



Northern Powergrid (Yorkshire) plc

Use of System Charging Statement

Notice of Charges

Effective from

1st April 2017

Version 2.0

Version Control

Version	Date	Description of version and any changes made
1.0	1 April 2017	This statement is based on version 0.3 of the common template developed during 2015.
1.0	1 April 2017	The form of this statement was approved by Ofgem on 17 February 2016. No changes to previous version.
2.0	1 April 2017	This statement has been revised to update Annex 5 based on the 2016 losses submission, and to add 2.30. to the 'Site-specific billed charges' section.

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

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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 charges¹ for the use of our Distribution System and to provide the schedule of adjustment factors² 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 Common Distribution Charging Methodology (CDCM) for Low-Voltage and High-Voltage (LV and HV) Designated Properties and the Extra-High Voltage Distribution Charging Methodology (EDCM) for Designated Extra-High Voltage (EHV) Properties.
- 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 premise 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:

www.northernpowergrid.com/document-library/charges

¹ Charges can be positive or negative.

² Also known as Loss Adjustment Factors or Line Loss Factors

Validity period

- 1.8. This charging statement is valid for services provided between the effective from date and the effective to date stated on the front of the statement. The statement remains valid between those dates until updated by a revised version.
- 1.9. When using this charging statement, care should be taken to ensure that the 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:

Charges Manager

Northern Powergrid

98 Aketon Road

Castleford

WF10 5DS

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 or aggregated Half-Hourly (HH) metered premises and the 'Site-specific' approach is used for HH metered or pseudo HH unmetered premises.
- 2.3. Typically NHH metered are domestic and small businesses, HH metered are larger businesses and unmetered premises are normally streetlights.

Supercustomer billing and payment

- 2.4. Supercustomer billing and payment applies to Metering Points 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 Metering Point Administration Number (MPAN), and the units consumed within the time periods specified in this statement. All LLFCs are assigned at our sole discretion.

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 metering system is:
 - Measurement Class A or B, and settled on Profile Classes (PC) 1 through to 8; or
 - Measurement Class 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 2001³ and where operated in accordance with Balancing and Settlement Code (BSC) procedure 520⁴.
- 2.11. Measurement Class F and G charges apply to Exit/Entry Points where HH aggregated metering data is used for Settlement.
- 2.12. Identification of the appropriate charge can be made by cross reference to the LLFC.
- 2.13. Valid settlement PC/Standard Settlement Code (SSC)/Meter Timeswitch Code (MTC) combinations for these LLFCs where the Metering System is Measurement Class A and B are detailed in Market Domain Data (MDD).
- 2.14. 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 TPR combination.
- 2.15. The time periods for unit charges where the Metering System is Measurement Class A and 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 statement⁵.
- 2.16. The time periods for unit charges where the Metering System is Measurement Class F and G are set out in the table 'Time Bands for Half Hourly Metered Properties' in Annex 1.
- 2.17. The 'Domestic Off-Peak' and 'Small Non-Domestic Off-Peak' charges are supplementary to either an unrestricted or a two-rate charge.

Site-specific billing and payment

- 2.18. Site-specific billing and payment applies to Measurement Class C, D and E metering points settled as HH metered. The site-specific billing and payment approach to Use of System (UoS) billing makes use of HH metering data at premise level received through Settlement.

³ The Electricity (Unmetered Supply) Regulations 2001 available from <http://www.legislation.gov.uk/ukxi/2001/3263/made>

⁴ Balancing and Settlement Code Procedures on unmetered supplies are available from <https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/>

⁵ Northern Powergrid (Yorkshire) - Schedule of Charges and Other Tables 2017-18

- 2.19. Invoices are calculated on a periodic basis and sent to each User, for whom we transport electricity through its 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.
- 2.20. The charges are applied on the basis of the LLFC assigned to the MPAN (or the Meter System Identifier (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.21. All LLFCs are assigned at our sole discretion. Where an incorrectly applied LLFC is identified, we may at our sole discretion apply the correct LLFC and/or charges. 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.

Site-specific billed charges

- 2.22. Site-specific billed charges may include the following components:
- a fixed charge, pence/MPAN/day or pence/MSID/day;
 - a capacity charge, pence/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/kVAh, for each unit in excess of the reactive charge threshold.
- 2.23. Users who wish to supply electricity to customers whose metering system is Measurement Class C, D, E or CVA will be allocated the relevant charge structure dependent upon the voltage and location of the metering point.
- 2.24. Measurement Class C, E or CVA charges apply to Exit/Entry points where HH metering, or an equivalent meter, is used for Settlement purposes.
- 2.25. Measurement class D charges apply to Exit points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001⁶ and where operated in accordance with BSC procedure 520⁷.
- 2.26. Fixed charges are generally levied on a pence per MPAN/MSID basis. Where two or more HH MPANs/MSIDs are located at the same point of connection (as identified in

⁶ The Electricity (Unmetered Supply) Regulations 2001 available from <http://www.legislation.gov.uk/uksi/2001/3263/made>

⁷ Balancing and Settlement Code Procedures on unmetered supplies and available from <https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/>

- the connection agreement), with the same LLFC, and registered to the same supplier, only one daily fixed charge will be applied.
- 2.27. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
 - 2.28. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
 - 2.29. 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.
 - 2.30. Due to the seasonal nature of charges for Unmetered Supplies, changes between Measurement Class 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

- 2.31. 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.
- 2.32. 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

- 2.33. The time periods for the application of unit charges to connections 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

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

Chargeable capacity

- 2.35. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.36. The MIC/MEC will be agreed with us at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time of connection or later) no reduction in MIC/MEC will be allowed for a 12 month period.
- 2.37. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where MIC/MEC is reduced, the new lower level will be agreed with reference to the level of the customer's maximum demand. The new MIC/MEC will be applied from the start of the next billing period after the date that the request was received. It should be

noted that, where a new lower level is agreed, the original capacity may not be available in the future without the need for network reinforcement and associated charges.

- 2.38. In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC 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

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

Demand exceeded capacity

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

- 2.40. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.
- 2.41. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Generation exceeded capacity

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

- 2.42. Only reactive import and reactive export values occurring at times of active export are used in the calculation. 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.
- 2.43. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Standby capacity for additional security on site

- 2.44. Where standby capacity charges are applied, the charge will be set at the same rate as that applied to normal MIC. Where, at the customer's request, for additional security of supplies requiring sterilisation of capacity at two different sources of supply, we reserve the right to charge for the capacity held at each source.

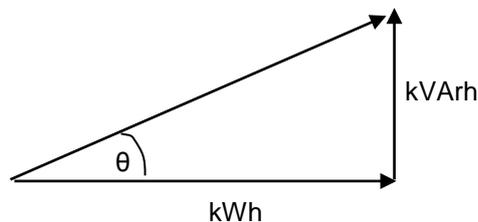
Minimum capacity levels

- 2.45. There is no minimum capacity threshold.

Application of charges for excess reactive power

- 2.46. When an individual HH metered MPAN's reactive power (measured in kVArh) at LV and HV Designated Properties exceeds 33% of 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.
- 2.47. Power Factor is calculated as follows:

$\cos \theta = \text{Power Factor}$



- 2.48. The chargeable reactive power is calculated as follows:

Demand chargeable reactive power

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVAh)

RE = Reactive export (kVAh)

- 2.49. 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.
- 2.50. The square root calculation will be to two decimal places.
- 2.51. This calculation is completed for every half hour and the values summated over the billing period.

Generation chargeable reactive power

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVAh)

RE = Reactive export (kVAh)

- 2.52. 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.
- 2.53. The square root calculation will be to two decimal places.
- 2.54. This calculation is completed for every half hour and the values summated over the billing period.

Incorrectly allocated charges

- 2.55. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection and metering information. We are responsible for deciding the voltage of connection while the Supplier determines and provides the metering information.
- 2.56. Generally, the voltage of connection is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the

- connected customer. This is normally established when the MPAN/MSID is created and will include information about whether the MPAN/MSID is for import or export purposes. Where an MPAN/MSID is used for export purposes the type of generation (intermittent or non-intermittent) will also be determined.
- 2.57. The Supplier provides us with metering information which enables us to allocate charges where there is more than one charge per voltage level. This metering data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When this happens we will change the allocation of charges accordingly.
- 2.58. Where it has been identified that a LLFC/charge is likely to be incorrectly allocated due to the wrong voltage of connection, incorrect import/export details or an incorrectly noted metering location then a correction request should be made to us. Requests from persons other than the current Supplier must be accompanied by a Letter of Authority from the Customer; the existing Supplier must also acknowledge that they are aware that a correction request has been made. Any request must be supported by an explanation of why it is believed that the current charge is wrongly applied along with supporting information, including, where appropriate photographs of metering positions or system diagrams. Any request to correct the current LLFC/charge that also includes a request to backdate the correction must include justification as to why it is considered appropriate to backdate the change.
- 2.59. If it has been identified that a charge has been incorrectly allocated due to the metering data then a correction request should be made to the Supplier.
- 2.60. Where we agree that an MPAN/MSID has been assigned incorrectly to the wrong voltage level then we will correct it by allocating the correct set of charges for that voltage level. Any adjustment for incorrectly applied charges will be as follows:
- Any credit or additional charge will be issued to the Supplier(s) who was effective during the period of the change.
 - The correction will be applied from the date of the request, back to 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; whichever is the shorter.
- 2.61. Should we reject the request, a justification will be provided to the requesting Party.
- 2.62. We shall not unreasonably withhold or delay any agreement to correct the charges applied and would expect to reach agreement within three months from the date of request.

