95.04	6.95	6.95				
	693	1592001074941				EHV Site Specific (LLFC 693)	0.900	47.52	4.75	4.75				
	694	1570000190631				EHV Site Specific (LLFC 694)	0.867	95.04	7.12	7.12				
	695	1580000918163 1580000918172				EHV Site Specific (LLFC 695)	0.035	95.04	4.58	4.58				
	684	1580001085400		764	1574000298500	EHV Site Specific (LLFC 684 & 764)	0.005	693.03	1.35	1.35	(0.106)	4,620.72	0.05	0.05
	685	1580001132432		765	1574000302403	EHV Site Specific (LLFC 685 & 765)		36.66	0.81	0.81		1,004.47	0.05	0.05
	686	1580001150566 1580001150575		766	1574000303940 1574000303959	EHV Site Specific (LLFC 686 & 766)		309.41	0.63	0.63		19,207.47	0.05	0.05
	687	TBC				EHV Site Specific (LLFC 687)		2,390.39	2.16	2.16				
	688	1580001208659		767	1574000309384	EHV Site Specific (LLFC 688 & 767)		6.30	1.45	1.45		718.00	0.05	0.05
	689	1580001208668		768	1574000309375	EHV Site Specific (LLFC 689 & 768)		68.76	1.30	1.30		2,967.56	0.05	0.05
	690	1580001174414		782	1574000306374	EHV Site Specific (LLFC 690 & 782)	0.312	42.27	1.74	1.74		1,521.81	0.05	0.05
	540	1580001190763		783	1574000307917	EHV Site Specific (LLFC 540 & 783)		2.44	1.24	1.24	(0.007)	587.57	0.05	0.05
	541	1580001197945		784	1574000308405	EHV Site Specific (LLFC 541 & 784)	0.440	163.95	0.97	0.97	(0.597)	2,422.48	0.05	0.05
	542	1580001278406		785	1574000315040	EHV Site Specific (LLFC 542 & 785)		236.70	0.84	0.84		437.90	0.05	0.05
	543	1580001278415				EHV Site Specific (LLFC 543)		1,448.60	1.12	1.12				
	545	1580001417656				EHV Site Specific (LLFC 545)	0.038	20,032.64	1.63	1.63				
	547	1580001440530		787	1574000324470	EHV Site Specific (LLFC 547 & 787)		14.67	1.32	1.32		1,013.05	0.05	0.05
	548	1580001440520		788	1574000324461	EHV Site Specific (LLFC 548 & 788)		55.93	1.34	1.34		4,840.42	0.05	0.05
	549	1580001487955		789	1574000327286	EHV Site Specific (LLFC 549 & 789)		297.28	1.21	1.21		21,008.03	0.05	0.05
	560	MSID_7331		806	MSID_7333	EHV Site Specific (LLFC 560 & 806)		18.56	0.94	0.94		1,540.15	0.05	0.05
	561	1580001519739		807	1574000328420	EHV Site Specific (LLFC 561 & 807)		748.70	2.06	2.06		9,654.35	0.05	0.05
	563	1580001448895		802	1574000324790	EHV Site Specific (LLFC 563 & 802)	0.680	1.54	2.14	2.14		145.76	0.05	0.05
	562	1580001448900		769	1574000324781	EHV Site Specific (LLFC 562 & 769)	0.680	1.54	2.06	2.06		145.76	0.05	0.05
	564	MSID_7353		803	MSID_7354	EHV Site Specific (LLFC 564 & 803)		285.22	0.95	0.95		285.24	0.05	0.05
	565	1580001498380		805	1574000327505	EHV Site Specific (LLFC 565 & 805)	0.052	149.92	1.34	1.34	(0.144)	587.09	0.05	0.05
	567	1580001531639		809	1574000328810	EHV Site Specific (LLFC 567 & 809)	0.283	7.97	1.73	1.73		697.32	0.05	0.05
	566	1580001511800		808	1574000328094	EHV Site Specific (LLFC 566 & 808)	0.001	585.46	1.28	1.28	(0.009)	2,351.24	0.05	0.05
	696	1592007351503				EHV Site Specific (LLFC 696)	1.059	47.52	6.70	6.70				
	568	1580001589053				EHV Site Specific (LLFC 568)	1.028	444.30	3.10	3.10				
	569	1580001659366		810	1574000332338	EHV Site Specific (LLFC 569 & 810)	0.058	370.88	2.89	2.89	(0.058)	1,001.98	0.05	0.05

Annex 2a - Schedule of Import Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users).

