Northern Powergrid (Yorkshire) Plc

Use of System Charging Statement

Notice of Charges

Effective from

1 April 2019

Version 0.3

Northern Powergrid (Yorkshire) Plc Registered Office: Lloyds Court, 78 Grey Street, Newcastle upon Tyne, NE1 6AF
Registered in England and Wales no. 4112320

Version Control

Version	Date	Description of version and any changes made
0.1	20 Dec 2017	This statement is based on version 0.1 of the common template developed during 2017.
0.1	06 Apr 2018	The form of this statement was approved by Ofgem on 29 March 2018. No changes to previous version.
0.2	07 Jan 2019	This statement has been revised to update Annex 5 based on the 2018 losses submission.
0.3	11 Feb 2019	This statement has been revised to update Annex 1 to include an amendment to charges to recover a claim for a last resort supply payment (LRSP) received from Octopus Energy Limited in January 2019. Details of the LRSP have also been provided in section 9 of this statement.
0.3	29 Mar 2019	The form of this statement was approved by Ofgem on 28 March 2019. No changes to previous version.

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 adjustment factors[2] that should be applied in Settlement to account for losses from the Distribution System. We have also included guidance notes in Appendix 2 to help improve your understanding of the charges we apply.

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

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

- Common Distribution Charging Methodology (CDCM); for Low Voltage and High Voltage (LV and HV) Designated Properties as per DCUSA Schedule 16; and
- Extra-High Voltage Distribution Charging Methodology (EDCM); for Designated Extra-High Voltage (EHV) Properties as per DCUSA Schedule 18.

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.

1.7. The annexes that form part of this statement are also available in spreadsheet format. 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:

[1] Charges can be positive or negative.
[2] Also known as Loss Adjustment Factors or Line Loss Factors. The schedule of adjustment factors will be provided in a revised statement shortly after the adjustment 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

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. 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:

Commercial Manager - Charges
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 changes to maximum capacities should be addressed to:

Connection Record Maintenance
Northern Powergrid
Manor House
Station Road
New Penshaw
Houghton-le-Spring
DH4 7LA
e-mail:- connection.records@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.

2.2. We utilise two billing approaches depending on the type of metering data received. The 'Supercustomer' approach is used for Non-Half-Hourly (NHH) metered, NHH unmetered, Half-Hourly (HH) metered premises with whole current Metering Systems, and all domestic premises. The 'Site-specific' approach is used for non-domestic current transformer (CT) metered premises or pseudo HH unmetered premises.

2.3. Typically NHH metered or HH metered premises with whole current Metering Systems are domestic and small businesses; premises with non-domestic CT Metering Systems are generally larger businesses or industrial sites; and unmetered premises are normally streetlights.

Supercustomer billing and payment

2.4. Supercustomer billing and payment applies to Meter Point Administration Numbers (MPANs) registered as NHH metered, NHH unmetered or aggregated HH metered. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Aggregated DUoS Report' data flow.

2.5. 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.

2.6. 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

2.7. Supercustomer charges include the following components:

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

2.8. Users who wish to supply electricity to a Customer whose MPAN is registered as Measurement Class A, B, F or G will be allocated the relevant charge structure set out in Annex 1.

2.9. Measurement class A charges apply to Exit/Entry Points where NHH metering is used for Settlement.

2.10. Measurement class B charges apply to Exit Points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001[4] and where operated in accordance with Balancing and Settlement Code (BSC) procedure 520[5].

2.11. Measurement Class F charges apply to Exit/Entry Points at domestic premises where HH metering is used for Settlement.

2.12. Measurement Class G charges apply to Exit/Entry Points at non-domestic premises with whole current Metering Systems where HH metering is used for Settlement.

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

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

2.15. Where an MPAN has an invalid Settlement combination, the 'Domestic Unrestricted' 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 Unrestricted' fixed and unit charge will be applied for each invalid SSC/TPR combination.

2.16. The time periods for unit charges where the Metering System is Measurement Class A or B are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a look-up table is provided in the spreadsheet that accompanies this statement[6].

2.17. The time periods for unit charges where the Metering System is Measurement Class F or G are set out in the table 'Time Bands for Half Hourly Metered Properties' in Annex 1.

2.18. The 'Domestic Off-Peak' and 'Small Non-Domestic Off-Peak' charges are supplementary to either an unrestricted or a two-rate charge.

[4] The Electricity (Unmetered Supply) Regulations 2001 available from http://www.legislation.gov.uk/uksi/2001/3263/made
[5] Balancing and Settlement Code Procedures on unmetered supplies are available from https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/
[6] Northern Powergrid (Yorkshire) – 2019-20 Schedule of Charges and other tables

Site-specific billing and payment

2.19. Site-specific billing and payment applies to MPANs registered as Measurement Class C, D, E, or any other relevant Metering System Identifier (MSID). The site-specific billing and payment approach to Use of System (UoS) billing makes use of HH metering data at premises level received through Settlement.

2.20. 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.

2.21. 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.

2.22. 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

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

- a fixed charge, pence/MPAN/day or pence/MSID/day;
- a capacity charge, pence/kilovolt-ampere(kVA)/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
- an excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
- unit charges, pence/kWh, more than one unit charge may be applied; and
- an excess reactive power charge, pence/kilovolt-ampere reactive hour(kVArh), for each unit in excess of the reactive charge threshold.

2.24. Users who wish to supply electricity to Customers whose Metering System is Measurement Class C, D, E or is settled via CVA will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.

2.25. Measurement Class C, E or CVA charges apply to Exit/Entry points where HH metering data is used for Settlement purposes for non-domestic premises that have CT metering.

2.26. Measurement class D charges apply to 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.

2.27. 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.

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

2.29. For LV and HV Designated Properties that utilise a combination of Intermittent and Non-Intermittent generation technologies metered through a single MPAN/MSID, we will allocate the tariff based on the dominant technology. The dominant technology will have a higher combined installed capacity as evidenced in ratings contained in the Connection Agreement.

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

2.31. 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.

2.32. Due to the seasonal nature of charges for Unmetered Supplies, changes between Measurement Classes B and D (or vice versa) shall not be agreed except with effect from 1 April in any charging year.

Time periods for half-hourly metered properties

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

2.34. 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.

Time periods for pseudo half-hourly unmetered properties

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

Application of capacity charges

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

Chargeable capacity

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

2.38. 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.

2.39. Reductions to the MIC and/or MEC may only be permitted once in a 12 month period. Where the MIC and/or MEC is reduced, the new lower level will be agreed with reference to the level of the Customer's maximum demand. The new MIC and/or 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.

2.40. In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by us for the relevant premise's connection. A Customer can seek to agree or vary the MIC and/or MEC by contacting us using the contact details in section 1.

Exceeded capacity

2.41. 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)

2.42. 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. 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)

2.44. 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.

2.45. 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

2.46. 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

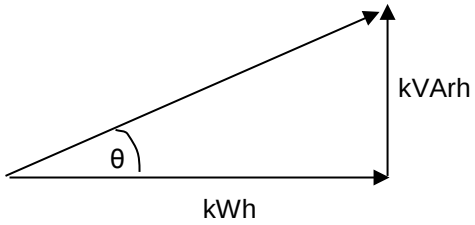
2.47. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.48. 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), excess reactive power charges will apply. This threshold is equivalent to an average power factor of 0.95 during the period. Any reactive units in excess of the 33% threshold are charged at the rate appropriate to the particular charge.

2.49. Power Factor is calculated as follows:

Cos θ = Power Factor



2.50. 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)

2.51. 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.

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

2.53. 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)

2.54. 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.

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

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

Incorrectly allocated charges

2.57. 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. Where an MPAN/MSID is used for export purposes in relation to an LV or HV Designated Property, the type of generation (Intermittent or Non-intermittent) also determines the allocation of charges.

2.58. 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.

2.59. The Supplier determines and provides us with the metering information and data. This enables us to allocate charges where there is more than one charge per voltage level. The metering information and data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When we are notified this has happened, we will change the allocation of charges accordingly.

2.60. 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.

2.61. 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.

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

2.63. Where we agree that the current 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.

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

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

Generation charges for pre-2005 Designated EHV Properties

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

- 25 years have passed since their first energisation/connection date (i.e. Designated EHV Properties with 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
- the person responsible for the Designated EHV Property has provided notice to Northern Powergrid 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.

2.67. Furthermore, if an exempt Customer makes an alteration to its export requirement then the Customer may be eligible to be charged for the additional capacity required or 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

2.68. 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.

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

2.70. Metering data shall be provided in an electronic format specified by us from time to time, and in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration Agreement (MRA) data flow D0036[7] (as agreed with us). The data shall be e-mailed to:

Duos.billing@northernpowergrid.com

2.71. We require details of reactive power imported or exported to be provided for all Measurement Class C and E sites. It is also required for CVA sites and Exempt Distribution Network boundaries with difference metering. We reserve the right to levy a charge on Users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.95 lag will be applied to the active consumption in any half hour.

Out of area use of system charges

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

Licensed distribution network operator charges

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

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

2.75. Where a NHH metered MPAN has an invalid settlement combination, the 'LDNO HV: Domestic Unrestricted' 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 Unrestricted' fixed and unit charge will be applied for each invalid SSC/TPR combination.

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

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

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

Licence exempt distribution networks

2.78. The Electricity and Gas (Internal Market) Regulations 2011[8] introduced new obligations on owners of licence exempt distribution networks (sometimes called private networks) including a duty to facilitate access to electricity and gas suppliers for Customers within those networks.

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

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

Full settlement metering

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

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

Difference metering

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

Gross settlement

2.84. Where one of our MPANs (prefix 23) 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 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.

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

2.85. 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:

- be provided in a text file in the format of the D0036 MRA data flow;
- the text file shall be emailed to Duos.billing@northernpowergrid.com;
- 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;
- 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".

2.86. 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 within their embedded Distribution System.

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 in their embedded Distribution System.

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[9] 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[10] (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 BSC procedure 128. BSCP128 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. 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.

4.7. The Elexon website[11] contains more information on LLFs.

Publication of Line loss factors

4.8. The LLFs used in Settlement are published on the Elexon Portal website[12]. 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.

[9] 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.

[10] Also referred to as Loss Adjustment Factors.

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

[12] The Elexon Portal can be accessed from http://www.elexonportal.co.uk

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. At the time that this charging statement is first published, Annex 5 will be intentionally left blank, as this charging statement is published a complete year before the LLFs for the relevant charging year have been calculated and audited. Once the final BSCP128 Audit Report has been received, we will issue an updated version of Annex 5 containing the audited LLF values.

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.

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 addendum will also be sent to all relevant DCUSA parties (i.e. the registered Supplier) and where requested the Customer.

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

Charges for amended Designated EHV Properties

5.7. 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

5.8. 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.

5.9. 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.

5.10. 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.

5.11. 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.

5.12. 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:

Commercial Manager - Charges
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 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. Northern Powergrid has no charges applicable to this section.

9. Last Resort Supply Payment – February 2019 Update

9.1. In July 2018, Iresa Limited ceased trading. Ofgem subsequently appointed Octopus Energy Limited as the Supplier of Last Resort for Iresa Limited's gas and electricity customers. In taking on Iresa Limited's customers, Octopus Energy Limited also took on some liabilities, including any credit balances which customers of Iresa Limited held at the time of failure.

9.2. On 24 January 2019, Ofgem gave consent for Octopus Energy Limited to make a claim of £13.2m for a Last Resort Supply Payment[13]. Under the standard conditions of the electricity supply licence (condition 9), the Supplier of Last Resort must make any such claim from gas and electricity distributors. Electricity distribution network operators are collectively liable for £7.2m (55%) of the total claim, and on 30 January 2019, we received a claim for £0.6m[14] (i.e. the Specified Amount as defined in standard condition 38 '*Treatment of payment claims for last-resort supply*' of the electricity distribution licence (SLC38)).