Generation charges for pre-2005 Designated EHV Properties

2.63. 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 1st 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 1st 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.

2.64. 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

2.65. Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or the Distribution Connection and Use of System Agreement (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.

2.66. The metering data shall identify the amount consumed and/or produced 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.

2.67. 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 (as agreed with us). The data shall be e-mailed to:

Duos.billing@northernpowergrid.com

- 2.68. 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

- 2.69. We do not operate networks outside our Distribution Service Area.

Licensed distributor network operator charges

- 2.70. Licenced Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.
- 2.71. 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 same charge elements will apply as those that match the LDNO's end customer charges. The relevant charge structures are set out in Annex 4.
- 2.72. Where an 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 TPR combination.
- 2.73. 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.
- 2.74. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply. <http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx>

Licence exempt distribution networks

- 2.75. The Electricity and Gas (Internal Market) Regulations 2011 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.
- 2.76. 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.

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

Full settlement metering

2.78. 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 exempt distribution network.

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

Difference metering

2.80. 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 premise. Under this approach the customers requiring third party access on the exempt distribution network will have their own MPAN and must have a HH Metering System.

2.81. Unless agreed otherwise, our UoS charges will be applied using gross settlement.

Gross settlement

2.82. Where one of our MPANs (prefix 23) is embedded within a licence exempt distribution network connected to our Distribution Systems, 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.

2.83. 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".
- the text file and the title of the email shall contain the metering reference specified by us in place of the Settlement MPAN, i.e. a dummy alphanumeric reference to enable the relating of the gross metered data to a given boundary MPAN; and

- 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".

2.84. 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 the distribution of electricity for UoS 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 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 lost⁸ as it is distributed through the network. This adjustment does not affect distribution charges but is used in energy settlement to take metered consumption to a notional grid supply point so that suppliers' purchases take account of the energy lost on the Distribution System.
- 4.2. We are responsible for calculating the Line Loss Factors (LLFs) and providing these to Elexon. Elexon is the company that manages the BSC. The code covers the governance and rules for the balancing and settlement arrangements.
- 4.3. LLFs are used to adjust the metering system volumes to take account of losses on the distribution network.

Calculation of line loss factors

- 4.4. LLFs are calculated in accordance with BSC procedure 128. BSCP 128 sets out the procedures and principles by 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:
[\(http://www.elexon.co.uk/reference/technicaloperations/losses/\)](http://www.elexon.co.uk/reference/technicaloperations/losses/) contains more information on LLFs. This page also has links to BSCP 128 and to our LLF methodology.

⁸ 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.

Publication of Line loss factors

- 4.8. The LLFs used in Settlement are published on the Elexon portal website, www.elexonportal.co.uk. The website contains the LLFs in standard industry data formats and in a summary form. A user guide with details on registering and using the portal is also available.
- 4.9. The 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. Illustrative LLFs based on the latest LLFs are provided in Annex 5 of this statement. These illustrative LLFs are provided with reference to the metered voltage or associated LLFC for generic LLFs and by reference to the LLFCs for site specific LLFs. Each LLF is applicable to a defined time period.
- 4.11. As this charging statement is published a complete year before the LLFs have been published it is important to note that the LLFs provided in this statement are for illustration only and may be revised during the BSCP128 process.

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 in an addendum to that statement as and when necessary.
- 5.4. The form of the addendum is detailed in Annex 6 of this statement.
- 5.5. The addendum will be sent to relevant DCUSA parties and published as a revised "Schedule of Charges and other tables" spreadsheet on our website. The addendum will include charge information that under enduring circumstances would be found in Annex 2 and line loss factors that would normally be found in Annex 5.
- 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 relevant DCUSA 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 use of system 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 use of system 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 use of system 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:

Connection Record Maintenance

Manor House

Station Road

New Penshaw

Houghton-le-Spring

DH4 7LA

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

6. Electricity distribution rebates

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

7. Accounting and administration services

- 7.1. We reserve the right to impose payment default remedies. The remedies are as set out in DCUSA where applicable or else as detailed in the following paragraph.
- 7.2. If any invoices that are not subject to a valid dispute remain unpaid on the due date, late payment interest (calculated at base rate plus 8%) and administration charges may be imposed.
- 7.3. Our administration charges are detailed in the following table. These charges are set at a level which is in line with the Late Payment of Commercial Debts Act;

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

8. Charges for electrical plant provided ancillary to the grant of Use of System

8.1. Northern Powergrid has no charges applicable to this section.

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.
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 whom, 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 13A 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.

Term	Definition																																																												
Distributor IDs	<p>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.</p> <table border="1" data-bbox="643 405 1382 1480"> <thead> <tr> <th data-bbox="649 405 715 465">ID</th> <th data-bbox="715 405 1002 465">Distribution Service Area</th> <th data-bbox="1002 405 1375 465">Company</th> </tr> </thead> <tbody> <tr> <td data-bbox="649 465 715 501">10</td> <td data-bbox="715 465 1002 501">East of England</td> <td data-bbox="1002 465 1375 501">UK Power Networks</td> </tr> <tr> <td data-bbox="649 501 715 537">11</td> <td data-bbox="715 501 1002 537">East Midlands</td> <td data-bbox="1002 501 1375 537">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 537 715 573">12</td> <td data-bbox="715 537 1002 573">London</td> <td data-bbox="1002 537 1375 573">UK Power Networks</td> </tr> <tr> <td data-bbox="649 573 715 654">13</td> <td data-bbox="715 573 1002 654">Merseyside and North Wales</td> <td data-bbox="1002 573 1375 654">Scottish Power</td> </tr> <tr> <td data-bbox="649 654 715 689">14</td> <td data-bbox="715 654 1002 689">Midlands</td> <td data-bbox="1002 654 1375 689">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 689 715 725">15</td> <td data-bbox="715 689 1002 725">Northern</td> <td data-bbox="1002 689 1375 725">Northern Powergrid</td> </tr> <tr> <td data-bbox="649 725 715 761">16</td> <td data-bbox="715 725 1002 761">North Western</td> <td data-bbox="1002 725 1375 761">Electricity North West</td> </tr> <tr> <td data-bbox="649 761 715 904">17</td> <td data-bbox="715 761 1002 904">Scottish Hydro Electric (and embedded networks in other areas)</td> <td data-bbox="1002 761 1375 904">Scottish Hydro Electric Power Distribution plc</td> </tr> <tr> <td data-bbox="649 904 715 940">18</td> <td data-bbox="715 904 1002 940">South Scotland</td> <td data-bbox="1002 904 1375 940">Scottish Power</td> </tr> <tr> <td data-bbox="649 940 715 976">19</td> <td data-bbox="715 940 1002 976">South East England</td> <td data-bbox="1002 940 1375 976">UK Power Networks</td> </tr> <tr> <td data-bbox="649 976 715 1111">20</td> <td data-bbox="715 976 1002 1111">Southern Electric (and embedded networks in other areas)</td> <td data-bbox="1002 976 1375 1111">Southern Electric Power Distribution plc</td> </tr> <tr> <td data-bbox="649 1111 715 1146">21</td> <td data-bbox="715 1111 1002 1146">South Wales</td> <td data-bbox="1002 1111 1375 1146">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 1146 715 1182">22</td> <td data-bbox="715 1146 1002 1182">South Western</td> <td data-bbox="1002 1146 1375 1182">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 1182 715 1218">23</td> <td data-bbox="715 1182 1002 1218">Yorkshire</td> <td data-bbox="1002 1182 1375 1218">Northern Powergrid</td> </tr> <tr> <td data-bbox="649 1218 715 1299">24</td> <td data-bbox="715 1218 1002 1299">All</td> <td data-bbox="1002 1218 1375 1299">Independent Power Networks</td> </tr> <tr> <td data-bbox="649 1299 715 1335">25</td> <td data-bbox="715 1299 1002 1335">All</td> <td data-bbox="1002 1299 1375 1335">ESP Electricity</td> </tr> <tr> <td data-bbox="649 1335 715 1370">26</td> <td data-bbox="715 1335 1002 1370">All</td> <td data-bbox="1002 1335 1375 1370">Energetics Electricity Ltd</td> </tr> <tr> <td data-bbox="649 1370 715 1451">27</td> <td data-bbox="715 1370 1002 1451">All</td> <td data-bbox="1002 1370 1375 1451">The Electricity Network Company Ltd</td> </tr> <tr> <td data-bbox="649 1451 715 1487">29</td> <td data-bbox="715 1451 1002 1487">All</td> <td data-bbox="1002 1451 1375 1487">Harlaxton Energy Networks</td> </tr> </tbody> </table>	ID	Distribution Service Area	Company	10	East of England	UK Power Networks	11	East Midlands	Western Power Distribution	12	London	UK Power Networks	13	Merseyside and North Wales	Scottish Power	14	Midlands	Western Power Distribution	15	Northern	Northern Powergrid	16	North Western	Electricity North West	17	Scottish Hydro Electric (and embedded networks in other areas)	Scottish Hydro Electric Power Distribution plc	18	South Scotland	Scottish Power	19	South East England	UK Power Networks	20	Southern Electric (and embedded networks in other areas)	Southern Electric Power Distribution plc	21	South Wales	Western Power Distribution	22	South Western	Western Power Distribution	23	Yorkshire	Northern Powergrid	24	All	Independent Power Networks	25	All	ESP Electricity	26	All	Energetics Electricity Ltd	27	All	The Electricity Network Company Ltd	29	All	Harlaxton Energy Networks
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Distribution Network Operator (DNO)	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.																																																												
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.																																																												