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final EDCM import charges

Import Unique Identifier	LLFC	Import 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)
	601	1592001005770 1592101005776	EHV Site Specific - Generation Exempt (LLFC 601 & 701)		798.39	1.19	1.19
	603	1592001051182	EHV Site Specific (LLFC 603)		9,492.80	2.17	2.17
	604	MSID_7299	EHV Site Specific (LLFC 604 & 727)		72.31	0.89	0.89
	605	1592001092676	EHV Site Specific (LLFC 605)	0.169	2,295.20	2.20	2.20
	606	1592001092719	EHV Site Specific (LLFC 606)	0.375	4,590.40	2.33	2.33
	607	1592001092728	EHV Site Specific (LLFC 607)	0.941	4,590.40	3.81	3.81
	608	1592001092737	EHV Site Specific (LLFC 608)	0.011	4,590.40	3.85	3.85
	609	1592001046085	EHV Site Specific (LLFC 609)		888.60	4.60	4.60
	570	1592001111628	EHV Site Specific (LLFC 570 & 811)		2,971.17	6.90	6.90
	612	1592001073112	EHV Site Specific (LLFC 612 & 704)	0.440	70.17	1.37	1.37
	614	1592001055257	EHV Site Specific (LLFC 614 & 709)		7,511.70	1.06	1.06
	615 & 616	1592001055239 1592001055248	EHV Site Specific (LLFC 615 & 616)	0.285	1,983.58	2.90	2.90
	617	1592001110572	EHV Site Specific (LLFC 617)		11,042.00	1.79	1.79
	618	1592001094308	EHV Site Specific (LLFC 618)	0.254	3,839.80	6.71	6.71
	619	1570000150382	EHV Site Specific - Generation Exempt (LLFC 619 & 710)	0.021	27.55	1.43	1.43
	620	1592001007476	EHV Site Specific (LLFC 620)		1,777.21	5.94	5.94
	621	1592001007494	EHV Site Specific (LLFC 621)	0.153	95.04	2.44	2.44
	622	1592001036574	EHV Site Specific (LLFC 622 & 711)	0.128	944.52	1.81	1.81
	624	1592001063540	EHV Site Specific (LLFC 624 & 804)	0.007	3,519.38	2.46	2.46
	625	1592001006890	EHV Site Specific - Generation Exempt (LLFC 625 & 748)	1.223	34.42	4.12	4.12
	627	1570000199077	EHV Site Specific - Generation Exempt (LLFC 627 & 729)		1,204.33	1.33	1.33
	626	1592001005637	EHV Site Specific (LLFC 626)	0.226	3,598.43	5.28	5.28
	628	1592001111405	EHV Site Specific (LLFC 628)	0.934	691.14	7.72	7.72
	631	1592001110216	EHV Site Specific (LLFC 631)	0.002	95.04	4.32	4.32
	632	1592001007467	EHV Site Specific (LLFC 632)	0.155	294.60	5.00	5.00
	633	1580001273940 1580001273950 1592001111380	EHV Site Specific (LLFC 633)	0.107	3,950.98	3.71	3.71
	637	1592001141543	EHV Site Specific - Generation Exempt (LLFC 637 & 728)	0.071	1,411.15	1.55	1.55
	680	1580000675845	EHV Site Specific (LLFC 680 & 759)	0.093	3.41	1.27	1.27
	681	1580000872387	EHV Site Specific (LLFC 681 & 760)	0.246	84.58	1.40	1.40
	544	1570000124531	EHV Site Specific - Generation Exempt (LLFC 544 & 761)		12.72	0.98	0.98
	682	1580000909309	EHV Site Specific (LLFC 682 & 762)	0.682	224.43	1.36	1.36
	691	1592101007746	EHV Site Specific (LLFC 691)	0.140	47.52	5.79	5.79
	683	1570000166434	EHV Site Specific - Generation Exempt (LLFC 683 & 763)		6.93	1.19	1.19
	692	1580000867554 1580000911799	EHV Site Specific (LLFC 692)	1.942	95.04	6.95	6.95
	693	1592001074941	EHV Site Specific (LLFC 693)	0.900	47.52	4.75	4.75
	694	1570000190631	EHV Site Specific (LLFC 694)	0.867	95.04	7.12	7.12
	695	1580000918163 1580000918172	EHV Site Specific (LLFC 695)	0.035	95.04	4.58	4.58
	684	1580001085400	EHV Site Specific (LLFC 684 & 764)	0.005	693.03	1.35	1.35
	685	1580001132432	EHV Site Specific (LLFC 685 & 765)		36.66	0.81	0.81
	686	1580001150566 1580001150575	EHV Site Specific (LLFC 686 & 766)		309.41	0.63	0.63
	687	TBC	EHV Site Specific (LLFC 687)		2,390.39	2.16	2.16
	688	1580001208659	EHV Site Specific (LLFC 688 & 767)		6.30	1.45	1.45
	689	1580001208668	EHV Site Specific (LLFC 689 & 768)		68.76	1.30	1.30
	690	1580001174414	EHV Site Specific (LLFC 690 & 782)	0.312	42.27	1.74	1.74
	540	1580001190763	EHV Site Specific (LLFC 540 & 783)		2.44	1.24	1.24
	541	1580001197945	EHV Site Specific (LLFC 541 & 784)	0.440	163.95	0.97	0.97
	542	1580001278406	EHV Site Specific (LLFC 542 & 785)		236.70	0.84	0.84
	543	1580001278415	EHV Site Specific (LLFC 543)		1,448.60	1.12	1.12
	545	1580001417656	EHV Site Specific (LLFC 545)	0.038	20,032.64	1.63	1.63
	547	1580001440530	EHV Site Specific (LLFC 547 & 787)		14.67	1.32	1.32
	548	1580001440520	EHV Site Specific (LLFC 548 & 788)		55.93	1.34	1.34
	549	1580001487955	EHV Site Specific (LLFC 549 & 789)		297.28	1.21	1.21
	560	MSID_7331	EHV Site Specific (LLFC 560 & 806)		18.56	0.94	0.94
	561	1580001519739	EHV Site Specific (LLFC 561 & 807)		748.70	2.06	2.06
	563	1580001448895	EHV Site Specific (LLFC 563 & 802)	0.680	1.54	2.14	2.14
	562	1580001448900	EHV Site Specific (LLFC 562 & 769)	0.680	1.54	2.06	2.06
	564	MSID_7353	EHV Site Specific (LLFC 564 & 803)		285.22	0.95	0.95
	565	1580001498380	EHV Site Specific (LLFC 565 & 805)	0.052	149.92	1.34	1.34
	567	1580001531639	EHV Site Specific (LLFC 567 & 809)	0.283	7.97	1.73	1.73
	566	1580001511800	EHV Site Specific (LLFC 566 & 808)	0.001	585.46	1.28	1.28
	696	1592007351503	EHV Site Specific (LLFC 696)	1.059	47.52	6.70	6.70
	568	1580001589053	EHV Site Specific (LLFC 568)	1.028	444.30	3.10	3.10