9.3. Under SLC38, a distributor receiving a Valid Claim for a Last Resort Supply Payment must increase its UoS charges in the Relevant Regulatory Year (as defined in SLC38), being the next regulatory year if the claim is received more than 60 days prior to the start of that year. As we received a Valid Claim more than 60 days prior to the start of 2019/20, we must increase UoS charges in 2019/20 to recover the Specified Amount.

9.4. Ofgem has directed that the 15 months' notice required of a change to UoS charges for 2019/20 need not apply in this case, and has directed that we are not required to change charges in accordance with our approved charging methodologies. We will

[13] https://www.ofgem.gov.uk/publications-and-updates/last-resort-supplier-payment-claim-octopus-energy-final-decision
[14] Precisely, £558,789.34

increase fixed charges for domestic unrestricted, domestic two rate and LV network domestic customers only[15].

9.5. The increase in fixed charges for these tariffs has been calculated as follows, rounded to two decimal places:

$$Supplementary\ fixed\ charge\ (p/day) = \left(\frac{A/B}{C}\right) \times 100$$

Where:

A = Amount to be recovered, being £558,789.34

B = Total combined forecast customer numbers for domestic unrestricted, domestic two rate and LV network domestic tariffs (from the published CDCM model for 2019/20), being 2,129,500

C = Days in the year, being 366

9.6. The resulting 0.08p/day increase in fixed charge for the aforementioned customers has been applied in this statement, and hence the tariffs published in this statement do not mirror either those originally published in December 2017, nor those in the published CDCM model for 2019/20. All other tariffs remain unaltered from the original December 2017 publication.

[15] https://www.ofgem.gov.uk/publications-and-updates/decision-grant-all-dnos-derogations-charging-years-201920-and-202021-due-last-resort-supply-payment-claim

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
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.
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>Energetics Electricity Ltd</td></tr>
<tr><td>27</td><td>All</td><td>The Electricity Network Company Ltd</td></tr>
<tr><td>29</td><td>All</td><td>Harlaxton Energy Networks</td></tr>
<tr><td>30</td><td>All</td><td>Peel Electricity Networks Ltd</td></tr>
<tr><td>31</td><td>All</td><td>UK Power Distribution Ltd</td></tr>
</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>
<tr><td>Distribution Services Area</td><td>The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.</td></tr>
</table>

Term	Definition
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 LDNO	This refers to an LDNO operating a Distribution System which is embedded within another Distribution System.
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.
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.

Term	Definition
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.
Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover cannot be made available on demand, in accordance to the definitions in Engineering Recommendation P2/6.
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 in respect of electricity distribution activities 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	$\frac{annual\ consumption\ (kWh)}{maximum\ demand\ (kW) \times hours\ in\ year}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data 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 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 DNO→ secondary nested DNO→customer).
Non-Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can be made available on demand, in accordance to the definitions in Engineering Recommendation P2/6.
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.

Term	Definition
Unmetered Supplies	Exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001 and where operated in accordance with BSC procedure 520.
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[16]

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

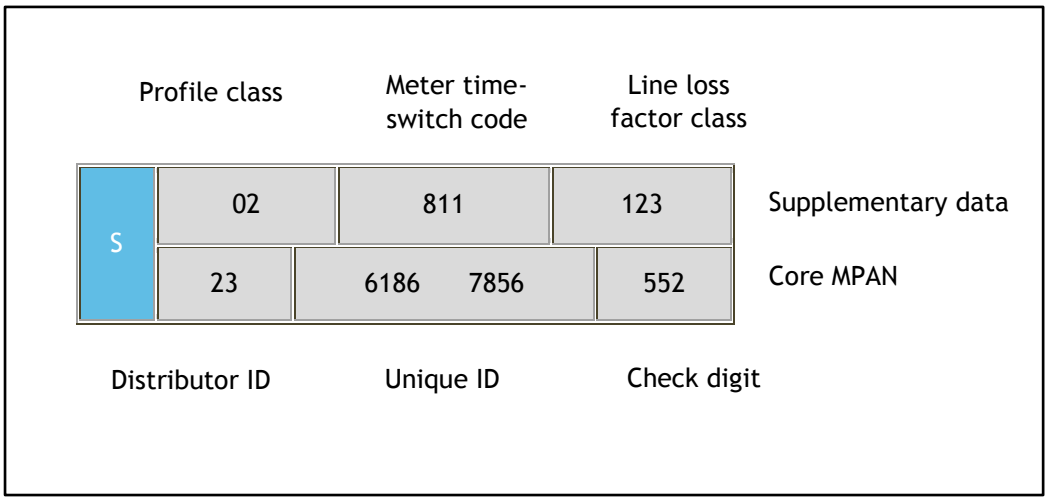
1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a school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

[16] 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 line loss factor class 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 core MPAN. The Distributor ID for Northern Powergrid Yorkshire is 23. Other Distributor IDs can be referenced in the glossary.

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

- '01' Domestic customers with unrestricted supply
- '02' Domestic customers with restricted load, for example off-peak heating
- '03' Non-domestic customers with unrestricted supply
- '04' Non-domestic customers with restricted load, for example off-peak heating
- '05' Non-domestic maximum demand customers with a Load Factor of less than 20%
- '06' Non-domestic maximum demand customers with a Load Factor between 20% and 30%
- '07' Non-domestic maximum demand customers with a Load Factor between 30% and 40%
- '08' Non-domestic maximum demand customers with a Load Factor over 40% or non-half-hourly metered generation customers
- '00' Half-hourly metered demand and generation customers

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

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

Your charges

1.12. All distribution charges that relate to our Distributor ID 23 are provided in this statement.

1.13. You can identify your charges by referencing your line loss factor class, 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 line loss factor classes have more than one charge. In this instance you will need to select the correct charge by cross referencing with the core MPAN 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, 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 Extra-High Voltage or connected at High Voltage and metered at a high voltage 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.

Annex 1 - Schedule of Charges for use of the Distribution System by LV and HV Designated Properties

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2019 - 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 Unrestricted *	100	1	1.832			5.78				999
Domestic Two Rate *	120	2	2.083	1.065		5.78				
Domestic Off Peak (related MPAN)	111	2	1.212							
Small Non Domestic Unrestricted	240	3	2.117			6.11				
Small Non Domestic Two Rate	246	4	2.269	1.131		6.11				
Small Non Domestic Off Peak (related MPAN)	214	4	1.255							
LV Medium Non-Domestic	290	5-8	2.049	1.048		35.31				
LV Sub Medium Non-Domestic	0	5-8	1.616	1.013		17.88				
HV Medium Non-Domestic	580	5-8	1.475	0.994		267.88				
LV Network Domestic *	279	0	4.773	1.730	1.038	5.78				
LV Network Non-Domestic Non-CT	299	0	5.877	1.953	1.061	6.11				
LV HH Metered	281	0	4.229	1.602	1.025	17.88	1.34	2.96	0.149	
LV Sub HH Metered	471	0	3.221	1.373	1.002	17.88	1.64	2.64	0.094	
HV HH Metered	581	0	2.657	1.238	0.988	172.52	1.88	3.12	0.064	
NHH UMS category A	814	8	1.601							
NHH UMS category B	815	1	1.706							
NHH UMS category C	816	1	2.312							
NHH UMS category D	817	1	1.546							
LV UMS (Pseudo HH Metered)	813 & 913	0	10.676	1.651	1.035					
LV Generation NHH or Aggregate HH	20	8&0	(0.511)							
LV Sub Generation NHH	30	8	(0.454)							
LV Generation Intermittent	22	0	(0.511)						0.114	
LV Generation Intermittent no RP charge	222	0	(0.511)							
LV Generation Non-Intermittent	24	0	(2.852)	(0.575)	(0.058)				0.114	
LV Generation Non-Intermittent no RP charge	224	0	(2.852)	(0.575)	(0.058)					
LV Sub Generation Intermittent	23	0	(0.454)						0.108	
LV Sub Generation Intermittent no RP charge	223	0	(0.454)							
LV Sub Generation Non-Intermittent	25	0	(2.547)	(0.506)	(0.050)				0.108	
LV Sub Generation Non-Intermittent no RP charge	225	0	(2.547)	(0.506)	(0.050)					
HV Generation Intermittent	26	0	(0.318)			98.94			0.087	
HV Generation Intermittent no RP charge	226	0	(0.318)			98.94				
HV Generation Non-Intermittent	28	0	(1.859)	(0.334)	(0.033)	98.94			0.087	
HV Generation Non-Intermittent no RP charge	228	0	(1.859)	(0.334)	(0.033)	98.94				

*The fixed charges for these tariffs are inclusive of the Ofgem approved adjustment (0.08p/day) to recover Octopus Energy Limited's last resort supply payment claim: https://www.ofgem.gov.uk/publications-and-updates/decision-grant-all-dnos-derogations-charging-years-201920-and-202021-due-last-resort-supply-payment-claim

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	750	2300000599657 2336541294017				EHV Site Specific (LLFC 750)	0.534		8.00	8.00				
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038				EHV Site Specific (LLFC 751)	0.015	4,276.52	1.64	1.64				
	753	2356555555010		90	2394000039650	EHV Site Specific (LLFC 753 & 90)	0.564	5,111.21	2.54	2.54		85.19	0.05	0.05
	754	2356555554017 2380002015807		82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)	0.667	5,474.85	1.48	1.48		273.74	0.05	0.05
	755	2316521850010		76	2394000039641	EHV Site Specific (LLFC 755 & 76)	0.079	2,362.00	2.06	2.06		236.20	0.05	0.05
	756	2346540436013		75	2394000039679	EHV Site Specific (LLFC 756 & 75)	0.019	4,833.86	1.26	1.26		362.54	0.05	0.05
	757	2336566756217		95	2394000060226	EHV Site Specific (LLFC 757 & 95)		294.72	1.08	1.08	(0.014)	620.44	0.05	0.05
	758	TBC				EHV Site Specific (LLFC 758)			1.07	1.07				
	804	MSID_0645		800	TBC	EHV Site Specific (LLFC 804 & 800)	0.026	8,798.44	1.98	1.98	(0.025)	1,442.37	0.05	0.05
	760	2300000880966 2376509001013		60	2300000233736 2300000880975	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		817.01	1.35	1.35				
	761	2300000526686 2336518071011				EHV Site Specific (LLFC 761)	0.004	333.49	0.88	0.88				
	762	2300000457400		62	2300000457410	EHV Site Specific - Generation Exempt (LLFC 762 & 62)	0.005	18.06	1.17	1.17				
	763	2300000775853		80	2300000948904	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.038	138.30	0.94	0.94				
	764	2300000233959 2300000233968 2300000233977				EHV Site Specific (LLFC 764)	0.013	3,511.86	0.62	0.62				
	765	2300000457084 2390000010840 2390000010859				EHV Site Specific (LLFC 765)	0.757	1,862.45	2.27	2.27				
	766	2376508030013 2376508030022		66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		72.68	1.10	1.10				
	767	MSID_7021		67	MSID_7020	EHV Site Specific (LLFC 767 & 67)		201.63	0.92	0.92	(0.002)	4,990.28	0.05	0.05
	769	2346526241119		128	2394000133317	EHV Site Specific (LLFC 769 & 128)			1.18	1.18			0.05	0.05
	771	2366591376117		92	2394000019176	EHV Site Specific (LLFC 771 & 92)			1.07	1.07			0.05	0.05
	772	2366591373116				EHV Site Specific (LLFC 772)			3.04	3.04				
	773	2366591486111 2380002104680		65	2394000117991	EHV Site Specific (LLFC 773 & 65)			1.61	1.61			0.05	0.05
	774	2326522910011 2326522910020		74	2394000002925 2394100008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.018	70.23	2.13	2.13				
	775	2380000531989		87	2394000024440	EHV Site Specific (LLFC 775 & 87)	0.053	251.18	0.91	0.91	(0.158)	961.32	0.05	0.05
	777	2300000233596		77	2300000233610	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.551	2.81	1.04	1.04				
	778	2300000443816		78	2300000443825	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		8.13	2.65	2.65		653.23	0.05	0.05
	780	2380000825051				EHV Site Specific (LLFC 780)	0.006	804.88	0.53	0.53				
	781	2300000790540		81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)		69.50	0.98	0.98				
	782	2300001016288 2300001016297				EHV Site Specific (LLFC 782)	0.624	333.49	2.78	2.78				
	783	2300000974268		83	2300000974408 2394000113560 2394000135253	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.028	3.55	1.41	1.41				
	784	2300001007247		84	2300001007256	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.036	0.44	1.45	1.45				
	785	2380000151720		85	2394000011646	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.112	1.25	0.90	0.90				