Term	Definition
Distribution System	<p>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:</p> <ul style="list-style-type: none"> • Grid Supply Points or generation sets or other entry points <p>to the points of delivery to:</p> <ul style="list-style-type: none"> • 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) <p>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.</p>
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 network which is embedded within another distribution network.
Embedded network	An electricity Distribution System operated by an LDNO and embedded within another distribution network.
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.
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 amperes.
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 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	$\frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data used by all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.
Maximum Export Capacity (MEC)	The MEC of apparent power expressed in kVA that has been agreed can flow through the entry point to the Distribution System from the Customer's installation as specified in the connection agreement.
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.

Term	Definition
Measurement Class	<p>A classification of metering systems used in the BSC which indicates how consumption is measured, i.e.:</p> <ul style="list-style-type: none"> • 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, and from 5 November 2015, with current transformer metering; • Measurement class F - half hourly metering equipment at below 100kW premises with current transformer 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)	<p>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.</p>
Metering Point	<p>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'.</p>
Meter Point Administration Data (MPAD)	<p>The unique reference relating to the metering point under the MRA</p>
Metering Point Administration Number (MPAN)	<p>A number (forming part of the MPAD) relating to a Metering Point under the MRA.</p>
Metering System	<p>Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.</p>
Metering System Identifier (MSID)	<p>MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.</p>
Master Registration Agreement (MRA)	<p>The MRA is an Agreement that sets out terms for the provision of Metering Point Administration Services (MPAS) Registrations, and procedures in relation to the Change of Supplier to any premise/metering point.</p>

Term	Definition
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).
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 license for electricity supplied to and/or exported from a metering point.
Supplier Volume Allocation (SVA)	As defined in the BSC.
Time Pattern Regime (TPR)	The pattern of switching behaviour through time that one or more meter registers follow.
Unmetered Supplies	Exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001 and where operated in accordance with BSC procedure 520 ⁹ .
Use of System Charges	Charges which are applicable to those parties which use the Distribution Network.

⁹ Balancing and Settlement Code Procedures are available from <http://www.elxon.co.uk/pages/bscps.aspx>

Term	Definition
User	Someone that has a use of system agreement with the DNO e.g. a supplier, generator or other DNO.

Appendix 2 - Guidance notes¹⁰

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 property 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.

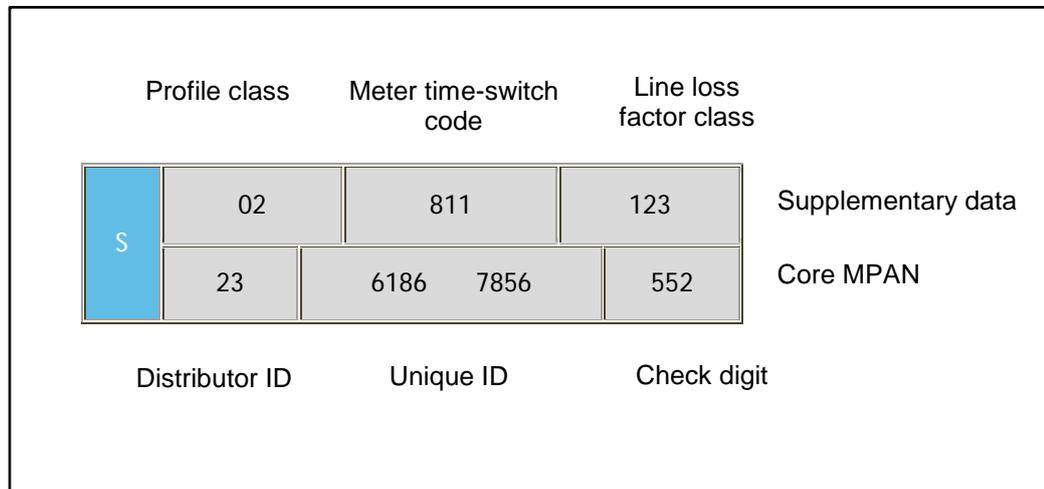
Meter point administration

- 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 MPAN is a 13 digit number and forms part of the 21 digit MPAD, preceded by an 'S'. The MPAD 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 premise.

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

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

Full MPAD diagram



- 1.8. Generally, you will only need to know the Distributor ID and line loss factor class to identify the distribution charges for your premise. 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 and 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. 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 (kVArh) is the difference between working power (active power measured in kW) and total power consumed (apparent power measured in kVA). Essentially it is a measure of how efficiently electrical power is transported through an electrical installation or a Distribution System.
- 1.19. Power flowing with a power factor of unity results in the most efficient loading of the Distribution System. Power flowing with a power factor of less than 0.95 results in much higher losses in the Distribution System, a need to potentially provide higher capacity electrical equipment and consequently a higher bill for you the consumer. A comparatively small improvement in power factor can bring about a significant reduction in losses since losses are proportional to the square of the current.
- 1.20. Different types of electrical equipment require some 'reactive power' in addition to 'active power' in order to work effectively. Electric motors, transformers and fluorescent lighting, for example, may produce poor power factors due to the nature of their inductive load. However, if good design practice is applied then the poor power factor of appliances can be corrected as near as possible to source. Alternatively poor power factor can be corrected centrally near to the meter.
- 1.21. There are many advantages that can be achieved by correcting poor power factor. These include: reduced energy bills through lower reactive charges, lower capacity charges and reduced power consumption and reduced voltage drop in long cable runs.

Site-specific EDCM charges

- 1.22. A site classified as a Designated EHV Property is subject to a locational based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use two approved approaches: LRIC and Forward Cost Pricing (FCP) and 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 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 payment.
- 1.24. The charges under the EDCM comprise of the following individual components:

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

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

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

The LRIC cost is locational and reflects our assessment of future network reinforcement necessary at 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 on 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 2017 - 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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day	Closed LLFCs
Domestic Unrestricted	100	1	1.837			5.11				999
Domestic Two Rate	120	2	2.261	0.109		5.11				
Domestic Off Peak (related MPAN)	111	2	0.366							
Small Non Domestic Unrestricted	240	3	2.233			5.45				
Small Non Domestic Two Rate	246	4	2.578	0.193		5.45				
Small Non Domestic Off Peak (related MPAN)	214	4	0.488							
LV Medium Non-Domestic	290	5-8	2.065	0.107		41.80				
LV Sub Medium Non-Domestic		5-8	1.288	0.064		15.02				
HV Medium Non-Domestic	580	5-8	1.096	0.029		158.63				
LV Network Domestic	279	0	9.718	0.995	0.081	5.11				
LV Network Non-Domestic Non-CT	299	0	12.273	1.257	0.102	5.45				
LV HH Metered	281	0	8.865	0.860	0.068	14.71	1.49	0.322	1.49	
LV Sub HH Metered	471	0	7.605	0.662	0.050	15.02	1.79	0.241	1.79	
HV HH Metered	581	0	6.253	0.476	0.033	158.63	2.03	0.188	2.03	
NHH UMS category A	814	8	1.177							
NHH UMS category B	815	1	1.598							
NHH UMS category C	816	1	2.969							
NHH UMS category D	817	1	0.904							
LV UMS (Pseudo HH Metered)	813 & 913	0	23.315	0.892	0.074					
LV Generation NHH or Aggregate HH	20	8&0	(0.538)							
LV Sub Generation NHH	30	8	(0.473)							
LV Generation Intermittent	22	0	(0.538)					0.131		
LV Generation Non-Intermittent	24	0	(3.172)	(0.576)	(0.049)			0.131		
LV Sub Generation Intermittent	23	0	(0.473)					0.123		
LV Sub Generation Non-Intermittent	25	0	(2.810)	(0.503)	(0.042)			0.123		
HV Generation Intermittent	26	0	(0.340)			60.11		0.099		
HV Generation Non-Intermittent	28	0	(2.092)	(0.345)	(0.026)	60.11		0.099		