Annex 2b - Schedule of Export Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users).

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final EDCM export charges

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
	701	1574000216135 1594001005774	EHV Site Specific - Generation Exempt (LLFC 601 & 701)				
	727	MSID_7300	EHV Site Specific (LLFC 604 & 727)		1,446.15	0.05	0.05
	811	1574000332667	EHV Site Specific (LLFC 570 & 811)	(0.983)	1,042.55	0.05	0.05
	704	1594001073116	EHV Site Specific (LLFC 612 & 704)	(0.597)	701.66	0.05	0.05
	709	1594001055250	EHV Site Specific (LLFC 614 & 709)		1,502.34	0.05	0.05
	710	1594000000038	EHV Site Specific - Generation Exempt (LLFC 619 & 710)				
	711	1594001036578	EHV Site Specific (LLFC 622 & 711)	(0.414)	472.26	0.05	0.05
	804	1574000324772	EHV Site Specific (LLFC 624 & 804)		1,101.37	0.05	0.05
	748	1594001006893	EHV Site Specific - Generation Exempt (LLFC 625 & 748)				
	729	1574000199083	EHV Site Specific - Generation Exempt (LLFC 627 & 729)				
	728	1594001141547	EHV Site Specific - Generation Exempt (LLFC 637 & 728)				
	759	1574000275033	EHV Site Specific (LLFC 680 & 759)		143.90	0.05	0.05
	760	1574000283735	EHV Site Specific (LLFC 681 & 760)		3,383.06	0.05	0.05
	761	1594000000047	EHV Site Specific - Generation Exempt (LLFC 544 & 761)				
	762	1574000285644	EHV Site Specific (LLFC 682 & 762)	(0.787)	1,224.17	0.05	0.05
	763	1594000000029	EHV Site Specific - Generation Exempt (LLFC 683 & 763)				
	764	1574000298500	EHV Site Specific (LLFC 684 & 764)	(0.106)	4,620.72	0.05	0.05
	765	1574000302403	EHV Site Specific (LLFC 685 & 765)		1,004.47	0.05	0.05
	766	1574000303940 1574000303959	EHV Site Specific (LLFC 686 & 766)		19,207.47	0.05	0.05
	767	1574000309384	EHV Site Specific (LLFC 688 & 767)		718.00	0.05	0.05
	768	1574000309375	EHV Site Specific (LLFC 689 & 768)		2,967.56	0.05	0.05
	782	1574000306374	EHV Site Specific (LLFC 690 & 782)		1,521.81	0.05	0.05
	783	1574000307917	EHV Site Specific (LLFC 540 & 783)	(0.007)	587.57	0.05	0.05
	784	1574000308405	EHV Site Specific (LLFC 541 & 784)	(0.597)	2,422.48	0.05	0.05
	785	1574000315040	EHV Site Specific (LLFC 542 & 785)		437.90	0.05	0.05
	787	1574000324470	EHV Site Specific (LLFC 547 & 787)		1,013.05	0.05	0.05
	788	1574000324461	EHV Site Specific (LLFC 548 & 788)		4,840.42	0.05	0.05
	789	1574000327286	EHV Site Specific (LLFC 549 & 789)		21,008.03	0.05	0.05
	806	MSID_7333	EHV Site Specific (LLFC 560 & 806)		1,540.15	0.05	0.05
	807	1574000328420	EHV Site Specific (LLFC 561 & 807)		9,654.35	0.05	0.05
	802	1574000324790	EHV Site Specific (LLFC 563 & 802)		145.76	0.05	0.05
	769	1574000324781	EHV Site Specific (LLFC 562 & 769)		145.76	0.05	0.05
	803	MSID_7354	EHV Site Specific (LLFC 564 & 803)		285.24	0.05	0.05
	805	1574000327505	EHV Site Specific (LLFC 565 & 805)	(0.144)	587.09	0.05	0.05
	809	1574000328810	EHV Site Specific (LLFC 567 & 809)		697.32	0.05	0.05
	808	1574000328094	EHV Site Specific (LLFC 566 & 808)	(0.009)	2,351.24	0.05	0.05
	810	1574000332338	EHV Site Specific (LLFC 569 & 810)	(0.058)	1,001.98	0.05	0.05

Annex 3 - Schedule of Charges for use of the Distribution System to Preserved/Additional LLFC Classes

Northern Powergrid (Northeast) plc has no preserved charges/additional LLFCs

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

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final LDNO tariffs

Time Bands for Half Hourly Metered Properties

Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16:00 to 19:30	08:00 to 16:00 19:30 to 22:00	00:00 to 08:00 22:00 to 24:00
Saturday and Sunday All Year			00:00 to 24:00
Notes	All the above times are in UK Clock time		