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)
	786	2380000148115		86	2391100013704 2394000011502	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.83	0.94	0.94				
	787	2380000123421 2380000123430		129	2394000134454 2394000134463	EHV Site Specific (LLFC 787 & 129)		724.50	1.99	1.99		190.66	0.05	0.05
	788	2380000654644		88	2394000027673	EHV Site Specific (LLFC 788 & 88)	0.063	93.83	1.32	1.32	(0.308)	2,502.12	0.05	0.05
	789	2380001118812		89	2394000043364	EHV Site Specific (LLFC 789 & 89)		60.22	1.59	1.59	(0.123)	2,535.74	0.05	0.05
	790	2380001476585		94	2394000056790	EHV Site Specific (LLFC 790 & 94)	0.018	21.21	1.14	1.14		1,428.93	0.05	0.05
	791	2380001494334		93	2394000058333	EHV Site Specific (LLFC 791 & 93)	0.026	3.24	1.26	1.26	(0.259)	163.50	0.05	0.05
	793	2380001252829 2380001252838 2380001767827		91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)	0.277	102.53	1.14	1.14		1,742.38	0.05	0.05
	794	2380001458911		97	2394000055174	EHV Site Specific (LLFC 794 & 97)	0.493	341.77	1.06	1.06		10,792.66	0.05	0.05
	795	2380001532167 2380001532176				EHV Site Specific (LLFC 795)	0.083	1,272.47	1.11	1.11				
	796	2380001635401		98	2394000072198	EHV Site Specific (LLFC 796 & 98)		58.98	0.53	0.53		5,922.47	0.05	0.05
	831	2316530305110 2316530305129				EHV Site Specific (LLFC 831)	3.867	85.63	7.47	7.47				
	832	2316541311014				EHV Site Specific (LLFC 832)	1.544	85.63	3.16	3.16				
	833	2326511015014 2326511015023				EHV Site Specific (LLFC 833)	4.421	85.63	4.68	4.68				
	834	2300000456903 2300000516605 2326531140128				EHV Site Specific (LLFC 834)	0.178	128.44	3.22	3.22				
	835	2300000473625 2336505790019				EHV Site Specific (LLFC 835)	0.895	85.63	6.83	6.83				
	836	2300000473616 2336506255013				EHV Site Specific (LLFC 836)	0.668	85.63	7.77	7.77				
	837	2300000473634 2336526022010		34	2394000106234	EHV Site Specific (LLFC 837 & 34)	0.157	58.47	1.78	1.78		27.16	0.05	0.05
	838	2300000584925 2336559992019				EHV Site Specific (LLFC 838)	0.197	85.63	1.84	1.84				
	839	2300000233833 2336566356211		68	2300000233898	EHV Site Specific (LLFC 839 & 68)	0.021	36.06	1.07	1.07	(0.021)	49.57	0.05	0.05
	840	2336566566018				EHV Site Specific (LLFC 840)	0.609	42.81	4.36	4.36				
	841	2300000539365 2300000539374 2336590660028 2336590660037				EHV Site Specific (LLFC 841)	0.190	171.26	7.00	7.00				
	842	TBC				EHV Site Specific (LLFC 842)	0.018	85.63	1.67	1.67				
	843	TBC				EHV Site Specific (LLFC 843)	0.495	42.81	1.81	1.81				
	844	2356530330014 2356530330023				EHV Site Specific (LLFC 844)	0.468	85.63	6.11	6.11				
	845	2356562495011				EHV Site Specific (LLFC 845)	0.747	42.81	3.20	3.20				
	846	2300000601321				EHV Site Specific (LLFC 846)	1.386	42.81	6.16	6.16				
	847	TBC				EHV Site Specific (LLFC 847)	0.519	42.81	1.46	1.46				
	848	2300000457377 2366560264112				EHV Site Specific (LLFC 848)	0.519	85.63	7.25	7.25				
	849	2300000652292 2376503256010				EHV Site Specific (LLFC 849)		85.63	2.21	2.21				
	850	2300000647051 2300000647060 2376552920013 2376552920022				EHV Site Specific (LLFC 850)	1.305	171.26	4.89	4.89				
	851	2376550825013 2380000000543 2380000004097				EHV Site Specific (LLFC 851)	0.160	171.26	4.21	4.21				
	852	2380000257932		71	2394000016040	EHV Site Specific (LLFC 852 & 71)		2.40	1.07	1.07		40.42	0.05	0.05
	853	2380000428837 2380000428846				EHV Site Specific (LLFC 853)	0.041	85.63	1.32	1.32				
	854	2380000476088		72	2394000022132	EHV Site Specific (LLFC 854 & 72)		0.99	1.07	1.07		41.82	0.05	0.05

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	855	2380000724195 2380001078977 2380001078986 2380001078995 2380001079001 2380001079321				EHV Site Specific (LLFC 855)	0.018	256.89	3.68	3.68				
	856	2380001519750 2380001519760 2380001519779 2380001519788				EHV Site Specific (LLFC 856)	0.177	6,317.52	1.35	1.35				
	857	2300000526046				EHV Site Specific (LLFC 857)	1.696	42.81	4.36	4.36				
	858	2326526290016 2326526290025 2380002292920				EHV Site Specific (LLFC 858)	1.675	85.63	2.18	2.18				
	859	2336525711011 2336525711020				EHV Site Specific (LLFC 859)	0.119	85.63	2.76	2.76				
	860	2336526332017 2336526332026				EHV Site Specific (LLFC 860)	0.167	171.26	2.38	2.38				
	861	2300000493180 2300000552125 2336552115017 2336552115026				EHV Site Specific (LLFC 861)	0.068	171.26	3.98	3.98				
	862	2300000234163 2300000234172 2336590770013 2336590770022				EHV Site Specific (LLFC 862)	0.784	171.26	4.21	4.21				
	863	2300000234066 2300000234075 2300000234084 2336590810010				EHV Site Specific (LLFC 863)	0.427	171.26	4.68	4.68				
	864	2300000478970				EHV Site Specific (LLFC 864)	0.247	42.81	1.73	1.73				
	865	2346530035017 2346530035026				EHV Site Specific (LLFC 865)	0.447	85.63	4.65	4.65				
	867	2346534433019 2346534433028				EHV Site Specific (LLFC 867)	0.229	85.63	4.08	4.08				
	868	2356530030015 2356530030024				EHV Site Specific (LLFC 868)	0.010	85.63	3.30	3.30				
	869	2356530321010 2356530321029				EHV Site Specific (LLFC 869)	0.468	85.63	5.51	5.51				
	870	2356530620210 2356530620229		36	2394000129436	EHV Site Specific (LLFC 870 & 36)	0.028	69.23	1.07	1.07	(0.028)	102.02	0.05	0.05
	871	2366540061017 2366540061026				EHV Site Specific (LLFC 871)	0.783	85.63	3.15	3.15				
	872	2300000674055 2300000674064				EHV Site Specific (LLFC 872)	0.089	85.63	4.15	4.15				
	873	2300000777530 2366540110116				EHV Site Specific (LLFC 873)	0.079	85.63	1.64	1.64				
	874	2300000542828		32	2300000542819	EHV Site Specific (LLFC 874 & 32)		1.56	1.62	1.62		41.26	0.05	0.05
	875	2366560263119				EHV Site Specific (LLFC 875)	0.519	85.63	2.55	2.55				
	876	2300000699565 2366591250015				EHV Site Specific (LLFC 876)	0.251	85.63	5.20	5.20				
	877	2366591617013				EHV Site Specific (LLFC 877)	1.335	85.63	6.52	6.52				
	878	2376501360010				EHV Site Specific (LLFC 878)	0.314	85.63	4.46	4.46				
	879	2376502195011				EHV Site Specific (LLFC 879)	0.080	42.81	1.98	1.98				
	880	2300000792050				EHV Site Specific (LLFC 880)	0.172	85.63	2.83	2.83				
	881	2300000634415 2376552766015				EHV Site Specific (LLFC 881)	0.172	85.63	3.36	3.36				
	882	2300000826383		69	2300000930377	EHV Site Specific (LLFC 882 & 69)	2.088	233.89	0.95	0.95	(2.088)	1,739.82	0.05	0.05
	883	2376503230011 2376508010017 2390000002440 2390000002459				EHV Site Specific (LLFC 883)	0.248	85.63	3.79	3.79				
	884	2300000233754				EHV Site Specific (LLFC 884)	0.022	42.81	2.46	2.46				
	886	2380001187667				EHV Site Specific (LLFC 886)	0.197	42.81	2.02	2.02				