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 2017 - 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)	0.572		7.98	7.98				
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038				EHV Site Specific (LLFC 751)	0.040	3,347.81	2.04	2.04				
	753	235655555010		90	2394000039650	EHV Site Specific (LLFC 753 & 90)	0.841	4,114.53	2.80	2.80		68.58	0.05	0.05
	754	2356555554017 2380002015807		82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)	0.340	4,420.65	1.80	1.80		221.03	0.05	0.05
	755	2316521850010		76	2394000039641	EHV Site Specific (LLFC 755 & 76)	0.098	1,901.41	2.09	2.09		190.14	0.05	0.05
	756	2346540436013		75	2394000039679	EHV Site Specific (LLFC 756 & 75)	0.015	3,891.26	1.46	1.46		291.84	0.05	0.05
	757	2336566756217		95	2394000060226	EHV Site Specific (LLFC 757 & 95)		603.26	1.13	1.13	(0.015)	1,269.99	0.05	0.05
	758	TBC				EHV Site Specific (LLFC 758)		4,448.67	0.75	0.75				
	759	MSID_0645				EHV Site Specific (LLFC 759)	0.038	8,643.88	2.06	2.06				
	760	2300000880966 2376509001013		60	2300000233736 2300000880975	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		781.61	1.27	1.27				
	761	2300000526686 2336518071011				EHV Site Specific (LLFC 761)	0.003	270.90	0.90	0.90				
	762	2300000457400		62	2300000457410	EHV Site Specific - Generation Exempt (LLFC 762 & 62)		22.32	1.44	1.44				
	763	2300000775853 2376509000010		80	2300000948904 2300000948913	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.018	116.57	0.93	0.93				
	764	2300000233959 2300000233968 2300000233977				EHV Site Specific (LLFC 764)	0.016	2,852.37	0.80	0.80				
	765	2300000457084 2390000010840 2390000010859				EHV Site Specific (LLFC 765)	0.819	2,888.98	2.11	2.11				
	766	2376508030013 2376508030022		66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		66.85	1.12	1.12				
	767	MSID_7020		67	MSID_7021	EHV Site Specific - Generation Exempt (LLFC 767 & 67)		100.46	1.10	1.10				
	769	2346526241119				EHV Site Specific (LLFC 769)		4,448.67	2.03	2.03				
	770	2366591365115				EHV Site Specific (LLFC 770)		4,448.67	2.43	2.43				
	771	2366591376117		92	2394000019176	EHV Site Specific (LLFC 771 & 92)		1,069.91	0.77	0.77		3,378.77	0.05	0.05
	772	2366591373116				EHV Site Specific (LLFC 772)		4,448.67	2.04	2.04				
	773	2366591486111 2380002104680		65	2394000117991	EHV Site Specific (LLFC 773 & 65)		517.29	1.09	1.09		3,931.39	0.05	0.05
	774	2326522910011 2326522910020		74	2394000002925 2394100008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.073	64.60	1.16	1.16				
	775	2380000531989		87	2394000024440	EHV Site Specific (LLFC 775 & 87)	0.078	201.19	0.96	0.96	(0.262)	770.02	0.05	0.05
	777	2300000233596		77	2300000233610	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.428	2.58	1.16	1.16				
	778	2300000443816		78	2300000443825	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		6.86	2.10	2.10		534.24	0.05	0.05
	780	2380000825051				EHV Site Specific (LLFC 780)	0.004	656.91	0.54	0.54				
	781	2300000790540		81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)	0.001	63.97	1.22	1.22				
	782	2300001016288 2300001016297				EHV Site Specific (LLFC 782)	0.613	270.90	2.74	2.74				
	783	2300000974268		83	2300000974408 2394000113560	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.062	3.27	1.34	1.34				
	784	2300001007247		84	2300001007256	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.029	0.40	1.58	1.58				
	785	2380000151720		85	2394000011646	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.076	1.15	1.01	1.01				
	786	2380000148115		86	2391100013704 2394000011502	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.77	0.81	0.81				
	787	2380000123421 2380000123430				EHV Site Specific (LLFC 787)		749.30	2.36	2.36				
	788	2380000654644		88	2394000027673	EHV Site Specific (LLFC 788 & 88)	0.375	78.12	1.49	1.49	(0.797)	2,083.32	0.05	0.05
	789	2380000118812		89	2394000043364	EHV Site Specific (LLFC 789 & 89)		50.14	1.34	1.34	(0.209)	2,111.30	0.05	0.05
	790	23800001476585		94	2394000056790	EHV Site Specific (LLFC 790 & 94)	0.034	5.94	1.33	1.33		400.41	0.05	0.05

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

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
	791	2380001494334		93	2394000058333	EHV Site Specific (LLFC 791 & 93)	0.060	2.64	1.22	1.22	(0.183)	132.81	0.05	0.05
	793	2380001252829 2380001252838 2380001767827		91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)	0.137	61.58	1.13	1.13		1,046.52	0.05	0.05
	794	2380001458911		97	2394000055174	EHV Site Specific (LLFC 794 & 97)	0.548	285.19	1.16	1.16		9,006.11	0.05	0.05
	795	2380001532167 2380001532176				EHV Site Specific (LLFC 795)	0.077	1,032.02	1.09	1.09				
	796	2380001635401		98	2394000072198	EHV Site Specific (LLFC 796 & 98)		48.36	0.54	0.54		4,815.74	0.05	0.05
	831	2316530305110 2316530305129				EHV Site Specific (LLFC 831)	3.744	69.56	7.59	7.59				
	832	2316541311014		73	2300000233587	EHV Site Specific (LLFC 832 & 73)	1.612	30.67	3.03	3.03	(1.592)	4.12	0.05	0.05
	833	2326511015014 2326511015023				EHV Site Specific (LLFC 833)	4.264	69.56	4.13	4.13				
	834	2300000456903 2300000516605 2326531140128				EHV Site Specific (LLFC 834)		104.35	3.61	3.61				
	835	2300000473625 2336505790019				EHV Site Specific (LLFC 835)		69.56	8.25	8.25				
	836	2300000473616 2336506255013				EHV Site Specific (LLFC 836)		69.56	6.29	6.29				
	837	2300000473634 2336526022010		34	2394000106234	EHV Site Specific (LLFC 837 & 34)	0.262	47.50	2.20	2.20		22.07	0.05	0.05
	838	2300000584925 2336559992019				EHV Site Specific (LLFC 838)	0.310	69.56	1.88	1.88				
	839	2300000233833 2336566356211		68	2300000233898	EHV Site Specific (LLFC 839 & 68)	0.021	13.35	1.18	1.18	(0.021)	56.21	0.05	0.05
	840	2336566566018				EHV Site Specific (LLFC 840)	1.971	34.78	4.75	4.75				
	841	2300000539365 2300000539374 2336590660028 2336590660037				EHV Site Specific (LLFC 841)	0.238	139.13	5.58	5.58				
	842	2300000539356 2336593810110				EHV Site Specific (LLFC 842)	0.057	69.56	2.92	2.92				
	843	2300000541434 2336593980114				EHV Site Specific (LLFC 843)	0.710	34.78	3.11	3.11				
	844	2356530330014 2356530330023				EHV Site Specific (LLFC 844)	0.596	69.56	6.22	6.22				
	845	2356562495011				EHV Site Specific (LLFC 845)	0.796	34.78	3.83	3.83				
	846	2300000444962 2300000601321 2366531830013				EHV Site Specific (LLFC 846)	1.251	104.35	3.76	3.76				
	847	2366560261014				EHV Site Specific (LLFC 847)	0.628	34.78	1.46	1.46				
	848	2300000457377 2366560264112				EHV Site Specific (LLFC 848)	0.628	69.56	6.50	6.50				
	849	2300000652292 2376503256010				EHV Site Specific (LLFC 849)	0.009	69.56	2.33	2.33				
	850	2300000647051 2300000647060 2376552920013 2376552920022				EHV Site Specific (LLFC 850)	0.515	139.13	3.01	3.01				
	851	2376550825013 2380000000543 2380000004097				EHV Site Specific (LLFC 851)	0.079	104.35	1.52	1.52				
	852	2380000257932		71	2394000016040	EHV Site Specific (LLFC 852 & 71)	0.037	1.95	1.12	1.12	(0.037)	32.83	0.05	0.05
	853	2380000428837 2380000428846				EHV Site Specific (LLFC 853)	0.018	69.56	2.81	2.81				
	854	2380000476088 2380000724195		72	2394000022132	EHV Site Specific (LLFC 854 & 72)	0.037	0.81	1.12	1.12	(0.037)	33.98	0.05	0.05
	855	2380001078977 2380001078986 2380001078995 2380001079001 2380001079321				EHV Site Specific (LLFC 855)		208.69	1.51	1.51				
	856	2380001519750 2380001519760 2380001519779 2380001519788				EHV Site Specific (LLFC 856)	0.132	139.13	1.26	1.26				
	857	2300000526046				EHV Site Specific (LLFC 857)	1.527	34.78	5.00	5.00				
	858*	2300000839364 2326526290016 2326526290025				EHV Site Specific (LLFC 858)	1.692	104.35	3.29	3.29				