Time Bands for Half Hourly Unmetered Properties

	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 to 19:30	08:00 to 16:00 19:30 to 22:00	00:00 to 08:00 22:00 to 24:00
Monday to Friday (Including Bank Holidays) April to October Inclusive and March		08:00 to 22:00	00:00 to 08:00 22:00 to 24:00
Saturday and Sunday All year			00:00 to 24:00
Notes	All the above times are in UK Clock time		

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) 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	151, 150, 199	0, 1, 2	5.006	1.189	0.755	3.79			
LDNO LV: Domestic Aggregated (related MPAN)	152	2	5.006	1.189	0.755				
LDNO LV: Non-Domestic Aggregated	156, 206, 154, 153	0, 3, 4, 5-8	5.143	1.204	0.757	3.98			
LDNO LV: Non-Domestic Aggregated (related MPAN)	155	4	5.143	1.204	0.757				
LDNO LV: LV Site Specific	157	0	4.017	1.067	0.743	7.72	1.12	2.48	0.085
LDNO LV: LV Site Specific Storage Import	3	0	3.311	0.361	0.038	7.72	1.12	2.48	0.085
LDNO LV: Unmetered Supplies	170, 37, 38, 39, 40	0, 1, 8	8.920	1.029	0.739				
LDNO LV: LV Generation Aggregated	172	0, 8	(5.237)	(0.588)	(0.060)				
LDNO LV: LV Generation Site Specific	173, 174	0	(5.237)	(0.588)	(0.060)				0.121
LDNO HV: Domestic Aggregated	159, 158, 207	0, 1, 2	3.327	0.790	0.502	2.58			
LDNO HV: Domestic Aggregated (related MPAN)	160	2	3.327	0.790	0.502				
LDNO HV: Non-Domestic Aggregated	164, 208, 162, 161	0, 3, 4, 5-8	3.418	0.800	0.503	2.71			
LDNO HV: Non-Domestic Aggregated (related MPAN)	163	4	3.418	0.800	0.503				
LDNO HV: LV Site Specific	165	0	2.670	0.709	0.494	5.19	0.75	1.65	0.056
LDNO HV: LV Sub Site Specific	166	0	3.212	1.034	0.820	8.65	1.81	2.90	0.050
LDNO HV: HV Site Specific	167	0	3.263	1.180	1.000	125.13	2.21	3.86	0.041
LDNO HV: LV Site Specific Storage Import	4	0	2.201	0.240	0.025	5.19	0.75	1.65	0.056
LDNO HV: LV Sub Site Specific Storage Import	7	0	2.419	0.240	0.027	8.65	1.81	2.90	0.050
LDNO HV: HV Site Specific Storage Import	13	0	2.288	0.205	0.025	125.13	2.21	3.86	0.041
LDNO HV: Unmetered Supplies	171, 41, 42, 43, 44	0, 1, 8	5.928	0.684	0.491				
LDNO HV: LV Generation Aggregated	175	0, 8	(5.237)	(0.588)	(0.060)				
LDNO HV: LV Sub Generation Aggregated	176	8	(4.737)	(0.525)	(0.054)				
LDNO HV: LV Generation Site Specific	177, 178	0	(5.237)	(0.588)	(0.060)				0.121
LDNO HV: LV Sub Generation Site Specific	179, 180	0	(4.737)	(0.525)	(0.054)				0.117
LDNO HV: HV Generation Site Specific	181, 182	0	(3.120)	(0.306)	(0.035)				0.088
LDNO HVplus: Domestic Aggregated	50, 51, 209	0, 1, 2	2.324	0.552	0.350	1.86			
LDNO HVplus: Domestic Aggregated (related MPAN)	52	2	2.324	0.552	0.350				
LDNO HVplus: Non-Domestic Aggregated	53, 54, 56, 210	0, 3, 4, 5-8	2.388	0.559	0.351	1.95			
LDNO HVplus: Non-Domestic Aggregated (related MPAN)	55	4	2.388	0.559	0.351				
LDNO HVplus: LV Site Specific	57	0	1.865	0.495	0.345	3.68	0.52	1.15	0.039
LDNO HVplus: LV Sub Site Specific	58	0	2.215	0.713	0.565	6.02	1.25	2.00	0.035
LDNO HVplus: HV Site Specific	59	0	2.228	0.805	0.682	85.48	1.51	2.64	0.028
LDNO HVplus: LV Site Specific Storage Import	14	0	1.537	0.168	0.017	3.68	0.52	1.15	0.039
LDNO HVplus: LV Sub Site Specific Storage Import	15	0	1.668	0.166	0.019	6.02	1.25	2.00	0.035
LDNO HVplus: HV Site Specific Storage Import	17	0	1.562	0.140	0.017	85.48	1.51	2.64	0.028
LDNO HVplus: Unmetered Supplies	45, 46, 47, 48, 61	0, 1, 8	4.141	0.478	0.343				
LDNO HVplus: LV Generation Aggregated	62	8	(2.413)	(0.271)	(0.028)				
LDNO HVplus: LV Sub Generation Aggregated	63	8	(2.657)	(0.294)	(0.030)				
LDNO HVplus: LV Generation Site Specific	64, 65	0	(2.413)	(0.271)	(0.028)				0.056
LDNO HVplus: LV Sub Generation Site Specific	66, 67	0	(2.657)	(0.294)	(0.030)				0.065
LDNO HVplus: HV Generation Site Specific	68, 69	0	(3.120)	(0.306)	(0.035)	95.28			0.088
LDNO EHV: Domestic Aggregated	70, 71, 211	0, 1, 2	1.616	0.384	0.244	1.35			
LDNO EHV: Domestic Aggregated (related MPAN)	72	2	1.616	0.384	0.244				
LDNO EHV: Non-Domestic Aggregated	73, 74, 76, 212	0, 3, 4, 5-8	1.660	0.389	0.244	1.41			
LDNO EHV: Non-Domestic Aggregated (related MPAN)	75	4	1.660	0.389	0.244				
LDNO EHV: LV Site Specific	77	0	1.296	0.344	0.240	2.62	0.36	0.80	0.027
LDNO EHV: LV Sub Site Specific	78	0	1.540	0.495	0.393	4.24	0.87	1.39	0.024
LDNO EHV: HV Site Specific	79	0	1.549	0.560	0.474	59.48	1.05	1.83	0.020
LDNO EHV: LV Site Specific Storage Import	18	0	1.069	0.117	0.012	2.62	0.36	0.80	0.027