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	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658				EHV Site Specific (LLFC 888)	0.149	214.07	1.62	1.62				
	889	2380001564275		70	2394000039590	EHV Site Specific (LLFC 889 & 70)	0.067	1.08	1.12	1.12	(0.067)	41.73	0.05	0.05
	797	2390000079381		99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.422	1.30	2.02	2.02				
	798	2380001746400		61	2394000083311	EHV Site Specific (LLFC 798 & 61)		35.20	1.16	1.16		2,844.62	0.05	0.05
	799	2380001812550		51	2394000089457	EHV Site Specific (LLFC 799 & 51)	0.079	23.84	1.12	1.12	(0.129)	2,384.30	0.05	0.05
	821	2380001851381		52	2394000093027	EHV Site Specific (LLFC 821 & 52)	0.136	2.46	1.76	1.76		164.28	0.05	0.05
	822	2380001883036 2380001883045		53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)	0.135	7.71	1.69	1.69		325.79	0.05	0.05
	823	2380001877557		54	2394000097068	EHV Site Specific (LLFC 823 & 54)	0.455	2.33	5.36	5.36		164.41	0.05	0.05
	824	MSID_7275		55	MSID_7275	EHV Site Specific (LLFC 824 & 55)		22.35	1.09	1.09		770.95	0.05	0.05
	826	2380001874087		57	2394000094590	EHV Site Specific (LLFC 826 & 57)	0.128	37.36	1.83	1.83		2,368.87	0.05	0.05
	866	2346534400013 2346534400022				EHV Site Specific (LLFC 866)	0.483	42.81	1.93	1.93				
	827	2380001838371		58	2394000091952	EHV Site Specific (LLFC 827 & 58)	0.003	1.19	1.15	1.15	(0.040)	165.56	0.05	0.05
	768	2380001882798		59	2394000095804	EHV Site Specific (LLFC 768 & 59)	0.018	2.57	1.28	1.28		164.17	0.05	0.05
	801	2380001905070		105	2394000098805	EHV Site Specific (LLFC 801 & 105)	0.392	7.10	1.23	1.23		450.48	0.05	0.05
	792	2380001951360		96	2394000102693	EHV Site Specific (LLFC 792 & 96)		31.24	0.51	0.51		2,564.72	0.05	0.05
	806	2380002166640		109	2394000122500	EHV Site Specific (LLFC 806 & 109)	0.021	42.60	1.15	1.15		1,559.39	0.05	0.05
	803	2380001909066		107	2394000099074	EHV Site Specific (LLFC 803 & 107)		3.63	1.30	1.30		453.95	0.05	0.05
	805	2380001989309		108	2394000107353	EHV Site Specific (LLFC 805 & 108)	0.371	24.04	4.22	4.22		3,373.34	0.05	0.05
	825	2380002022460		56	2394000110630	EHV Site Specific (LLFC 825 & 56)	0.059	5.60	1.41	1.41		483.75	0.05	0.05
	802	2380001909075 2380001909084		106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	0.122	163.76	0.87	0.87	(0.134)	1,103.06	0.05	0.05
	807	2380002032360		63	2394000111660	EHV Site Specific (LLFC 807 & 63)		134.71	0.70	0.70		1,120.21	0.05	0.05
	810	2380002115663		110	2394000118693	EHV Site Specific (LLFC 810 & 110)	0.040	510.85	0.86	0.86	(0.040)	5,977.19	0.05	0.05
	885	2366560312013		31	2300000542785	EHV Site Specific (LLFC 885 & 31)	0.003	66.04	1.31	1.31	(0.003)	2,606.90	0.05	0.05
	829	2380002197132		43	2394000124303	EHV Site Specific (LLFC 829 & 43)	1.081	1.99	1.63	1.63		164.76	0.05	0.05
	830	2380002155666		44	2394000121845	EHV Site Specific (LLFC 830 & 44)	0.056	26.62	1.45	1.45	(0.385)	140.12	0.05	0.05
	726	TBC		45	TBC	EHV Site Specific (LLFC 726 & 45)		10.71	2.00	2.00		856.44	0.05	0.05
	727	2380002198730		46	2394000124400	EHV Site Specific (LLFC 727 & 46)	0.505	49.67	1.61	1.61		5,474.20	0.05	0.05
	728	2380002182970		47	2394000123434	EHV Site Specific (LLFC 728 & 47)	0.281	106.04	1.17	1.17		7,627.46	0.05	0.05
	729	2380002286980		48	2394000130956	EHV Site Specific (LLFC 729 & 48)		12.14	1.10	1.10		711.00	0.05	0.05
	730	2380002248104		49	2394000127847	EHV Site Specific (LLFC 730 & 49)	0.127	96.52	1.31	1.31		4,475.42	0.05	0.05
	809	2380002046577		64	2394000113278	EHV Site Specific (LLFC 809 & 64)		42.60	2.39	2.39		2,107.27	0.05	0.05
	731	2380002277531		50	2394000129589	EHV Site Specific (LLFC 731 & 50)	0.009	6.49	2.58	2.58		2,888.87	0.05	0.05
	732	2380002328451		114	2394000132642	EHV Site Specific (LLFC 732 & 114)	0.028	8.57	3.15	3.15		708.15	0.05	0.05
	733	2380002296933		115	2394000131490	EHV Site Specific (LLFC 733 & 115)		12.52	1.09	1.09		445.06	0.05	0.05
	734	2380002293199		116	2394000131338	EHV Site Specific (LLFC 734 & 116)	0.002	12.21	1.51	1.51	(0.331)	342.84	0.05	0.05
	735	2380002270518		117	2394000129250	EHV Site Specific (LLFC 735 & 117)	0.270	20.01	1.21	1.21		528.14	0.05	0.05
	736	2380002293170		118	2394000131329	EHV Site Specific (LLFC 736 & 118)		91.00	1.62	1.62	(0.003)	536.46	0.05	0.05
	738	2380002299970		124	2394000131773	EHV Site Specific (LLFC 738 & 124)	0.003	94.01	0.89	0.89		3,893.52	0.05	0.05
	739	2380002287210		125	2394000130965	EHV Site Specific (LLFC 739 & 125)		1.31	1.21	1.21		165.44	0.05	0.05
	737	2380002287229		119	2394000130974	EHV Site Specific (LLFC 737 & 119)		1.31	1.91	1.91		165.44	0.05	0.05
	740	2380002309867		126	2394000132094	EHV Site Specific (LLFC 740 & 126)	0.375	38.26	2.52	2.52	(0.483)	876.90	0.05	0.05
	745	2380002315851		127	2394000132252	EHV Site Specific (LLFC 745 & 127)		409.02	1.33	1.33		4,090.16	0.05	0.05
	892	2300000839364				EHV Site Specific (LLFC 892)	1.675	42.81	2.01	2.01				
	893	2300000646962 2300000647006				EHV Site Specific (LLFC 893)		85.63	2.14	2.14				
	746	2380002366660 2380002366670		511	2394000133831 2394000133840	EHV Site Specific (LLFC 746 & 511)	0.015	4,587.15	2.41	2.41	(0.331)	2,069.46	0.05	0.05
	747	2380002391996		512	2394000134668	EHV Site Specific (LLFC 747 & 512)	0.001	111.17	2.46	2.46	(0.047)	2,668.07	0.05	0.05
	748	2380002397394		513	2394000134914	EHV Site Specific (LLFC 748 & 513)		146.94	1.62	1.62	(0.002)	2,449.01	0.05	0.05
	749	2380002410098		514	2394000135129	EHV Site Specific (LLFC 749 & 514)		43.25	1.62	1.62	(0.001)	584.21	0.05	0.05
	901	2380002419106		515	2394000135305	EHV Site Specific (LLFC 901 & 515)	0.013	7.11	1.93	1.93	(0.034)	159.64	0.05	0.05
	902	TBC		516	TBC	EHV Site Specific (LLFC 902 & 516)		82.74	0.21	0.21		3,107.24	0.05	0.05
	894	2300000444962 2366531830013				EHV Site Specific (LLFC 894)	1.386	85.63	2.67	2.67				

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	750	2300000599657 2336541294017	EHV Site Specific (LLFC 750)	0.534		8.00	8.00
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038	EHV Site Specific (LLFC 751)	0.015	4,276.52	1.64	1.64
	753	2356555555010	EHV Site Specific (LLFC 753 & 90)	0.564	5,111.21	2.54	2.54
	754	2356555554017 2380002015807	EHV Site Specific (LLFC 754 & 82)	0.667	5,474.85	1.48	1.48
	755	2316521850010	EHV Site Specific (LLFC 755 & 76)	0.079	2,362.00	2.06	2.06
	756	2346540436013	EHV Site Specific (LLFC 756 & 75)	0.019	4,833.86	1.26	1.26
	757	2336566756217	EHV Site Specific (LLFC 757 & 95)		294.72	1.08	1.08
	758	TBC	EHV Site Specific (LLFC 758)			1.07	1.07
	804	MSID_0645	EHV Site Specific (LLFC 804 & 800)	0.026	8,798.44	1.98	1.98
	760	2300000880966 2376509001013	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		817.01	1.35	1.35
	761	2300000526686 2336518071011	EHV Site Specific (LLFC 761)	0.004	333.49	0.88	0.88
	762	2300000457400	EHV Site Specific - Generation Exempt (LLFC 762 & 62)	0.005	18.06	1.17	1.17
	763	2300000775853	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.038	138.30	0.94	0.94
	764	2300000233959 2300000233968 2300000233977	EHV Site Specific (LLFC 764)	0.013	3,511.86	0.62	0.62
	765	2300000457084 2390000010840 2390000010859	EHV Site Specific (LLFC 765)	0.757	1,862.45	2.27	2.27
	766	2376508030013 2376508030022	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		72.68	1.10	1.10
	767	MSID_7021	EHV Site Specific (LLFC 767 & 67)		201.63	0.92	0.92
	769	2346526241119	EHV Site Specific (LLFC 769 & 128)			1.18	1.18
	771	2366591376117	EHV Site Specific (LLFC 771 & 92)			1.07	1.07
	772	2366591373116	EHV Site Specific (LLFC 772)			3.04	3.04
	773	2366591486111 2380002104680	EHV Site Specific (LLFC 773 & 65)			1.61	1.61
	774	2326522910011 2326522910020	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.018	70.23	2.13	2.13
	775	2380000531989	EHV Site Specific (LLFC 775 & 87)	0.053	251.18	0.91	0.91
	777	2300000233596	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.551	2.81	1.04	1.04
	778	2300000443816	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		8.13	2.65	2.65
	780	2380000825051	EHV Site Specific (LLFC 780)	0.006	804.88	0.53	0.53
	781	2300000790540	EHV Site Specific - Generation Exempt (LLFC 781 & 81)		69.50	0.98	0.98
	782	2300001016288 2300001016297	EHV Site Specific (LLFC 782)	0.624	333.49	2.78	2.78
	783	2300000974268	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.028	3.55	1.41	1.41
	784	2300001007247	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.036	0.44	1.45	1.45
	785	2380000151720	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.112	1.25	0.90	0.90
	786	2380000148115	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.83	0.94	0.94
	787	2380000123421 2380000123430	EHV Site Specific (LLFC 787 & 129)		724.50	1.99	1.99
	788	2380000654644	EHV Site Specific (LLFC 788 & 88)	0.063	93.83	1.32	1.32
	789	2380001118812	EHV Site Specific (LLFC 789 & 89)		60.22	1.59	1.59
	790	2380001476585	EHV Site Specific (LLFC 790 & 94)	0.018	21.21	1.14	1.14
	791	2380001494334	EHV Site Specific (LLFC 791 & 93)	0.026	3.24	1.26	1.26
	793	2380001252829 2380001252838 2380001767827	EHV Site Specific (LLFC 793 & 91)	0.277	102.53	1.14	1.14
	794	2380001458911	EHV Site Specific (LLFC 794 & 97)	0.493	341.77	1.06	1.06
	795	2380001532167 2380001532176	EHV Site Specific (LLFC 795)	0.083	1,272.47	1.11	1.11
	796	2380001635401	EHV Site Specific (LLFC 796 & 98)		58.98	0.53	0.53
	831	2316530305110 2316530305129	EHV Site Specific (LLFC 831)	3.867	85.63	7.47	7.47
	832	2316541311014	EHV Site Specific (LLFC 832)	1.544	85.63	3.16	3.16
	833	2326511015014 2326511015023	EHV Site Specific (LLFC 833)	4.421	85.63	4.68	4.68
	834	2300000456903 2300000516605 2326531140128	EHV Site Specific (LLFC 834)	0.178	128.44	3.22	3.22
	835	2300000473625 2336505790019	EHV Site Specific (LLFC 835)	0.895	85.63	6.83	6.83
	836	2300000473616 2336506255013	EHV Site Specific (LLFC 836)	0.668	85.63	7.77	7.77
	837	2300000473634 2336526022010	EHV Site Specific (LLFC 837 & 34)	0.157	58.47	1.78	1.78
	838	2300000584925 2336559992019	EHV Site Specific (LLFC 838)	0.197	85.63	1.84	1.84
	839	2300000233833 2336566356211	EHV Site Specific (LLFC 839 & 68)	0.021	36.06	1.07	1.07