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)
	859	2336525711011 2336525711020				EHV Site Specific (LLFC 859)	0.079	69.56	2.46	2.46				
	860	2336526332017 2336526332026				EHV Site Specific (LLFC 860)	0.260	139.13	2.66	2.66				
	861	2300000493180 2300000552125 2336552115017 2336552115026				EHV Site Specific (LLFC 861)	0.086	139.13	3.70	3.70				
	862	2300000234163 2300000234172 2336590770013 2336590770022				EHV Site Specific (LLFC 862)	1.427	139.13	3.95	3.95				
	863	2300000234066 2300000234075 2300000234084 2336590810010				EHV Site Specific (LLFC 863)	0.809	139.13	4.59	4.59				
	864	2300000478970				EHV Site Specific (LLFC 864)	0.279	34.78	1.80	1.80				
	865	2346530035017 2346530035026				EHV Site Specific (LLFC 865)	0.364	69.56	2.29	2.29				
	867	2346534433019 2346534433028				EHV Site Specific (LLFC 867)	0.232	69.56	3.74	3.74				
	868	2356530030015 2356530030024				EHV Site Specific (LLFC 868)	0.008	69.56	2.59	2.59				
	869	2356530321010 2356530321029				EHV Site Specific (LLFC 869)	0.596	69.56	5.83	5.83				
	870	2356530620210 2356530620229				EHV Site Specific (LLFC 870)	1.213	69.56	4.12	4.12				
	871	2366540061017 2366540061026				EHV Site Specific (LLFC 871)	0.770	69.56	3.02	3.02				
	872	2300000674055 2300000674064 2300000674073 2366540100010				EHV Site Specific (LLFC 872)	0.109	69.56	3.83	3.83				
	873	230000077530 2366540110116				EHV Site Specific (LLFC 873)	0.083	69.56	2.01	2.01				
	874	2300000542828		32	2300000542819	EHV Site Specific (LLFC 874 & 32)		3.12	1.49	1.49		31.66	0.05	0.05
	875	2366560263119				EHV Site Specific (LLFC 875)	0.628	69.56	2.71	2.71				
	876	2300000699565 2366591250015				EHV Site Specific (LLFC 876)	0.043	69.56	4.71	4.71				
	877	2366591617013				EHV Site Specific (LLFC 877)		69.56	5.46	5.46				
	878	2376501360010				EHV Site Specific (LLFC 878)	0.358	69.56	5.07	5.07				
	879	2376502195011				EHV Site Specific (LLFC 879)	0.064	69.56	1.08	1.08				
	880	2300000792050				EHV Site Specific (LLFC 880)	0.412	69.56	2.59	2.59				
	881	2300000634415 2376552766015				EHV Site Specific (LLFC 881)	0.412	69.56	3.27	3.27				
	882	2300000826383 2376503230011		69	2300000930377	EHV Site Specific (LLFC 882 & 69)	2.204	4.12	0.80	0.80	(2.204)	30.66	0.05	0.05
	883	2376508010017 2390000002440 2390000002459				EHV Site Specific (LLFC 883)	0.217	69.56	3.84	3.84				
	884	2300000233754				EHV Site Specific (LLFC 884)	0.029	34.78	2.45	2.45				
	886	2380001187667				EHV Site Specific (LLFC 886)	0.310	34.78	2.11	2.11				
	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658				EHV Site Specific (LLFC 888)	0.277	173.91	1.91	1.91				
	889	2380001564275		70	2394000039590	EHV Site Specific (LLFC 889 & 70)	0.051	0.88	1.36	1.36	(0.051)	33.90	0.05	0.05
	797	2390000079381		99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.721	0.63	1.91	1.91				
	798	2380001746400		61	2394000083311	EHV Site Specific (LLFC 798 & 61)		33.23	1.17	1.17		2,685.57	0.05	0.05
	799	2380001812550		51	2394000089457	EHV Site Specific (LLFC 799 & 51)	0.116	19.37	1.16	1.16	(0.130)	1,936.55	0.05	0.05
	821	2380001851381		52	2394000093027	EHV Site Specific (LLFC 821 & 52)	0.143	2.00	1.79	1.79		133.45	0.05	0.05
	822	2380001883036 2380001883045		53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)	0.143	5.04	1.73	1.73		130.41	0.05	0.05
	823	2380001877557		54	2394000097068	EHV Site Specific (LLFC 823 & 54)		30.65	1.17	1.17		2,204.99	0.05	0.05
	824	MSID 7275		55	MSID 7275	EHV Site Specific (LLFC 824 & 55)		18.88	1.14	1.14		651.45	0.05	0.05
	826	2380001874087		57	2394000094590	EHV Site Specific (LLFC 826 & 57)	0.134	17.20	1.91	1.91		2,063.55	0.05	0.05
	866	2346534400013 2346534400022				EHV Site Specific (LLFC 866)	0.361	34.78	1.84	1.84				
	827	2380001838371		58	2394000091952	EHV Site Specific (LLFC 827 & 58)	0.003	1.06	1.18	1.18	(0.093)	134.39	0.05	0.05
	768	2380001882798		59	2394000095804	EHV Site Specific (LLFC 768 & 59)	0.015	2.03	1.32	1.32		133.42	0.05	0.05

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

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
	801	2380001905070		105	2394000098805	EHV Site Specific (LLFC 801 & 105)	0.439	2.94	1.57	1.57		371.71	0.05	0.05
	792	2380001951360		96	2394000102693	EHV Site Specific (LLFC 792 & 96)		26.01	0.53	0.53		2,135.43	0.05	0.05
	806	2380002166640		109	2394000122500	EHV Site Specific (LLFC 806 & 109)	0.073	26.40	2.89	2.89		1,139.34	0.05	0.05
	803	2380001909066		107	2394000099074	EHV Site Specific (LLFC 803 & 107)		2.97	1.29	1.29		371.68	0.05	0.05
	805	2380001989309		108	2394000107353	EHV Site Specific (LLFC 805 & 108)	0.212	19.39	3.57	3.57		2,721.32	0.05	0.05
	825	2380002022460		56	2394000110630	EHV Site Specific (LLFC 825 & 56)	0.350	5.09	1.58	1.58		439.30	0.05	0.05
	802	2380001909075 2380001909084		106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	0.172	135.23	0.87	0.87	(0.205)	910.91	0.05	0.05
	807	2380002032360		63	2394000111660	EHV Site Specific (LLFC 807 & 63)		110.10	0.77	0.77		915.54	0.05	0.05
	810	2380002115663		110	2394000118693	EHV Site Specific (LLFC 810 & 110)	0.054	399.71	2.41	2.41	(0.054)	4,676.79	0.05	0.05
	811	TBC		113	TBC	EHV Site Specific (LLFC 811 & 113)	0.138	42.48	2.41	2.41		3,398.53	0.05	0.05
	885	2366560312013		31	2300000542785	EHV Site Specific (LLFC 885 & 31)	0.015	49.84	1.43	1.43	(0.015)	1,967.50	0.05	0.05
	828	TBC		42	TBC	EHV Site Specific (LLFC 828 & 42)		43.46	2.41	2.41		1,043.02	0.05	0.05
	829	2380002197132		43	TBC	EHV Site Specific (LLFC 829 & 43)	1.470	17.80	2.69	2.69		1,809.33	0.05	0.05
	830	2380002155666		44	2394000121845	EHV Site Specific (LLFC 830 & 44)	0.335	190.90	2.41	2.41	(0.335)	814.61	0.05	0.05
	726	TBC		45	TBC	EHV Site Specific (LLFC 726 & 45)		7.66	2.41	2.41		613.18	0.05	0.05
	727	2380002198730		46	2394000124400	EHV Site Specific (LLFC 727 & 46)	0.565	1,056.34	2.97	2.97		3,433.11	0.05	0.05
	728	2380002182970		47	2394000123434	EHV Site Specific (LLFC 728 & 47)	0.138	177.87	2.41	2.41		5,928.92	0.05	0.05
	729	TBC		48	TBC	EHV Site Specific (LLFC 729 & 48)		40.08	2.41	2.41		2,685.07	0.05	0.05
	730	TBC		49	TBC	EHV Site Specific (LLFC 730 & 49)	0.171	48.86	2.67	2.67		3,664.49	0.05	0.05
	809	2380002046577		64	2394000113278	EHV Site Specific (LLFC 809 & 64)		128.96	2.41	2.41		2,192.28	0.05	0.05
	731	TBC		50	TBC	EHV Site Specific (LLFC 731 & 50)	0.010	1.11	2.41	2.41		2,215.09	0.05	0.05
	891	2300000457697 2300000457702		35	2300000234242 2300000234251	EHV Site Specific - Generation Exempt (LLFC 891 & 35)	0.290	26.54	1.59	1.59				
	732	TBC		114	TBC	EHV Site Specific (LLFC 732 & 114)	0.005	6.27	2.85	2.85		518.24	0.05	0.05
	733	TBC		115	TBC	EHV Site Specific (LLFC 733 & 115)		2.08	2.03	2.03		768.14	0.05	0.05
	734	TBC		116	TBC	EHV Site Specific (LLFC 734 & 116)	0.019	5.37	2.33	2.33	(0.136)	304.43	0.05	0.05
	735	TBC		117	TBC	EHV Site Specific (LLFC 735 & 117)	0.137	15.32	2.23	2.23		429.94	0.05	0.05