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

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) 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: LV Sub Site Specific Storage Import	19	0	1.160	0.115	0.013	4.24	0.87	1.39	0.024
LDNO EHV: HV Site Specific Storage Import	20	0	1.086	0.097	0.012	59.48	1.05	1.83	0.020
LDNO EHV: Unmetered Supplies	183, 184, 185, 186, 81	0, 1, 8	2.879	0.332	0.239				
LDNO EHV: LV Generation Aggregated	82	8	(1.678)	(0.188)	(0.019)				
LDNO EHV: LV Sub Generation Aggregated	83	8	(1.847)	(0.205)	(0.021)				
LDNO EHV: LV Generation Site Specific	84, 85	0	(1.678)	(0.188)	(0.019)				0.039
LDNO EHV: LV Sub Generation Site Specific	86, 87	0	(1.847)	(0.205)	(0.021)				0.046
LDNO EHV: HV Generation Site Specific	88, 89	0	(2.169)	(0.213)	(0.024)	66.24			0.061
LDNO 132kV/EHV: Domestic Aggregated	90, 91, 213	0, 1, 2	1.070	0.254	0.161	0.96			
LDNO 132kV/EHV: Domestic Aggregated (related MPAN)	92	2	1.070	0.254	0.161				
LDNO 132kV/EHV: Non-Domestic Aggregated	93, 94, 96, 214	0, 3, 4, 5-8	1.100	0.257	0.162	1.00			
LDNO 132kV/EHV: Non-Domestic Aggregated (related MPAN)	95	4	1.100	0.257	0.162				
LDNO 132kV/EHV: LV Site Specific	97	0	0.859	0.228	0.159	1.79	0.24	0.53	0.018
LDNO 132kV/EHV: LV Sub Site Specific	98	0	1.020	0.328	0.260	2.87	0.57	0.92	0.016
LDNO 132kV/EHV: HV Site Specific	99	0	1.026	0.371	0.314	39.46	0.69	1.21	0.013
LDNO 132kV/EHV: LV Site Specific Storage Import	23	0	0.708	0.077	0.008	1.79	0.24	0.53	0.018
LDNO 132kV/EHV: LV Sub Site Specific Storage Import	24	0	0.768	0.076	0.009	2.87	0.57	0.92	0.016
LDNO 132kV/EHV: HV Site Specific Storage Import	27	0	0.719	0.064	0.008	39.46	0.69	1.21	0.013
LDNO 132kV/EHV: Unmetered Supplies	187, 188, 189, 190, 101	0, 1, 8	1.907	0.220	0.158				
LDNO 132kV/EHV: LV Generation Aggregated	102	8	(1.111)	(0.125)	(0.013)				
LDNO 132kV/EHV: LV Sub Generation Aggregated	103	8	(1.223)	(0.136)	(0.014)				
LDNO 132kV/EHV: LV Generation Site Specific	104, 105	0	(1.111)	(0.125)	(0.013)				0.026
LDNO 132kV/EHV: LV Sub Generation Site Specific	106, 107	0	(1.223)	(0.136)	(0.014)				0.030
LDNO 132kV/EHV: HV Generation Site Specific	108, 109	0	(1.437)	(0.141)	(0.016)	43.88			0.041
LDNO 132kV: Domestic Aggregated	110, 111, 215	0, 1, 2	0.544	0.129	0.082	0.58			
LDNO 132kV: Domestic Aggregated (related MPAN)	112	2	0.544	0.129	0.082				
LDNO 132kV: Non-Domestic Aggregated	113, 114, 116, 216	0, 3, 4, 5-8	0.559	0.131	0.082	0.60			
LDNO 132kV: Non-Domestic Aggregated (related MPAN)	115	4	0.559	0.131	0.082				
LDNO 132kV: LV Site Specific	117	0	0.436	0.116	0.081	1.00	0.12	0.27	0.009
LDNO 132kV: LV Sub Site Specific	118	0	0.518	0.167	0.132	1.55	0.29	0.47	0.008
LDNO 132kV: HV Site Specific	119	0	0.521	0.188	0.160	20.14	0.35	0.62	0.007
LDNO 132kV: LV Site Specific Storage Import	29	0	0.360	0.039	0.004	1.00	0.12	0.27	0.009
LDNO 132kV: LV Sub Site Specific Storage Import	30	0	0.390	0.039	0.004	1.55	0.29	0.47	0.008
LDNO 132kV: HV Site Specific Storage Import	31	0	0.366	0.033	0.004	20.14	0.35	0.62	0.007
LDNO 132kV: Unmetered Supplies	191, 192, 193, 194, 121	0, 1, 8	0.969	0.112	0.080				
LDNO 132kV: LV Generation Aggregated	122	8	(0.565)	(0.063)	(0.006)				
LDNO 132kV: LV Sub Generation Aggregated	123	8	(0.622)	(0.069)	(0.007)				
LDNO 132kV: LV Generation Site Specific	124, 125	0	(0.565)	(0.063)	(0.006)				0.013
LDNO 132kV: LV Sub Generation Site Specific	126, 127	0	(0.622)	(0.069)	(0.007)				0.015
LDNO 132kV: HV Generation Site Specific	128, 129	0	(0.730)	(0.072)	(0.008)	22.30			0.021
LDNO 0000: Domestic Aggregated	130, 131, 217	0, 1, 2	0.171	0.041	0.026	0.31			
LDNO 0000: Domestic Aggregated (related MPAN)	132	2	0.171	0.041	0.026				
LDNO 0000: Non-Domestic Aggregated	133, 134, 136, 218	0, 3, 4, 5-8	0.175	0.041	0.026	0.31			
LDNO 0000: Non-Domestic Aggregated (related MPAN)	135	4	0.175	0.041	0.026				
LDNO 0000: LV Site Specific	137	0	0.137	0.036	0.025	0.44	0.04	0.08	0.003
LDNO 0000: LV Sub Site Specific	138	0	0.163	0.052	0.042	0.61	0.09	0.15	0.003
LDNO 0000: HV Site Specific	139	0	0.164	0.059	0.050	6.45	0.11	0.19	0.002
LDNO 0000: LV Site Specific Storage Import	33	0	0.113	0.012	0.001	0.44	0.04	0.08	0.003
LDNO 0000: LV Sub Site Specific Storage Import	34	0	0.122	0.012	0.001	0.61	0.09	0.15	0.003
LDNO 0000: HV Site Specific Storage Import	35	0	0.115	0.010	0.001	6.45	0.11	0.19	0.002
LDNO 0000: Unmetered Supplies	195, 196, 197, 198, 141	0, 1, 8	0.304	0.035	0.025				
LDNO 0000: LV Generation Aggregated	142	8	(0.177)	(0.020)	(0.002)				
LDNO 0000: LV Sub Generation Aggregated	143	8	(0.195)	(0.022)	(0.002)				
LDNO 0000: LV Generation Site Specific	144, 145	0	(0.177)	(0.020)	(0.002)				0.004
LDNO 0000: LV Sub Generation Site Specific	146, 147	0	(0.195)	(0.022)	(0.002)				0.005
LDNO 0000: HV Generation Site Specific	148, 149	0	(0.229)	(0.022)	(0.003)	7.00			0.006