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	840	2336566566018	EHV Site Specific (LLFC 840)	0.609	42.81	4.36	4.36
	841	2300000539365 2300000539374 2336590660028 2336590660037	EHV Site Specific (LLFC 841)	0.190	171.26	7.00	7.00
	842	TBC	EHV Site Specific (LLFC 842)	0.018	85.63	1.67	1.67
	843	TBC	EHV Site Specific (LLFC 843)	0.495	42.81	1.81	1.81
	844	2356530330014 2356530330023	EHV Site Specific (LLFC 844)	0.468	85.63	6.11	6.11
	845	2356562495011	EHV Site Specific (LLFC 845)	0.747	42.81	3.20	3.20
	846	2300000601321	EHV Site Specific (LLFC 846)	1.386	42.81	6.16	6.16
	847	TBC	EHV Site Specific (LLFC 847)	0.519	42.81	1.46	1.46
	848	2300000457377 2366560264112	EHV Site Specific (LLFC 848)	0.519	85.63	7.25	7.25
	849	2300000652292 2376503256010	EHV Site Specific (LLFC 849)		85.63	2.21	2.21
	850	2300000647051 2300000647060 2376552920013 2376552920022	EHV Site Specific (LLFC 850)	1.305	171.26	4.89	4.89
	851	2376550825013 2380000000543 2380000004097	EHV Site Specific (LLFC 851)	0.160	171.26	4.21	4.21
	852	2380000257932	EHV Site Specific (LLFC 852 & 71)		2.40	1.07	1.07
	853	2380000428837 2380000428846	EHV Site Specific (LLFC 853)	0.041	85.63	1.32	1.32
	854	2380000476088	EHV Site Specific (LLFC 854 & 72)		0.99	1.07	1.07
	855	2380000724195 2380001078977 2380001078986 2380001078995 2380001079001 2380001079321	EHV Site Specific (LLFC 855)	0.018	256.89	3.68	3.68
	856	2380001519750 2380001519760 2380001519779 2380001519788	EHV Site Specific (LLFC 856)	0.177	6,317.52	1.35	1.35
	857	2300000526046	EHV Site Specific (LLFC 857)	1.696	42.81	4.36	4.36
	858	2326526290016 2326526290025 2380002292920	EHV Site Specific (LLFC 858)	1.675	85.63	2.18	2.18
	859	2336525711011 2336525711020	EHV Site Specific (LLFC 859)	0.119	85.63	2.76	2.76
	860	2336526332017 2336526332026	EHV Site Specific (LLFC 860)	0.167	171.26	2.38	2.38
	861	2300000493180 2300000552125 2336552115017 2336552115026	EHV Site Specific (LLFC 861)	0.068	171.26	3.98	3.98
	862	2300000234163 2300000234172 2336590770013 2336590770022	EHV Site Specific (LLFC 862)	0.784	171.26	4.21	4.21
	863	2300000234066 2300000234075 2300000234084 2336590810010	EHV Site Specific (LLFC 863)	0.427	171.26	4.68	4.68
	864	2300000478970	EHV Site Specific (LLFC 864)	0.247	42.81	1.73	1.73
	865	2346530035017 2346530035026	EHV Site Specific (LLFC 865)	0.447	85.63	4.65	4.65
	867	2346534433019 2346534433028	EHV Site Specific (LLFC 867)	0.229	85.63	4.08	4.08
	868	2356530030015 2356530030024	EHV Site Specific (LLFC 868)	0.010	85.63	3.30	3.30
	869	2356530321010 2356530321029	EHV Site Specific (LLFC 869)	0.468	85.63	5.51	5.51
	870	2356530620210 2356530620229	EHV Site Specific (LLFC 870 & 36)	0.028	69.23	1.07	1.07
	871	2366540061017 2366540061026	EHV Site Specific (LLFC 871)	0.783	85.63	3.15	3.15
	872	2300000674055 2300000674064	EHV Site Specific (LLFC 872)	0.089	85.63	4.15	4.15
	873	2300000777530 2366540110116	EHV Site Specific (LLFC 873)	0.079	85.63	1.64	1.64
	874	2300000542828	EHV Site Specific (LLFC 874 & 32)		1.56	1.62	1.62
	875	2366560263119	EHV Site Specific (LLFC 875)	0.519	85.63	2.55	2.55
	876	2300000699565 2366591250015	EHV Site Specific (LLFC 876)	0.251	85.63	5.20	5.20
	877	2366591617013	EHV Site Specific (LLFC 877)	1.335	85.63	6.52	6.52
	878	2376501360010	EHV Site Specific (LLFC 878)	0.314	85.63	4.46	4.46
	879	2376502195011	EHV Site Specific (LLFC 879)	0.080	42.81	1.98	1.98

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	880	2300000792050	EHV Site Specific (LLFC 880)	0.172	85.63	2.83	2.83
	881	2300000634415 2376552766015	EHV Site Specific (LLFC 881)	0.172	85.63	3.36	3.36
	882	2300000826383	EHV Site Specific (LLFC 882 & 69)	2.088	233.89	0.95	0.95
	883	2376503230011 2376508010017 2390000002440 2390000002459	EHV Site Specific (LLFC 883)	0.248	85.63	3.79	3.79
	884	2300000233754	EHV Site Specific (LLFC 884)	0.022	42.81	2.46	2.46
	886	2380001187667	EHV Site Specific (LLFC 886)	0.197	42.81	2.02	2.02
	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658	EHV Site Specific (LLFC 888)	0.149	214.07	1.62	1.62
	889	2380001564275	EHV Site Specific (LLFC 889 & 70)	0.067	1.08	1.12	1.12
	797	2390000079381	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.422	1.30	2.02	2.02
	798	2380001746400	EHV Site Specific (LLFC 798 & 61)		35.20	1.16	1.16
	799	2380001812550	EHV Site Specific (LLFC 799 & 51)	0.079	23.84	1.12	1.12
	821	2380001851381	EHV Site Specific (LLFC 821 & 52)	0.136	2.46	1.76	1.76
	822	2380001883036 2380001883045	EHV Site Specific (LLFC 822 & 53)	0.135	7.71	1.69	1.69
	823	2380001877557	EHV Site Specific (LLFC 823 & 54)	0.455	2.33	5.36	5.36
	824	MSID_7275	EHV Site Specific (LLFC 824 & 55)		22.35	1.09	1.09
	826	2380001874087	EHV Site Specific (LLFC 826 & 57)	0.128	37.36	1.83	1.83
	866	2346534400013 2346534400022	EHV Site Specific (LLFC 866)	0.483	42.81	1.93	1.93
	827	2380001838371	EHV Site Specific (LLFC 827 & 58)	0.003	1.19	1.15	1.15
	768	2380001882798	EHV Site Specific (LLFC 768 & 59)	0.018	2.57	1.28	1.28
	801	2380001905070	EHV Site Specific (LLFC 801 & 105)	0.392	7.10	1.23	1.23
	792	2380001951360	EHV Site Specific (LLFC 792 & 96)		31.24	0.51	0.51
	806	2380002166640	EHV Site Specific (LLFC 806 & 109)	0.021	42.60	1.15	1.15
	803	2380001909066	EHV Site Specific (LLFC 803 & 107)		3.63	1.30	1.30
	805	2380001989309	EHV Site Specific (LLFC 805 & 108)	0.371	24.04	4.22	4.22
	825	2380002022460	EHV Site Specific (LLFC 825 & 56)	0.059	5.60	1.41	1.41
	802	2380001909075 2380001909084	EHV Site Specific (LLFC 802 & 106)	0.122	163.76	0.87	0.87
	807	2380002032360	EHV Site Specific (LLFC 807 & 63)		134.71	0.70	0.70
	810	2380002115663	EHV Site Specific (LLFC 810 & 110)	0.040	510.85	0.86	0.86
	885	2366560312013	EHV Site Specific (LLFC 885 & 31)	0.003	66.04	1.31	1.31
	829	2380002197132	EHV Site Specific (LLFC 829 & 43)	1.081	1.99	1.63	1.63
	830	2380002155666	EHV Site Specific (LLFC 830 & 44)	0.056	26.62	1.45	1.45
	726	TBC	EHV Site Specific (LLFC 726 & 45)		10.71	2.00	2.00
	727	2380002198730	EHV Site Specific (LLFC 727 & 46)	0.505	49.67	1.61	1.61
	728	2380002182970	EHV Site Specific (LLFC 728 & 47)	0.281	106.04	1.17	1.17
	729	2380002286980	EHV Site Specific (LLFC 729 & 48)		12.14	1.10	1.10
	730	2380002248104	EHV Site Specific (LLFC 730 & 49)	0.127	96.52	1.31	1.31
	809	2380002046577	EHV Site Specific (LLFC 809 & 64)		42.60	2.39	2.39
	731	2380002277531	EHV Site Specific (LLFC 731 & 50)	0.009	6.49	2.58	2.58
	732	2380002328451	EHV Site Specific (LLFC 732 & 114)	0.028	8.57	3.15	3.15
	733	2380002296933	EHV Site Specific (LLFC 733 & 115)		12.52	1.09	1.09
	734	2380002293199	EHV Site Specific (LLFC 734 & 116)	0.002	12.21	1.51	1.51
	735	2380002270518	EHV Site Specific (LLFC 735 & 117)	0.270	20.01	1.21	1.21
	736	2380002293170	EHV Site Specific (LLFC 736 & 118)		91.00	1.62	1.62
	738	2380002299970	EHV Site Specific (LLFC 738 & 124)	0.003	94.01	0.89	0.89
	739	2380002287210	EHV Site Specific (LLFC 739 & 125)		1.31	1.21	1.21
	737	2380002287229	EHV Site Specific (LLFC 737 & 119)		1.31	1.91	1.91
	740	2380002309867	EHV Site Specific (LLFC 740 & 126)	0.375	38.26	2.52	2.52
	745	2380002315851	EHV Site Specific (LLFC 745 & 127)		409.02	1.33	1.33
	892	2300000839364	EHV Site Specific (LLFC 892)	1.675	42.81	2.01	2.01
	893	2300000646962 2300000647006	EHV Site Specific (LLFC 893)		85.63	2.14	2.14
	746	2380002366660 2380002366670	EHV Site Specific (LLFC 746 & 511)	0.015	4,587.15	2.41	2.41
	747	2380002391996	EHV Site Specific (LLFC 747 & 512)	0.001	111.17	2.46	2.46
	748	2380002397394	EHV Site Specific (LLFC 748 & 513)		146.94	1.62	1.62
	749	2380002410098	EHV Site Specific (LLFC 749 & 514)		43.25	1.62	1.62
	901	2380002419106	EHV Site Specific (LLFC 901 & 515)	0.013	7.11	1.93	1.93
	902	TBC	EHV Site Specific (LLFC 902 & 516)		82.74	0.21	0.21
	894	2300000444962 2366531830013	EHV Site Specific (LLFC 894)	1.386	85.63	2.67	2.67