*Charges superseded. Amended charges published in Annex 6 in line with clause 5.7 of the LC14 charging statement. Annex 6 available from: <http://www.northernpowergrid.com/document-library/charges>

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 2017 - 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)	0.572		7.98	7.98
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038	EHV Site Specific (LLFC 751)	0.040	3,347.81	2.04	2.04
	753	2356555555010	EHV Site Specific (LLFC 753 & 90)	0.841	4,114.53	2.80	2.80
	754	2356555554017 2380002015807	EHV Site Specific (LLFC 754 & 82)	0.340	4,420.65	1.80	1.80
	755	2316521850010	EHV Site Specific (LLFC 755 & 76)	0.098	1,901.41	2.09	2.09
	756	2346540436013	EHV Site Specific (LLFC 756 & 75)	0.015	3,891.26	1.46	1.46
	757	2336566756217	EHV Site Specific (LLFC 757 & 95)		603.26	1.13	1.13
	758	TBC	EHV Site Specific (LLFC 758)		4,448.67	0.75	0.75
	759	MSID_0645	EHV Site Specific (LLFC 759)	0.038	8,643.88	2.06	2.06
	760	2300000880966 2376509001013	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		781.61	1.27	1.27
	761	2300000526686 2336518071011	EHV Site Specific (LLFC 761)	0.003	270.90	0.90	0.90
	762	2300000457400	EHV Site Specific - Generation Exempt (LLFC 762 & 62)		22.32	1.44	1.44
	763	2300000775853 2376509000010	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.018	116.57	0.93	0.93
	764	2300000233959 2300000233968 2300000233977	EHV Site Specific (LLFC 764)	0.016	2,852.37	0.80	0.80
	765	2300000457084 2390000010840 2390000010859	EHV Site Specific (LLFC 765)	0.819	2,888.98	2.11	2.11
	766	2376508030013 2376508030022	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		66.85	1.12	1.12
	767	MSID_7020	EHV Site Specific - Generation Exempt (LLFC 767 & 67)		100.46	1.10	1.10
	769	2346526241119	EHV Site Specific (LLFC 769)		4,448.67	2.03	2.03
	770	2366591365115	EHV Site Specific (LLFC 770)		4,448.67	2.43	2.43
	771	2366591376117	EHV Site Specific (LLFC 771 & 92)		1,069.91	0.77	0.77
	772	2366591373116	EHV Site Specific (LLFC 772)		4,448.67	2.04	2.04
	773	2366591486111 2380002104680	EHV Site Specific (LLFC 773 & 65)		517.29	1.09	1.09
	774	2326522910011 2326522910020	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.073	64.60	1.16	1.16
	775	2380000531989	EHV Site Specific (LLFC 775 & 87)	0.078	201.19	0.96	0.96
	777	2300000233596	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.428	2.58	1.16	1.16
	778	2300000443816	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		6.86	2.10	2.10
	780	2380000825051	EHV Site Specific (LLFC 780)	0.004	656.91	0.54	0.54
	781	2300000790540	EHV Site Specific - Generation Exempt (LLFC 781 & 81)	0.001	63.97	1.22	1.22
	782	2300001016288 2300001016297	EHV Site Specific (LLFC 782)	0.613	270.90	2.74	2.74
	783	2300000974268	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.062	3.27	1.34	1.34
	784	2300001007247	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.029	0.40	1.58	1.58
	785	2380000151720	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.076	1.15	1.01	1.01
	786	2380000148115	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.77	0.81	0.81
	787	2380000123421 2380000123430	EHV Site Specific (LLFC 787)		749.30	2.36	2.36
	788	2380000654644	EHV Site Specific (LLFC 788 & 88)	0.375	78.12	1.49	1.49
	789	2380001118812	EHV Site Specific (LLFC 789 & 89)		50.14	1.34	1.34
	790	2380001476585	EHV Site Specific (LLFC 790 & 94)	0.034	5.94	1.33	1.33
	791	2380001494334	EHV Site Specific (LLFC 791 & 93)	0.060	2.64	1.22	1.22
	793	2380001252829 2380001252838 2380001767827	EHV Site Specific (LLFC 793 & 91)	0.137	61.58	1.13	1.13
	794	2380001458911	EHV Site Specific (LLFC 794 & 97)	0.548	285.19	1.16	1.16
	795	2380001532167 2380001532176	EHV Site Specific (LLFC 795)	0.077	1,032.02	1.09	1.09
	796	2380001635401	EHV Site Specific (LLFC 796 & 98)		48.36	0.54	0.54
	831	2316530305110 2316530305129	EHV Site Specific (LLFC 831)	3.744	69.56	7.59	7.59
	832	2316541311014	EHV Site Specific (LLFC 832 & 73)	1.612	30.67	3.03	3.03
	833	2326511015014 2326511015023	EHV Site Specific (LLFC 833)	4.264	69.56	4.13	4.13
	834	2300000456903 2300000516605 2326531140128	EHV Site Specific (LLFC 834)		104.35	3.61	3.61
	835	2300000473625 2336505790019	EHV Site Specific (LLFC 835)		69.56	8.25	8.25
	836	2300000473616 2336506255013	EHV Site Specific (LLFC 836)		69.56	6.29	6.29
	837	2300000473634 2336526022010	EHV Site Specific (LLFC 837 & 34)	0.262	47.50	2.20	2.20

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 2017 - 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)
	838	2300000584925 2336559992019	EHV Site Specific (LLFC 838)	0.310	69.56	1.88	1.88
	839	2300000233833 2336566356211	EHV Site Specific (LLFC 839 & 68)	0.021	13.35	1.18	1.18
	840	2336566566018	EHV Site Specific (LLFC 840)	1.971	34.78	4.75	4.75
	841	2300000539365 2300000539374 2336590660028 2336590660037	EHV Site Specific (LLFC 841)	0.238	139.13	5.58	5.58
	842	2300000539356 2336593810110	EHV Site Specific (LLFC 842)	0.057	69.56	2.92	2.92
	843	2300000541434 2336593980114	EHV Site Specific (LLFC 843)	0.710	34.78	3.11	3.11
	844	2356530330014 2356530330023	EHV Site Specific (LLFC 844)	0.596	69.56	6.22	6.22
	845	2356562495011	EHV Site Specific (LLFC 845)	0.796	34.78	3.83	3.83
	846	2300000444962 2300000601321 2366531830013	EHV Site Specific (LLFC 846)	1.251	104.35	3.76	3.76
	847	2366560261014	EHV Site Specific (LLFC 847)	0.628	34.78	1.46	1.46
	848	2300000457377 2366560264112	EHV Site Specific (LLFC 848)	0.628	69.56	6.50	6.50
	849	2300000652292 2376503256010	EHV Site Specific (LLFC 849)	0.009	69.56	2.33	2.33
	850	2300000647051 2300000647060 2376552920013 2376552920022	EHV Site Specific (LLFC 850)	0.515	139.13	3.01	3.01
	851	2376550825013 2380000000543 2380000004097	EHV Site Specific (LLFC 851)	0.079	104.35	1.52	1.52
	852	2380000257932	EHV Site Specific (LLFC 852 & 71)	0.037	1.95	1.12	1.12
	853	2380000428837 2380000428846	EHV Site Specific (LLFC 853)	0.018	69.56	2.81	2.81
	854	2380000476088	EHV Site Specific (LLFC 854 & 72)	0.037	0.81	1.12	1.12
	855	2380000724195 2380001078977 2380001078986 2380001078995 2380001079001 2380001079321	EHV Site Specific (LLFC 855)		208.69	1.51	1.51
	856	2380001519750 2380001519760 2380001519779 2380001519788	EHV Site Specific (LLFC 856)	0.132	139.13	1.26	1.26
	857	2300000526046	EHV Site Specific (LLFC 857)	1.527	34.78	5.00	5.00
	858*	2300000839364 2326526290016 2326526290025	EHV Site Specific (LLFC 858)	1.692	104.35	3.29	3.29
	859	2336525711011 2336525711020	EHV Site Specific (LLFC 859)	0.079	69.56	2.46	2.46
	860	2336526332017 2336526332026	EHV Site Specific (LLFC 860)	0.260	139.13	2.66	2.66
	861	2300000493180 2300000552125 2336552115017 2336552115026	EHV Site Specific (LLFC 861)	0.086	139.13	3.70	3.70
	862	2300000234163 2300000234172 2336590770013 2336590770022	EHV Site Specific (LLFC 862)	1.427	139.13	3.95	3.95
	863	2300000234066 2300000234075 2300000234084 2336590810010	EHV Site Specific (LLFC 863)	0.809	139.13	4.59	4.59
	864	2300000478970	EHV Site Specific (LLFC 864)	0.279	34.78	1.80	1.80
	865	2346530035017 2346530035026	EHV Site Specific (LLFC 865)	0.364	69.56	2.29	2.29
	867	2346534433019 2346534433028	EHV Site Specific (LLFC 867)	0.232	69.56	3.74	3.74
	868	2356530030015 2356530030024	EHV Site Specific (LLFC 868)	0.008	69.56	2.59	2.59
	869	2356530321010 2356530321029	EHV Site Specific (LLFC 869)	0.596	69.56	5.83	5.83
	870	2356530620210 2356530620229	EHV Site Specific (LLFC 870)	1.213	69.56	4.12	4.12
	871	2366540061017 2366540061026	EHV Site Specific (LLFC 871)	0.770	69.56	3.02	3.02