Annex 5 – Schedule of Line Loss Factors

Northern Powergrid (Northeast) plc - Illustrative LLFs for year beginning 1 April 2021				
Time periods	**Period 1**	**Period 2**	**Period 3**	**Period 4**
Monday – Friday (Apr-Oct)			00:30 – 07:30	00:00 – 00:30 07:30 – 24:00
Monday – Friday (Nov)		07:30 – 20:00	00:30 – 07:30	00:00 – 00:30 20:00 – 24:00
Monday – Friday (Dec – Feb)	16:30 – 18:30	07:30 – 16:30 18:30 – 20:00	00:30 – 07:30	00:00 – 00:30 20:00 – 24:00
Monday – Friday (Mar)			00:30 – 07:30	00:00 – 00:30 07:30 – 24:00
Saturday and Sunday All Year			00:30 – 07:30	00:00 – 00:30 07:30 – 24:00
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	1.080	1.073	1.063	1.067	1, 2, 9, 12, 203, 204, 205, 249, 251, 257, 278, 392, 394, 506, 507, 508, 509, 554, 555, 774, 792, 794, 998, 999, 1A, 3A, 2A, 2B, 2C, 2D, 2Z, 4A, 5A, 5B, 5C, 5D, 5Z, 8A
Low Voltage Substation	1.038	1.037	1.041	1.038	10, 265, 293, 393, 395, 776, 793, 795, 6A, 6B, 6C, 6D, 6Z
High Voltage Network	1.023	1.021	1.017	1.019	11, 301, 304, 396, 398, 796, 798, 7A, 7B, 7C, 7D, 7Z
High Voltage Substation	1.014	1.013	1.012	1.013	687, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 777, 778, 779, 780, 781
Greater than 22kV connected - generation	1.008	1.008	1.006	1.007	811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825
Greater than 22kV connected - demand	1.008	1.008	1.006	1.007	568, 571, 572, 573, 574, 575, 576, 577, 578, 579