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	90	2394000039650	EHV Site Specific (LLFC 753 & 90)		85.19	0.05	0.05
	82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)		273.74	0.05	0.05
	76	2394000039641	EHV Site Specific (LLFC 755 & 76)		236.20	0.05	0.05
	75	2394000039679	EHV Site Specific (LLFC 756 & 75)		362.54	0.05	0.05
	95	2394000060226	EHV Site Specific (LLFC 757 & 95)	(0.014)	620.44	0.05	0.05
	800	TBC	EHV Site Specific (LLFC 804 & 800)	(0.025)	1,442.37	0.05	0.05
	60	2300000233736 2300000880975	EHV Site Specific - Generation Exempt (LLFC 760 & 60)				
	62	2300000457410	EHV Site Specific - Generation Exempt (LLFC 762 & 62)				
	80	2300000948904	EHV Site Specific - Generation Exempt (LLFC 763 & 80)				
	66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)				
	67	MSID_7020	EHV Site Specific (LLFC 767 & 67)	(0.002)	4,990.28	0.05	0.05
	128	2394000133317	EHV Site Specific (LLFC 769 & 128)			0.05	0.05
	92	2394000019176	EHV Site Specific (LLFC 771 & 92)			0.05	0.05
	65	2394000117991	EHV Site Specific (LLFC 773 & 65)			0.05	0.05
	74	2394000002925 2394100008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)				
	87	2394000024440	EHV Site Specific (LLFC 775 & 87)	(0.158)	961.32	0.05	0.05
	77	2300000233610	EHV Site Specific - Generation Exempt (LLFC 777 & 77)				
	78	2300000443825	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		653.23	0.05	0.05
	81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)				
	83	2300000974408 2394000113560 2394000135253	EHV Site Specific - Generation Exempt (LLFC 783 & 83)				
	84	2300001007256	EHV Site Specific - Generation Exempt (LLFC 784 & 84)				
	85	2394000011646	EHV Site Specific - Generation Exempt (LLFC 785 & 85)				
	86	2391100013704 2394000011502	EHV Site Specific - Generation Exempt (LLFC 786 & 86)				
	129	2394000134454 2394000134463	EHV Site Specific (LLFC 787 & 129)		190.66	0.05	0.05
	88	2394000027673	EHV Site Specific (LLFC 788 & 88)	(0.308)	2,502.12	0.05	0.05
	89	2394000043364	EHV Site Specific (LLFC 789 & 89)	(0.123)	2,535.74	0.05	0.05
	94	2394000056790	EHV Site Specific (LLFC 790 & 94)		1,428.93	0.05	0.05
	93	2394000058333	EHV Site Specific (LLFC 791 & 93)	(0.259)	163.50	0.05	0.05
	91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)		1,742.38	0.05	0.05
	97	2394000055174	EHV Site Specific (LLFC 794 & 97)		10,792.66	0.05	0.05
	98	2394000072198	EHV Site Specific (LLFC 796 & 98)		5,922.47	0.05	0.05
	34	2394000106234	EHV Site Specific (LLFC 837 & 34)		27.16	0.05	0.05
	68	2300000233898	EHV Site Specific (LLFC 839 & 68)	(0.021)	49.57	0.05	0.05
	71	2394000016040	EHV Site Specific (LLFC 852 & 71)		40.42	0.05	0.05
	72	2394000022132	EHV Site Specific (LLFC 854 & 72)		41.82	0.05	0.05
	36	2394000129436	EHV Site Specific (LLFC 870 & 36)	(0.028)	102.02	0.05	0.05
	32	2300000542819	EHV Site Specific (LLFC 874 & 32)		41.26	0.05	0.05
	69	2300000930377	EHV Site Specific (LLFC 882 & 69)	(2.088)	1,739.82	0.05	0.05
	70	2394000039590	EHV Site Specific (LLFC 889 & 70)	(0.067)	41.73	0.05	0.05
	99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)				
	61	2394000083311	EHV Site Specific (LLFC 798 & 61)		2,844.62	0.05	0.05
	51	2394000089457	EHV Site Specific (LLFC 799 & 51)	(0.129)	2,384.30	0.05	0.05
	52	2394000093027	EHV Site Specific (LLFC 821 & 52)		164.28	0.05	0.05
	53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)		325.79	0.05	0.05
	54	2394000097068	EHV Site Specific (LLFC 823 & 54)		164.41	0.05	0.05
	55	MSID_7275	EHV Site Specific (LLFC 824 & 55)		770.95	0.05	0.05
	57	2394000094590	EHV Site Specific (LLFC 826 & 57)		2,368.87	0.05	0.05
	58	2394000091952	EHV Site Specific (LLFC 827 & 58)	(0.040)	165.56	0.05	0.05
	59	2394000095804	EHV Site Specific (LLFC 768 & 59)		164.17	0.05	0.05
	105	2394000098805	EHV Site Specific (LLFC 801 & 105)		450.48	0.05	0.05
	96	2394000102693	EHV Site Specific (LLFC 792 & 96)		2,564.72	0.05	0.05
	109	2394000122500	EHV Site Specific (LLFC 806 & 109)		1,559.39	0.05	0.05
	107	2394000099074	EHV Site Specific (LLFC 803 & 107)		453.95	0.05	0.05
	108	2394000107353	EHV Site Specific (LLFC 805 & 108)		3,373.34	0.05	0.05
	56	2394000110630	EHV Site Specific (LLFC 825 & 56)		483.75	0.05	0.05
	106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	(0.134)	1,103.06	0.05	0.05
	63	2394000111660	EHV Site Specific (LLFC 807 & 63)		1,120.21	0.05	0.05
	110	2394000118693	EHV Site Specific (LLFC 810 & 110)	(0.040)	5,977.19	0.05	0.05
	31	2300000542785	EHV Site Specific (LLFC 885 & 31)	(0.003)	2,606.90	0.05	0.05
	43	2394000124303	EHV Site Specific (LLFC 829 & 43)		164.76	0.05	0.05
	44	2394000121845	EHV Site Specific (LLFC 830 & 44)	(0.385)	140.12	0.05	0.05
	45	TBC	EHV Site Specific (LLFC 726 & 45)		856.44	0.05	0.05
	46	2394000124400	EHV Site Specific (LLFC 727 & 46)		5,474.20	0.05	0.05
	47	2394000123434	EHV Site Specific (LLFC 728 & 47)		7,627.46	0.05	0.05
	48	2394000130956	EHV Site Specific (LLFC 729 & 48)		711.00	0.05	0.05
	49	2394000127847	EHV Site Specific (LLFC 730 & 49)		4,475.42	0.05	0.05
	64	2394000113278	EHV Site Specific (LLFC 809 & 64)		2,107.27	0.05	0.05
	50	2394000129589	EHV Site Specific (LLFC 731 & 50)		2,888.87	0.05	0.05

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 (Yorkshire) plc - Effective from 1 April 2019 - 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)
	114	2394000132642	EHV Site Specific (LLFC 732 & 114)		708.15	0.05	0.05
	115	2394000131490	EHV Site Specific (LLFC 733 & 115)		445.06	0.05	0.05
	116	2394000131338	EHV Site Specific (LLFC 734 & 116)	(0.331)	342.84	0.05	0.05
	117	2394000129250	EHV Site Specific (LLFC 735 & 117)		528.14	0.05	0.05
	118	2394000131329	EHV Site Specific (LLFC 736 & 118)	(0.003)	536.46	0.05	0.05
	124	2394000131773	EHV Site Specific (LLFC 738 & 124)		3,893.52	0.05	0.05
	125	2394000130965	EHV Site Specific (LLFC 739 & 125)		165.44	0.05	0.05
	119	2394000130974	EHV Site Specific (LLFC 737 & 119)		165.44	0.05	0.05
	126	2394000132094	EHV Site Specific (LLFC 740 & 126)	(0.483)	876.90	0.05	0.05
	127	2394000132252	EHV Site Specific (LLFC 745 & 127)		4,090.16	0.05	0.05
	511	2394000133831 2394000133840	EHV Site Specific (LLFC 746 & 511)	(0.331)	2,069.46	0.05	0.05
	512	2394000134668	EHV Site Specific (LLFC 747 & 512)	(0.047)	2,668.07	0.05	0.05
	513	2394000134914	EHV Site Specific (LLFC 748 & 513)	(0.002)	2,449.01	0.05	0.05
	514	2394000135129	EHV Site Specific (LLFC 749 & 514)	(0.001)	584.21	0.05	0.05
	515	2394000135305	EHV Site Specific (LLFC 901 & 515)	(0.034)	159.64	0.05	0.05
	516	TBC	EHV Site Specific (LLFC 902 & 516)		3,107.24	0.05	0.05

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2019 - Final LV and HV tariffs									
NHH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Unit charge 1 (NHH) p/kWh	Unit charge 2 (NHH) p/kWh	Fixed charge p/MPAN/day				
Notes:	Unit time periods are as specified in the SSC.								

HH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Red/black charge (HH) p/kWh	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
Notes:	Time periods								
	Unit charges in the red time band apply – between 16:00 and 19:30, Monday to Friday including bank holidays.								
	Unit charges in the amber time band apply – between 08:00 and 16:00; and between 19:30 and 22:00, Monday to Friday including bank holidays.								
	Unit charges in the green time band apply – between 00:00 and 08:00; and between 22:00 and 24:00, Monday to Friday including bank holidays, and between 00:00 and 24:00 Saturday and Sunday.								
	All times are UK clock-time.								

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2019 - 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 Unrestricted	150	1	1.108			3.45			
LDNO LV: Domestic Two Rate	151	2	1.260	0.644		3.45			
LDNO LV: Domestic Off Peak (related MPAN)	152	2	0.733						
LDNO LV: Small Non Domestic Unrestricted	153	3	1.281			3.70			
LDNO LV: Small Non Domestic Two Rate	154	4	1.373	0.684		3.70			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	155	4	0.759						
LDNO LV: LV Medium Non-Domestic	156	5-8	1.239	0.634		21.36			
LDNO LV: LV Network Domestic	148	0	2.887	1.047	0.628	3.45			
LDNO LV: LV Network Non-Domestic Non-CT	149	0	3.555	1.181	0.642	3.70			
LDNO LV: LV HH Metered	157	0	2.558	0.969	0.620	10.82	0.81	1.79	0.090
LDNO LV: NHH UMS category A	132	8	0.968						
LDNO LV: NHH UMS category B	133	1	1.032						
LDNO LV: NHH UMS category C	134	1	1.399						
LDNO LV: NHH UMS category D	135	1	0.935						
LDNO LV: LV UMS (Pseudo HH Metered)	170	0	6.458	0.999	0.626				
LDNO LV: LV Generation NHH or Aggregate HH	172	8&0	(0.511)						
LDNO LV: LV Generation Intermittent	173	0	(0.511)						0.114
LDNO LV: LV Generation Non-Intermittent	174	0	(2.852)	(0.575)	(0.058)				0.114
LDNO HV: Domestic Unrestricted	158	1	0.695			2.16			
LDNO HV: Domestic Two Rate	159	2	0.790	0.404		2.16			
LDNO HV: Domestic Off Peak (related MPAN)	160	2	0.460						
LDNO HV: Small Non Domestic Unrestricted	161	3	0.803			2.32			
LDNO HV: Small Non Domestic Two Rate	162	4	0.861	0.429		2.32			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	163	4	0.476						
LDNO HV: LV Medium Non-Domestic	164	5-8	0.778	0.398		13.40			
LDNO HV: LV Network Domestic	398	0	1.811	0.656	0.394	2.16			
LDNO HV: LV Network Non-Domestic Non-CT	399	0	2.230	0.741	0.403	2.32			
LDNO HV: LV HH Metered	165	0	1.605	0.608	0.389	6.78	0.51	1.12	0.057
LDNO HV: LV Sub HH Metered	166	0	2.034	0.867	0.633	11.29	1.04	1.67	0.059
LDNO HV: HV HH Metered	167	0	2.100	0.978	0.781	136.35	1.49	2.47	0.051
LDNO HV: NHH UMS category A	136	8	0.608						
LDNO HV: NHH UMS category B	137	1	0.647						
LDNO HV: NHH UMS category C	138	1	0.877						
LDNO HV: NHH UMS category D	139	1	0.587						
LDNO HV: LV UMS (Pseudo HH Metered)	171	0	4.051	0.626	0.393				
LDNO HV: LV Generation NHH or Aggregate HH	175	8&0	(0.511)						
LDNO HV: LV Sub Generation NHH	176	8	(0.454)						
LDNO HV: LV Generation Intermittent	177	0	(0.511)						0.114
LDNO HV: LV Generation Non-Intermittent	178	0	(2.852)	(0.575)	(0.058)				0.114
LDNO HV: LV Sub Generation Intermittent	179	0	(0.454)						0.108
LDNO HV: LV Sub Generation Non-Intermittent	180	0	(2.547)	(0.506)	(0.050)				0.108
LDNO HV: HV Generation Intermittent	181	0	(0.318)			0.00			0.087
LDNO HV: HV Generation Non-Intermittent	182	0	(1.859)	(0.334)	(0.033)	0.00			0.087
LDNO HVplus: Domestic Unrestricted	183	1	0.522			1.62			
LDNO HVplus: Domestic Two Rate	184	2	0.593	0.303		1.62			
LDNO HVplus: Domestic Off Peak (related MPAN)	185	2	0.345						
LDNO HVplus: Small Non Domestic Unrestricted	186	3	0.603			1.74			
LDNO HVplus: Small Non Domestic Two Rate	187	4	0.646	0.322		1.74			