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 2017 - 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)
	872	2300000674055 2300000674064 2300000674073 2366540100010	EHV Site Specific (LLFC 872)	0.109	69.56	3.83	3.83
	873	2300000777530 2366540110116	EHV Site Specific (LLFC 873)	0.083	69.56	2.01	2.01
	874	2300000542828	EHV Site Specific (LLFC 874 & 32)		3.12	1.49	1.49
	875	2366560263119	EHV Site Specific (LLFC 875)	0.628	69.56	2.71	2.71
	876	2300000699565 2366591250015	EHV Site Specific (LLFC 876)	0.043	69.56	4.71	4.71
	877	2366591617013	EHV Site Specific (LLFC 877)		69.56	5.46	5.46
	878	2376501360010	EHV Site Specific (LLFC 878)	0.358	69.56	5.07	5.07
	879	2376502195011	EHV Site Specific (LLFC 879)	0.064	69.56	1.08	1.08
	880	2300000792050	EHV Site Specific (LLFC 880)	0.412	69.56	2.59	2.59
	881	2300000634415 2376552766015	EHV Site Specific (LLFC 881)	0.412	69.56	3.27	3.27
	882	2300000826383	EHV Site Specific (LLFC 882 & 69)	2.204	4.12	0.80	0.80
	883	2376503230011 2376508010017 2390000002440 2390000002459	EHV Site Specific (LLFC 883)	0.217	69.56	3.84	3.84
	884	2300000233754	EHV Site Specific (LLFC 884)	0.029	34.78	2.45	2.45
	886	2380001187667	EHV Site Specific (LLFC 886)	0.310	34.78	2.11	2.11
	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658	EHV Site Specific (LLFC 888)	0.277	173.91	1.91	1.91
	889	2380001564275	EHV Site Specific (LLFC 889 & 70)	0.051	0.88	1.36	1.36
	797	2390000079381	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.721	0.63	1.91	1.91
	798	2380001746400	EHV Site Specific (LLFC 798 & 61)		33.23	1.17	1.17
	799	2380001812550	EHV Site Specific (LLFC 799 & 51)	0.116	19.37	1.16	1.16
	821	2380001851381	EHV Site Specific (LLFC 821 & 52)	0.143	2.00	1.79	1.79
	822	2380001883036 2380001883045	EHV Site Specific (LLFC 822 & 53)	0.143	5.04	1.73	1.73
	823	2380001877557	EHV Site Specific (LLFC 823 & 54)		30.65	1.17	1.17
	824	MSID 7275	EHV Site Specific (LLFC 824 & 55)		18.88	1.14	1.14
	826	2380001874087	EHV Site Specific (LLFC 826 & 57)	0.134	17.20	1.91	1.91
	866	2346534400013 2346534400022	EHV Site Specific (LLFC 866)	0.361	34.78	1.84	1.84
	827	2380001838371	EHV Site Specific (LLFC 827 & 58)	0.003	1.06	1.18	1.18
	768	2380001882798	EHV Site Specific (LLFC 768 & 59)	0.015	2.03	1.32	1.32
	801	2380001905070	EHV Site Specific (LLFC 801 & 105)	0.439	2.94	1.57	1.57
	792	2380001951360	EHV Site Specific (LLFC 792 & 96)		26.01	0.53	0.53
	806	2380002166640	EHV Site Specific (LLFC 806 & 109)	0.073	26.40	2.89	2.89
	803	2380001909066	EHV Site Specific (LLFC 803 & 107)		2.97	1.29	1.29
	805	2380001989309	EHV Site Specific (LLFC 805 & 108)	0.212	19.39	3.57	3.57
	825	2380002022460	EHV Site Specific (LLFC 825 & 56)	0.350	5.09	1.58	1.58
	802	2380001909075 2380001909084	EHV Site Specific (LLFC 802 & 106)	0.172	135.23	0.87	0.87
	807	2380002032360	EHV Site Specific (LLFC 807 & 63)		110.10	0.77	0.77
	810	2380002115663	EHV Site Specific (LLFC 810 & 110)	0.054	399.71	2.41	2.41
	811	TBC	EHV Site Specific (LLFC 811 & 113)	0.138	42.48	2.41	2.41
	885	2366560312013	EHV Site Specific (LLFC 885 & 31)	0.015	49.84	1.43	1.43
	828	TBC	EHV Site Specific (LLFC 828 & 42)		43.46	2.41	2.41
	829	2380002197132	EHV Site Specific (LLFC 829 & 43)	1.470	17.80	2.69	2.69
	830	2380002155666	EHV Site Specific (LLFC 830 & 44)	0.335	190.90	2.41	2.41
	726	TBC	EHV Site Specific (LLFC 726 & 45)		7.66	2.41	2.41
	727	2380002198730	EHV Site Specific (LLFC 727 & 46)	0.565	1,056.34	2.97	2.97
	728	2380002182970	EHV Site Specific (LLFC 728 & 47)	0.138	177.87	2.41	2.41
	729	TBC	EHV Site Specific (LLFC 729 & 48)		40.08	2.41	2.41
	730	TBC	EHV Site Specific (LLFC 730 & 49)	0.171	48.86	2.67	2.67
	809	2380002046577	EHV Site Specific (LLFC 809 & 64)		128.96	2.41	2.41
	731	TBC	EHV Site Specific (LLFC 731 & 50)	0.010	1.11	2.41	2.41
	891	2300000457697 2300000457702	EHV Site Specific - Generation Exempt (LLFC 891 & 35)	0.290	26.54	1.59	1.59
	732	TBC	EHV Site Specific (LLFC 732 & 114)	0.005	6.27	2.85	2.85
	733	TBC	EHV Site Specific (LLFC 733 & 115)		2.08	2.03	2.03
	734	TBC	EHV Site Specific (LLFC 734 & 116)	0.019	5.37	2.33	2.33
	735	TBC	EHV Site Specific (LLFC 735 & 117)	0.137	15.32	2.23	2.23

*Charges superseded. Amended charges published in Annex 6 in line with clause 5.7 of the LC14 charging statement. Annex 6 available from: <http://www.northernpowergrid.com/document-library/charges>