EHV site specific LLFs					
Demand					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1	1.011	1.007	1.005	1.006	601
Site 2	1.002	1.002	1.002	1.002	603
Site 3	1.005	1.005	1.006	1.005	604
Site 4	1.007	1.008	1.013	1.010	605
Site 5	1.014	1.015	1.043	1.020	606
Site 6	1.017	1.017	1.036	1.019	607
Site 7	1.028	1.033	1.153	1.045	608
Site 8	1.004	1.005	1.004	1.004	609
Site 9	1.012	1.010	1.011	1.012	570
Site 10	1.000	1.005	1.004	1.005	612
Site 11	1.007	1.005	1.005	1.005	614
Site 12	1.005	1.005	1.004	1.004	615
Site 13	1.005	1.005	1.004	1.005	616
Site 14	1.007	1.007	1.008	1.008	617

Site 15	1.013	1.013	1.012	1.012	618
Site 16	1.017	1.014	1.011	1.012	619
Site 17	1.000	1.000	1.000	1.000	620
Site 18	1.021	1.020	1.042	1.029	621
Site 19	1.020	1.019	1.022	1.019	622
Site 20	1.006	1.006	1.006	1.006	624
Site 21	1.022	1.022	1.017	1.017	625
Site 22	1.011	1.008	1.007	1.007	627
Site 23	1.132	1.096	1.048	1.041	626
Site 24	1.017	1.017	1.012	1.013	628
Site 25	1.008	1.008	1.008	1.008	631
Site 26	1.005	1.005	1.005	1.005	632
Site 27	1.015	1.015	1.015	1.015	633
Site 28	1.013	1.011	1.011	1.010	637
Site 29	1.074	1.101	1.093	1.092	680
Site 30	1.058	1.055	1.043	1.046	681
Site 31	1.013	1.008	1.006	1.006	544
Site 32	1.004	1.004	1.003	1.004	682
Site 33	1.000	1.014	1.012	1.013	683
Site 34	1.006	1.006	1.005	1.005	684
Site 35	1.011	1.010	1.011	1.010	685
Site 36	1.001	1.001	1.001	1.003	686
Site 37	1.014	1.013	1.012	1.013	687
Site 38	1.038	1.047	1.052	1.049	688
Site 39	1.216	1.192	1.172	1.169	689
Site 40	1.116	1.139	1.126	1.118	690
Site 41	1.015	1.012	1.021	1.018	540
Site 42	1.005	1.005	1.004	1.004	541
Site 43	1.003	1.003	1.003	1.003	542
Site 44	1.036	1.039	1.032	1.033	543
Site 45	1.023	1.020	1.124	1.044	545
Site 46	1.018	1.020	1.015	1.019	547
Site 47	1.036	1.038	1.031	1.038	548
Site 48	1.028	1.033	1.048	1.042	549
Site 49	1.000	1.000	1.000	1.000	560
Site 50	1.033	1.032	1.042	1.046	561
Site 51	1.052	1.047	1.042	1.042	563
Site 52	1.148	1.134	1.110	1.108	562
Site 53	1.001	1.001	1.001	1.001	564
Site 54	1.022	1.021	1.015	1.016	565
Site 55	1.035	1.033	1.028	1.031	567
Site 56	1.002	1.002	1.002	1.002	566
Site 57	1.008	1.008	1.006	1.007	569
Site 58	1.012	1.010	1.011	1.012	570

EHV site specific LLFs					
Generation					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1	1.011	1.005	1.002	1.003	701
Site 2	0.997	0.997	0.996	0.996	727

Site 3	1.005	1.005	1.002	1.004	704
Site 4	0.995	0.996	0.996	0.996	709
Site 5	1.000	1.018	1.012	1.014	710
Site 6	0.988	0.989	0.977	0.984	711
Site 7	1.008	1.008	1.006	1.007	804
Site 8	1.013	1.014	1.005	1.007	748
Site 9	1.011	1.004	1.001	1.001	729
Site 10	0.913	0.936	0.952	0.948	728
Site 11	1.003	1.003	1.000	1.002	759
Site 12	0.998	0.999	0.995	0.996	760
Site 13	1.012	1.006	1.003	1.004	761
Site 14	1.005	1.005	1.003	1.004	762
Site 15	0.982	0.982	0.976	0.977	763
Site 16	1.001	1.000	0.998	0.999	764
Site 17	0.998	0.998	0.997	0.997	765
Site 18	0.998	0.998	0.998	0.998	766
Site 19	1.048	1.046	1.039	1.039	767
Site 20	1.046	1.043	1.035	1.035	768
Site 21	1.001	1.005	0.998	1.000	782
Site 22	0.999	0.999	1.000	0.998	783
Site 23	1.005	1.005	1.003	1.004	784
Site 24	1.000	1.000	1.000	1.000	785
Site 25	0.998	0.997	0.993	0.996	787
Site 26	0.998	0.996	0.993	0.995	788
Site 27	0.994	0.994	0.992	0.992	789
Site 28	1.000	1.000	1.000	1.000	806
Site 29	1.008	1.008	1.006	1.007	807
Site 30	1.020	1.014	1.007	1.005	802
Site 31	1.023	1.014	1.007	1.005	769
Site 32	0.999	0.999	0.999	0.999	803
Site 33	1.007	1.004	0.990	0.993	805
Site 34	1.005	1.005	0.999	1.002	809
Site 35	0.999	0.999	0.999	0.999	808
Site 36	1.008	1.008	1.006	1.007	810

Annex 6 – Schedule of Charges for new or amended Designated EHV Properties

New or Amended Charges for Designated EHV Properties can be found in the relevant 'Addendum' spreadsheet published on our website, as updated from time to time.