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 HVplus: Small Non Domestic Off Peak (related MPAN)	188	4	0.357						
LDNO HVplus: LV Medium Non-Domestic	189	5-8	0.583	0.298		10.05			
LDNO HVplus: LV Sub Medium Non-Domestic	0	5-8	0.757	0.475		8.38			
LDNO HVplus: HV Medium Non-Domestic	0	5-8	0.857	0.578		155.64			
LDNO HVplus: LV Network Domestic	422	0	1.359	0.493	0.296	1.62			
LDNO HVplus: LV Network Non-Domestic Non-CT	423	0	1.673	0.556	0.302	1.74			
LDNO HVplus: LV HH Metered	190	0	1.204	0.456	0.292	5.09	0.38	0.84	0.042
LDNO HVplus: LV Sub HH Metered	191	0	1.509	0.643	0.469	8.38	0.77	1.24	0.044
LDNO HVplus: HV HH Metered	192	0	1.544	0.719	0.574	100.23	1.09	1.81	0.037
LDNO HVplus: NHH UMS category A	140	8	0.456						
LDNO HVplus: NHH UMS category B	141	1	0.486						
LDNO HVplus: NHH UMS category C	142	1	0.658						
LDNO HVplus: NHH UMS category D	143	1	0.440						
LDNO HVplus: LV UMS (Pseudo HH Metered)	194	0	3.040	0.470	0.295				
LDNO HVplus: LV Generation NHH or Aggregate HH	195	8	(0.239)						
LDNO HVplus: LV Sub Generation NHH	196	8	(0.264)						
LDNO HVplus: LV Generation Intermittent	197	0	(0.239)						0.053
LDNO HVplus: LV Generation Non-Intermittent	198	0	(1.336)	(0.269)	(0.027)				0.053
LDNO HVplus: LV Sub Generation Intermittent	199	0	(0.264)						0.063
LDNO HVplus: LV Sub Generation Non-Intermittent	315	0	(1.480)	(0.294)	(0.029)				0.063
LDNO HVplus: HV Generation Intermittent	316	0	(0.318)			98.94			0.087
LDNO HVplus: HV Generation Non-Intermittent	317	0	(1.859)	(0.334)	(0.033)	98.94			0.087
LDNO EHV: Domestic Unrestricted	318	1	0.361			1.12			
LDNO EHV: Domestic Two Rate	319	2	0.411	0.210		1.12			
LDNO EHV: Domestic Off Peak (related MPAN)	320	2	0.239						
LDNO EHV: Small Non Domestic Unrestricted	321	3	0.417			1.20			
LDNO EHV: Small Non Domestic Two Rate	322	4	0.447	0.223		1.20			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	323	4	0.247						
LDNO EHV: LV Medium Non-Domestic	324	5-8	0.404	0.207		6.96			
LDNO EHV: LV Sub Medium Non-Domestic	0	5-8	0.524	0.328		5.80			
LDNO EHV: HV Medium Non-Domestic	0	5-8	0.593	0.400		107.73			
LDNO EHV: LV Network Domestic	424	0	0.941	0.341	0.205	1.12			
LDNO EHV: LV Network Non-Domestic Non-CT	425	0	1.158	0.385	0.209	1.20			
LDNO EHV: LV HH Metered	325	0	0.833	0.316	0.202	3.52	0.26	0.58	0.029
LDNO EHV: LV Sub HH Metered	326	0	1.044	0.445	0.325	5.80	0.53	0.86	0.030
LDNO EHV: HV HH Metered	327	0	1.069	0.498	0.397	69.38	0.76	1.25	0.026
LDNO EHV: NHH UMS category A	144	8	0.316						
LDNO EHV: NHH UMS category B	145	1	0.336						
LDNO EHV: NHH UMS category C	146	1	0.456						
LDNO EHV: NHH UMS category D	147	1	0.305						
LDNO EHV: LV UMS (Pseudo HH Metered)	329	0	2.104	0.325	0.204				
LDNO EHV: LV Generation NHH or Aggregate HH	330	8	(0.166)						
LDNO EHV: LV Sub Generation NHH	331	8	(0.183)						
LDNO EHV: LV Generation Intermittent	332	0	(0.166)						0.037
LDNO EHV: LV Generation Non-Intermittent	333	0	(0.925)	(0.186)	(0.019)				0.037
LDNO EHV: LV Sub Generation Intermittent	334	0	(0.183)						0.043
LDNO EHV: LV Sub Generation Non-Intermittent	335	0	(1.024)	(0.203)	(0.020)				0.043
LDNO EHV: HV Generation Intermittent	336	0	(0.220)			68.49			0.060
LDNO EHV: HV Generation Non-Intermittent	337	0	(1.287)	(0.231)	(0.023)	68.49			0.060
LDNO 132kV/EHV: Domestic Unrestricted	338	1	0.243			0.76			
LDNO 132kV/EHV: Domestic Two Rate	339	2	0.276	0.141		0.76			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	340	2	0.161						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	341	3	0.281			0.81			
LDNO 132kV/EHV: Small Non Domestic Two Rate	342	4	0.301	0.150		0.81			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	343	4	0.166						
LDNO 132kV/EHV: LV Medium Non-Domestic	344	5-8	0.272	0.139		4.68			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic	0	5-8	0.353	0.221		3.90			
LDNO 132kV/EHV: HV Medium Non-Domestic	0	5-8	0.399	0.269		72.49			
LDNO 132kV/EHV: LV Network Domestic	426	0	0.633	0.229	0.138	0.76			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT	427	0	0.779	0.259	0.141	0.81			

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 132kV/EHV: LV HH Metered	345	0	0.561	0.212	0.136	2.37	0.18	0.39	0.020
LDNO 132kV/EHV: LV Sub HH Metered	346	0	0.703	0.300	0.219	3.90	0.36	0.58	0.021
LDNO 132kV/EHV: HV HH Metered	347	0	0.719	0.335	0.267	46.68	0.51	0.84	0.017
LDNO 132kV/EHV: NHH UMS category A	302	8	0.212						
LDNO 132kV/EHV: NHH UMS category B	303	1	0.226						
LDNO 132kV/EHV: NHH UMS category C	304	1	0.307						
LDNO 132kV/EHV: NHH UMS category D	305	1	0.205						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	349	0	1.416	0.219	0.137				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH	350	8	(0.111)						
LDNO 132kV/EHV: LV Sub Generation NHH	351	8	(0.123)						
LDNO 132kV/EHV: LV Generation Intermittent	352	0	(0.111)						0.025
LDNO 132kV/EHV: LV Generation Non-Intermittent	353	0	(0.622)	(0.125)	(0.013)				0.025
LDNO 132kV/EHV: LV Sub Generation Intermittent	354	0	(0.123)						0.029
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	355	0	(0.689)	(0.137)	(0.014)				0.029
LDNO 132kV/EHV: HV Generation Intermittent	356	0	(0.148)			46.08			0.041
LDNO 132kV/EHV: HV Generation Non-Intermittent	357	0	(0.866)	(0.156)	(0.015)	46.08			0.041
LDNO 132kV: Domestic Unrestricted	358	1	0.126			0.39			
LDNO 132kV: Domestic Two Rate	359	2	0.143	0.073		0.39			
LDNO 132kV: Domestic Off Peak (related MPAN)	360	2	0.083						
LDNO 132kV: Small Non Domestic Unrestricted	361	3	0.145			0.42			
LDNO 132kV: Small Non Domestic Two Rate	362	4	0.156	0.078		0.42			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	363	4	0.086						
LDNO 132kV: LV Medium Non-Domestic	364	5-8	0.141	0.072		2.42			
LDNO 132kV: LV Sub Medium Non-Domestic	0	5-8	0.182	0.114		2.02			
LDNO 132kV: HV Medium Non-Domestic	0	5-8	0.206	0.139		37.49			
LDNO 132kV: LV Network Domestic	428	0	0.327	0.119	0.071	0.39			
LDNO 132kV: LV Network Non-Domestic Non-CT	429	0	0.403	0.134	0.073	0.42			
LDNO 132kV: LV HH Metered	365	0	0.290	0.110	0.070	1.23	0.09	0.20	0.010
LDNO 132kV: LV Sub HH Metered	366	0	0.363	0.155	0.113	2.02	0.19	0.30	0.011
LDNO 132kV: HV HH Metered	367	0	0.372	0.173	0.138	24.15	0.26	0.44	0.009
LDNO 132kV: NHH UMS category A	306	8	0.110						
LDNO 132kV: NHH UMS category B	307	1	0.117						
LDNO 132kV: NHH UMS category C	308	1	0.159						
LDNO 132kV: NHH UMS category D	309	1	0.106						
LDNO 132kV: LV UMS (Pseudo HH Metered)	369	0	0.732	0.113	0.071				
LDNO 132kV: LV Generation NHH or Aggregate HH	370	8	(0.058)						
LDNO 132kV: LV Sub Generation NHH	371	8	(0.064)						
LDNO 132kV: LV Generation Intermittent	372	0	(0.058)						0.013
LDNO 132kV: LV Generation Non-Intermittent	373	0	(0.322)	(0.065)	(0.007)				0.013
LDNO 132kV: LV Sub Generation Intermittent	374	0	(0.064)						0.015
LDNO 132kV: LV Sub Generation Non-Intermittent	375	0	(0.356)	(0.071)	(0.007)				0.015
LDNO 132kV: HV Generation Intermittent	376	0	(0.077)			23.83			0.021
LDNO 132kV: HV Generation Non-Intermittent	377	0	(0.448)	(0.080)	(0.008)	23.83			0.021
LDNO 0000: Domestic Unrestricted	378	1	0.051			0.16			
LDNO 0000: Domestic Two Rate	379	2	0.058	0.030		0.16			
LDNO 0000: Domestic Off Peak (related MPAN)	380	2	0.034						
LDNO 0000: Small Non Domestic Unrestricted	381	3	0.059			0.17			
LDNO 0000: Small Non Domestic Two Rate	382	4	0.063	0.032		0.17			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	383	4	0.035						
LDNO 0000: LV Medium Non-Domestic	384	5-8	0.057	0.029		0.99			
LDNO 0000: LV Sub Medium Non-Domestic	0	5-8	0.074	0.047		0.82			
LDNO 0000: HV Medium Non-Domestic	0	5-8	0.084	0.057		15.29			
LDNO 0000: LV Network Domestic	430	0	0.134	0.048	0.029	0.16			
LDNO 0000: LV Network Non-Domestic Non-CT	431	0	0.164	0.055	0.030	0.17			
LDNO 0000: LV HH Metered	385	0	0.118	0.045	0.029	0.50	0.04	0.08	0.004
LDNO 0000: LV Sub HH Metered	386	0	0.148	0.063	0.046	0.82	0.08	0.12	0.004
LDNO 0000: HV HH Metered	387	0	0.152	0.071	0.056	9.85	0.11	0.18	0.004
LDNO 0000: NHH UMS category A	310	8	0.045						
LDNO 0000: NHH UMS category B	311	1	0.048						
LDNO 0000: NHH UMS category C	312	1	0.065						

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 0000: NHH UMS category D	313	1	0.043						
LDNO 0000: LV UMS (Pseudo HH Metered)	389	0	0.299	0.046	0.029				
LDNO 0000: LV Generation NHH or Aggregate HH	390	8	(0.024)						
LDNO 0000: LV Sub Generation NHH	391	8	(0.026)						
LDNO 0000: LV Generation Intermittent	392	0	(0.024)						0.005
LDNO 0000: LV Generation Non-Intermittent	393	0	(0.131)	(0.026)	(0.003)				0.005
LDNO 0000: LV Sub Generation Intermittent	394	0	(0.026)						0.006
LDNO 0000: LV Sub Generation Non-Intermittent	395	0	(0.145)	(0.029)	(0.003)				0.006
LDNO 0000: HV Generation Intermittent	396	0	(0.031)			9.72			0.009
LDNO 0000: HV Generation Non-Intermittent	397	0	(0.183)	(0.033)	(0.003)	9.72			0.009

Annex 5 – Schedule of Line Loss Factors

This table has intentionally been left blank. The line loss factors that are approved by the BSC Panel for the applicable year and consequently published on the Elexon website will take precedence and be used in Settlement. This annex will be re-published once these values are available.