Annex 7 - Fixed adders for Supplier of Last Resort and Eligible Bad Debt pass-through costs

Northern Powergrid (Northeast) plc - Effective from 1 April 2021 - Final
Supplier of Last Resort and Eligible 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	1A, 1, 2, 249	0, 1, 2	0.01		0.18
Non-Domestic Aggregated	2A, 2B, 2C, 2D, 2Z, 203, 204, 257, 265, 304, 278	0, 3, 4, 5-8			0.18
LV Site Specific	5A, 5B, 5C, 5D, 5Z, 251	0			0.18
LV Sub Site Specific	6A, 6B, 6C, 6D, 6Z, 293	0			0.18
HV Site Specific	7A, 7B, 7C, 7D, 7Z, 301	0			0.18
LV Site Specific Storage Import	9	0			0.18
LV Sub Site Specific Storage Import	10	0			0.18
HV Site Specific Storage Import	11	0			0.18
LDNO LV: Domestic Aggregated	151, 150, 199	0, 1, 2	0.01		0.18
LDNO LV: Non-Domestic Aggregated	156, 206, 154, 153	0, 3, 4, 5-8			0.18
LDNO LV: LV Site Specific	157	0			0.18
LDNO LV: LV Site Specific Storage Import	3	0			0.18
LDNO HV: Domestic Aggregated	159, 158, 207	0, 1, 2	0.01		0.18
LDNO HV: Non-Domestic Aggregated	164, 208, 162, 161	0, 3, 4, 5-8			0.18
LDNO HV: LV Site Specific	165	0			0.18
LDNO HV: LV Sub Site Specific	166	0			0.18
LDNO HV: HV Site Specific	167	0			0.18
LDNO HV: LV Site Specific Storage Import	4	0			0.18
LDNO HV: LV Sub Site Specific Storage Import	7	0			0.18
LDNO HV: HV Site Specific Storage Import	13	0			0.18
LDNO HVplus: Domestic Aggregated	50, 51, 209	0, 1, 2	0.01		0.18
LDNO HVplus: Non-Domestic Aggregated	53, 54, 56, 210	0, 3, 4, 5-8			0.18
LDNO HVplus: LV Site Specific	57	0			0.18
LDNO HVplus: LV Sub Site Specific	58	0			0.18
LDNO HVplus: HV Site Specific	59	0			0.18
LDNO HVplus: LV Site Specific Storage Import	14	0			0.18
LDNO HVplus: LV Sub Site Specific Storage Import	15	0			0.18
LDNO HVplus: HV Site Specific Storage Import	17	0			0.18
LDNO EHV: Domestic Aggregated	70, 71, 211	0, 1, 2	0.01		0.18
LDNO EHV: Non-Domestic Aggregated	73, 74, 76, 212	0, 3, 4, 5-8			0.18

Annex 7 - Fixed adders for Supplier of Last Resort and Eligible 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
LDNO EHV: LV Site Specific	77	0			0.18
LDNO EHV: LV Sub Site Specific	78	0			0.18
LDNO EHV: HV Site Specific	79	0			0.18
LDNO EHV: LV Site Specific Storage Import	18	0			0.18
LDNO EHV: LV Sub Site Specific Storage Import	19	0			0.18
LDNO EHV: HV Site Specific Storage Import	20	0			0.18
LDNO 132kV/EHV: Domestic Aggregated	90, 91, 213	0, 1, 2	0.01		0.18
LDNO 132kV/EHV: Non-Domestic Aggregated	93, 94, 96, 214	0, 3, 4, 5-8			0.18
LDNO 132kV/EHV: LV Site Specific	97	0			0.18
LDNO 132kV/EHV: LV Sub Site Specific	98	0			0.18
LDNO 132kV/EHV: HV Site Specific	99	0			0.18
LDNO 132kV/EHV: LV Site Specific Storage Import	23	0			0.18
LDNO 132kV/EHV: LV Sub Site Specific Storage Import	24	0			0.18
LDNO 132kV/EHV: HV Site Specific Storage Import	27	0			0.18
LDNO 132kV: Domestic Aggregated	110, 111, 215	0, 1, 2	0.01		0.18
LDNO 132kV: Non-Domestic Aggregated	113, 114, 116, 216	0, 3, 4, 5-8			0.18
LDNO 132kV: LV Site Specific	117	0			0.18
LDNO 132kV: LV Sub Site Specific	118	0			0.18
LDNO 132kV: HV Site Specific	119	0			0.18
LDNO 132kV: LV Site Specific Storage Import	29	0			0.18
LDNO 132kV: LV Sub Site Specific Storage Import	30	0			0.18
LDNO 132kV: HV Site Specific Storage Import	31	0			0.18
LDNO 0000: Domestic Aggregated	130, 131, 217	0, 1, 2	0.01		0.18
LDNO 0000: Non-Domestic Aggregated	133, 134, 136, 218	0, 3, 4, 5-8			0.18
LDNO 0000: LV Site Specific	137	0			0.18
LDNO 0000: LV Sub Site Specific	138	0			0.18
LDNO 0000: HV Site Specific	139	0			0.18
LDNO 0000: LV Site Specific Storage Import	33	0			0.18
LDNO 0000: LV Sub Site Specific Storage Import	34	0			0.18
LDNO 0000: HV Site Specific Storage Import	35	0			0.18

*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)