Northern Powergrid (Yorkshire) plc - Illustrative LLFs for year beginning 1 April 2019				
Time periods	**Period 1**	**Period 2**	**Period 3**	**Period 4**
Monday – Friday (Apr – Oct)			00:00 – 07:00	07:00 – 24:00
Monday – Friday (Nov – Feb)	16:00 – 19:00	07:00 – 16:00 19:00 – 20:00	00:00 – 07:00	20:00 – 24:00
Monday – Friday (Mar)			00:00 – 07:00	07:00 – 24:00
Saturday and Sunday (All Year)			00:00 – 07:00	07:00 – 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	1.106	1.096	1.076	1.085	100, 111, 120, 20, 214, 22, 222, 224, 24, 240, 246, 279, 281, 290, 299, 813, 814, 815, 816, 817, 913, 999
Low Voltage Substation	1.044	1.043	1.046	1.043	223, 225, 23, 25, 30, 471
High Voltage Network	1.029	1.028	1.022	1.025	226, 228, 26, 28, 580, 581
High Voltage Substation	1.019	1.019	1.017	1.018	31, 32, 34, 35, 36, 37, 38, 39, 68, 69, 70, 71, 72, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 888, 889, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900
Greater than 22kV connected - generation	1.013	1.013	1.010	1.011	128, 129, 45, 514, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550
Greater than 22kV connected - demand	1.013	1.013	1.010	1.011	726, 749, 808, 902, 903, 904, 905, 906, 907, 908, 909, 910, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 758

EHV site specific LLFs					
Demand					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1	1.025	1.027	1.026	1.027	750
Site 2	1.005	1.005	1.004	1.004	751
Site 3	1.017	1.017	1.028	1.017	753
Site 4	1.012	1.013	1.031	1.013	754

Annex 5 – Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 5	1.009	1.009	1.020	1.011	755
Site 6	1.006	1.006	1.013	1.007	756
Site 7	1.003	1.002	1.006	1.009	757
Site 8	1.007	1.007	1.008	1.008	759
Site 9	1.005	1.005	1.004	1.004	760
Site 10	1.000	1.000	1.000	1.000	761
Site 11	1.011	1.011	1.008	1.009	762
Site 12	1.013	1.011	1.015	1.019	763
Site 13	1.000	1.000	1.000	1.000	764
Site 14	1.017	1.019	1.018	1.019	765
Site 15	1.000	1.000	1.011	1.011	766
Site 16	1.004	1.014	1.026	1.013	767
Site 17	1.028	1.037	1.039	1.037	769
Site 18	1.020	1.028	1.039	1.032	771
Site 19	1.011	1.016	1.019	1.015	772
Site 20	1.049	1.074	1.098	1.075	773
Site 21	1.020	1.019	1.014	1.016	774
Site 22	1.009	1.010	1.009	1.009	775
Site 23	1.019	1.013	1.008	1.010	777
Site 24	1.000	1.001	1.001	1.001	778
Site 25	1.000	1.000	1.000	1.000	780
Site 26	1.005	1.017	1.017	1.010	781
Site 27	1.014	1.013	1.013	1.013	782
Site 28	1.038	1.014	1.009	1.011	783
Site 29	1.096	1.105	1.074	1.080	784
Site 30	1.006	1.006	1.006	1.006	785
Site 31	1.007	1.006	1.007	1.006	786
Site 32	1.005	1.005	1.003	1.004	787
Site 33	1.037	1.031	1.022	1.027	788
Site 34	1.007	1.006	1.004	1.004	789
Site 35	1.048	1.045	1.035	1.037	790
Site 36	1.014	1.013	1.012	1.012	791
Site 37	1.889	1.385	1.484	1.408	793
Site 38	1.079	1.072	1.062	1.064	794
Site 39	1.024	1.011	1.081	1.017	795
Site 40	1.001	1.001	1.001	1.002	796
Site 41	1.015	1.015	1.013	1.014	797
Site 42	1.016	1.014	1.009	1.012	798
Site 43	1.013	1.013	1.010	1.011	799
Site 44	1.042	1.044	1.026	1.037	821
Site 45	1.054	1.054	1.037	1.043	822
Site 46	1.148	1.178	1.119	1.120	823
Site 47	0.993	0.991	0.988	0.989	824
Site 48	1.855	1.789	1.590	1.678	826
Site 49	1.009	1.008	1.014	1.013	827
Site 50	1.020	1.021	1.023	1.020	768
Site 51	1.074	1.076	1.066	1.067	801
Site 52	1.000	1.000	1.000	1.000	792

Annex 5 – Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 53	1.064	1.068	1.057	1.063	806
Site 54	1.003	1.003	1.002	1.002	803
Site 55	1.083	1.073	1.070	1.078	805
Site 56	1.031	1.016	1.010	1.012	825
Site 57	1.008	1.009	1.008	1.008	802
Site 58	1.000	1.000	1.000	1.000	807
Site 59	1.007	1.008	1.008	1.008	810
Site 60	1.088	1.080	1.069	1.075	829
Site 61	1.005	1.005	1.004	1.005	830
Site 62	1.027	1.023	1.019	1.022	727
Site 63	1.168	1.144	1.110	1.121	728
Site 64	1.026	1.022	1.018	1.021	729
Site 65	1.054	1.035	1.049	1.049	730
Site 66	1.118	1.107	1.080	1.091	809
Site 67	1.144	1.055	1.128	1.045	731
Site 68	1.056	1.056	1.065	1.073	732
Site 69	1.011	1.009	1.010	1.012	733
Site 70	1.007	1.007	1.007	1.007	734
Site 71	1.153	1.125	1.110	1.108	735
Site 72	1.013	1.013	1.010	1.011	736
Site 73	1.033	1.028	1.033	1.031	738
Site 74	1.005	1.005	1.004	1.004	739
Site 75	1.005	1.004	1.004	1.004	737
Site 76	1.018	1.018	1.017	1.016	740
Site 77	1.013	1.013	1.010	1.011	745
Site 78	1.013	1.013	1.010	1.011	746
Site 79	1.013	1.013	1.010	1.011	747
Site 80	1.013	1.013	1.010	1.011	748
Site 81	1.013	1.013	1.010	1.011	901

EHV site specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 1	1.086	1.090	1.074	1.094	90
Site 2	1.008	1.004	0.988	0.999	82
Site 3	0.995	0.994	0.983	0.992	76
Site 4	0.993	0.993	0.978	0.992	75
Site 5	1.002	1.001	1.000	1.001	95
Site 6	1.007	1.007	1.008	1.008	800
Site 7	1.000	1.000	1.000	1.000	60
Site 8	1.006	1.007	1.003	1.004	62
Site 9	1.004	1.004	1.001	1.003	80
Site 10	1.003	1.001	0.997	0.998	66
Site 11	0.996	0.991	0.978	0.993	67
Site 12	0.992	0.986	0.985	0.989	92
Site 13	0.995	0.989	0.988	0.992	65
Site 14	1.030	1.027	1.011	1.021	74
Site 15	1.002	1.003	0.998	0.999	87

Annex 5 – Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 16	1.012	1.011	1.006	1.008	77
Site 17	1.000	1.000	1.000	1.000	78
Site 18	0.988	0.987	0.982	0.988	81
Site 19	1.011	1.012	1.007	1.009	83
Site 20	0.996	1.003	1.006	1.002	84
Site 21	1.007	1.006	1.002	1.004	85
Site 22	1.004	1.003	1.000	1.000	86
Site 23	1.012	1.011	1.007	1.010	88
Site 24	1.006	1.006	1.003	1.004	89
Site 25	1.005	1.006	1.003	1.004	94
Site 26	1.014	1.013	1.007	1.010	93
Site 27	1.010	1.000	1.000	1.000	91
Site 28	1.015	1.011	1.006	1.008	97
Site 29	0.999	0.999	0.999	0.999	98
Site 30	1.017	1.015	1.000	1.015	99
Site 31	0.994	0.992	0.992	0.993	61
Site 32	1.013	1.013	1.010	1.011	51
Site 33	1.015	1.008	0.994	0.999	52
Site 34	1.013	1.007	0.993	0.998	53
Site 35	1.004	1.008	0.994	0.993	54
Site 36	0.993	0.991	0.988	0.989	55
Site 37	1.003	0.999	0.993	0.997	57
Site 38	1.000	1.000	0.997	0.998	58
Site 39	0.987	0.991	0.993	0.992	59
Site 40	1.020	1.021	1.017	1.017	105
Site 41	1.000	1.000	1.000	1.000	96
Site 42	1.010	1.010	1.007	1.008	109
Site 43	1.002	1.002	1.000	1.001	107
Site 44	1.004	0.999	0.988	0.995	108
Site 45	1.008	1.007	1.004	1.006	56
Site 46	1.006	1.007	1.007	1.006	106
Site 47	1.000	1.000	1.000	1.000	63
Site 48	0.975	0.977	0.974	0.973	110
Site 49	1.016	1.014	1.006	1.008	43
Site 50	1.003	1.003	0.999	1.001	44
Site 51	1.022	1.016	1.008	1.013	46
Site 52	1.011	0.996	0.989	0.990	47
Site 53	0.991	0.990	0.987	0.988	48
Site 54	0.997	0.995	0.992	0.995	49
Site 55	1.006	1.005	1.000	1.001	64
Site 56	0.974	0.996	0.979	0.996	50
Site 57	1.010	1.009	1.003	1.006	114
Site 58	0.995	0.995	0.991	0.992	115
Site 59	1.004	1.002	0.999	1.000	116
Site 60	1.018	1.011	1.007	1.007	117
Site 61	1.013	1.013	1.010	1.011	118
Site 62	0.995	0.994	0.993	0.993	124
Site 63	1.004	1.003	1.000	1.000	125

Annex 5 – Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 64	1.004	1.003	1.000	1.000	119
Site 65	1.013	1.013	1.010	1.011	126
Site 66	1.013	1.013	1.010	1.011	127
Site 67	1.013	1.013	1.010	1.011	511
Site 68	1.013	1.013	1.010	1.011	512
Site 69	1.013	1.013	1.010	1.011	513
Site 70	1.013	1.013	1.010	1.011	515

Annex 6 – Charges for New or Amended Designated EHV Properties

Nodal costs can be found in the spreadsheet that accompanies this statement.