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 2017 - 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)		68.58	0.05	0.05
	82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)		221.03	0.05	0.05
	76	2394000039641	EHV Site Specific (LLFC 755 & 76)		190.14	0.05	0.05
	75	2394000039679	EHV Site Specific (LLFC 756 & 75)		291.84	0.05	0.05
	95	2394000060226	EHV Site Specific (LLFC 757 & 95)	(0.015)	1,269.99	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 2300000948913	EHV Site Specific - Generation Exempt (LLFC 763 & 80)				
	66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)				
	67	MSID 7021	EHV Site Specific - Generation Exempt (LLFC 767 & 67)				
	92	2394000019176	EHV Site Specific (LLFC 771 & 92)		3,378.77	0.05	0.05
	65	2394000117991	EHV Site Specific (LLFC 773 & 65)		3,931.39	0.05	0.05
	74	2394000002925 239410008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)				
	87	2394000024440	EHV Site Specific (LLFC 775 & 87)	(0.262)	770.02	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)		534.24	0.05	0.05
	81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)				
	83	2300000974408 2394000113560	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)				
	88	2394000027673	EHV Site Specific (LLFC 788 & 88)	(0.797)	2,083.32	0.05	0.05
	89	2394000043364	EHV Site Specific (LLFC 789 & 89)	(0.209)	2,111.30	0.05	0.05
	94	2394000056790	EHV Site Specific (LLFC 790 & 94)		400.41	0.05	0.05
	93	2394000058333	EHV Site Specific (LLFC 791 & 93)	(0.183)	132.81	0.05	0.05
	91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)		1,046.52	0.05	0.05
	97	2394000055174	EHV Site Specific (LLFC 794 & 97)		9,006.11	0.05	0.05
	98	2394000072198	EHV Site Specific (LLFC 796 & 98)		4,815.74	0.05	0.05
	73	2300000233587	EHV Site Specific (LLFC 832 & 73)	(1.592)	4.12	0.05	0.05
	34	2394000106234	EHV Site Specific (LLFC 837 & 34)		22.07	0.05	0.05
	68	2300000233898	EHV Site Specific (LLFC 839 & 68)	(0.021)	56.21	0.05	0.05
	71	2394000016040	EHV Site Specific (LLFC 852 & 71)	(0.037)	32.83	0.05	0.05
	72	2394000022132	EHV Site Specific (LLFC 854 & 72)	(0.037)	33.98	0.05	0.05
	32	2300000542819	EHV Site Specific (LLFC 874 & 32)		31.66	0.05	0.05
	69	2300000930377	EHV Site Specific (LLFC 882 & 69)	(2.204)	30.66	0.05	0.05
	70	2394000039590	EHV Site Specific (LLFC 889 & 70)	(0.051)	33.90	0.05	0.05
	99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)				
	61	2394000083311	EHV Site Specific (LLFC 798 & 61)		2,685.57	0.05	0.05
	51	2394000089457	EHV Site Specific (LLFC 799 & 51)	(0.130)	1,936.55	0.05	0.05
	52	2394000093027	EHV Site Specific (LLFC 821 & 52)		133.45	0.05	0.05
	53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)		130.41	0.05	0.05
	54	2394000097068	EHV Site Specific (LLFC 823 & 54)		2,204.99	0.05	0.05
	55	MSID 7275	EHV Site Specific (LLFC 824 & 55)		651.45	0.05	0.05
	57	2394000094590	EHV Site Specific (LLFC 826 & 57)		2,063.55	0.05	0.05
	58	2394000091952	EHV Site Specific (LLFC 827 & 58)	(0.093)	134.39	0.05	0.05
	59	2394000095804	EHV Site Specific (LLFC 768 & 59)		133.42	0.05	0.05
	105	2394000098805	EHV Site Specific (LLFC 801 & 105)		371.71	0.05	0.05
	96	2394000102693	EHV Site Specific (LLFC 792 & 96)		2,135.43	0.05	0.05
	109	2394000122500	EHV Site Specific (LLFC 806 & 109)		1,139.34	0.05	0.05
	107	2394000099074	EHV Site Specific (LLFC 803 & 107)		371.68	0.05	0.05
	108	2394000107353	EHV Site Specific (LLFC 805 & 108)		2,721.32	0.05	0.05
	56	2394000110630	EHV Site Specific (LLFC 825 & 56)		439.30	0.05	0.05
	106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	(0.205)	910.91	0.05	0.05
	63	2394000111660	EHV Site Specific (LLFC 807 & 63)		915.54	0.05	0.05
	110	2394000118693	EHV Site Specific (LLFC 810 & 110)	(0.054)	4,676.79	0.05	0.05
	113	TBC	EHV Site Specific (LLFC 811 & 113)		3,398.53	0.05	0.05
	31	2300000542785	EHV Site Specific (LLFC 885 & 31)	(0.015)	1,967.50	0.05	0.05
	42	TBC	EHV Site Specific (LLFC 828 & 42)		1,043.02	0.05	0.05
	43	TBC	EHV Site Specific (LLFC 829 & 43)		1,809.33	0.05	0.05
	44	2394000121845	EHV Site Specific (LLFC 830 & 44)	(0.335)	814.61	0.05	0.05
	45	TBC	EHV Site Specific (LLFC 726 & 45)		613.18	0.05	0.05
	46	2394000124400	EHV Site Specific (LLFC 727 & 46)		3,433.11	0.05	0.05
	47	2394000123434	EHV Site Specific (LLFC 728 & 47)		5,928.92	0.05	0.05
	48	TBC	EHV Site Specific (LLFC 729 & 48)		2,685.07	0.05	0.05
	49	TBC	EHV Site Specific (LLFC 730 & 49)		3,664.49	0.05	0.05
	64	2394000113278	EHV Site Specific (LLFC 809 & 64)		2,192.28	0.05	0.05
	50	TBC	EHV Site Specific (LLFC 731 & 50)		2,215.09	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 2017 - 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)
	35	2300000234242 2300000234251	EHV Site Specific - Generation Exempt (LLFC 891 & 35)				
	114	TBC	EHV Site Specific (LLFC 732 & 114)		518.24	0.05	0.05
	115	TBC	EHV Site Specific (LLFC 733 & 115)		768.14	0.05	0.05
	116	TBC	EHV Site Specific (LLFC 734 & 116)	(0.136)	304.43	0.05	0.05
	117	TBC	EHV Site Specific (LLFC 735 & 117)		429.94	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 2017 - 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	Reactive power charge p/kVAh	Excess capacity charge p/kVA/day

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 2017 - 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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO LV: Domestic Unrestricted	150	1	1.130			3.14			
LDNO LV: Domestic Two Rate	151	2	1.390	0.067		3.14			
LDNO LV: Domestic Off Peak (related MPAN)	152	2	0.225						
LDNO LV: Small Non Domestic Unrestricted	153	3	1.373			3.35			
LDNO LV: Small Non Domestic Two Rate	154	4	1.585	0.119		3.35			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	155	4	0.300						
LDNO LV: LV Medium Non-Domestic	156	5-8	1.270	0.066		25.71			
LDNO LV: LV Network Domestic	148	0	5.976	0.612	0.050	3.14			
LDNO LV: LV Network Non-Domestic Non-CT	149	0	7.548	0.773	0.063	3.35			
LDNO LV: LV HH Metered	157	0	5.452	0.529	0.042	9.05	0.92	0.198	0.92
LDNO LV: NHH UMS category A	132	8	0.724						
LDNO LV: NHH UMS category B	133	1	0.983						
LDNO LV: NHH UMS category C	134	1	1.826						
LDNO LV: NHH UMS category D	135	1	0.556						
LDNO LV: LV UMS (Pseudo HH Metered)	170	0	14.338	0.549	0.046				
LDNO LV: LV Generation NHH or Aggregate HH	172	8&0	(0.538)			0.00			
LDNO LV: LV Generation Intermittent	173	0	(0.538)			0.00		0.131	
LDNO LV: LV Generation Non-Intermittent	174	0	(3.172)	(0.576)	(0.049)	0.00		0.131	
LDNO HV: Domestic Unrestricted	158	1	0.657			1.83			
LDNO HV: Domestic Two Rate	159	2	0.808	0.039		1.83			
LDNO HV: Domestic Off Peak (related MPAN)	160	2	0.131						
LDNO HV: Small Non Domestic Unrestricted	161	3	0.798			1.95			
LDNO HV: Small Non Domestic Two Rate	162	4	0.922	0.069		1.95			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	163	4	0.175						
LDNO HV: LV Medium Non-Domestic	164	5-8	0.738	0.038		14.95			
LDNO HV: LV Network Domestic	398	0	3.475	0.356	0.029	1.83			
LDNO HV: LV Network Non-Domestic Non-CT	399	0	4.389	0.449	0.036	1.95			
LDNO HV: LV HH Metered	165	0	3.170	0.308	0.024	5.26	0.53	0.115	0.53
LDNO HV: LV Sub HH Metered	166	0	4.561	0.397	0.030	9.01	1.07	0.145	1.07
LDNO HV: HV HH Metered	167	0	4.602	0.350	0.024	116.74	1.49	0.138	1.49
LDNO HV: NHH UMS category A	136	8	0.421						
LDNO HV: NHH UMS category B	137	1	0.571						
LDNO HV: NHH UMS category C	138	1	1.062						
LDNO HV: NHH UMS category D	139	1	0.323						
LDNO HV: LV UMS (Pseudo HH Metered)	171	0	8.337	0.319	0.026				
LDNO HV: LV Generation NHH or Aggregate HH	175	8&0	(0.538)			0.00			
LDNO HV: LV Sub Generation NHH	176	8	(0.473)			0.00			
LDNO HV: LV Generation Intermittent	177	0	(0.538)			0.00		0.131	
LDNO HV: LV Generation Non-Intermittent	178	0	(3.172)	(0.576)	(0.049)	0.00		0.131	
LDNO HV: LV Sub Generation Intermittent	179	0	(0.473)			0.00		0.123	

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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO HV: LV Sub Generation Non-Intermittent	180	0	(2.810)	(0.503)	(0.042)	0.00		0.123	
LDNO HV: HV Generation Intermittent	181	0	(0.340)			0.00		0.099	
LDNO HV: HV Generation Non-Intermittent	182	0	(2.092)	(0.345)	(0.026)	0.00		0.099	
LDNO HVplus: Domestic Unrestricted	183	1	0.509			1.42			
LDNO HVplus: Domestic Two Rate	184	2	0.627	0.030		1.42			
LDNO HVplus: Domestic Off Peak (related MPAN)	185	2	0.101						
LDNO HVplus: Small Non Domestic Unrestricted	186	3	0.619			1.51			
LDNO HVplus: Small Non Domestic Two Rate	187	4	0.715	0.054		1.51			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	188	4	0.135						
LDNO HVplus: LV Medium Non-Domestic	189	5-8	0.572	0.030		11.59			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	0.592	0.029		6.91			
LDNO HVplus: HV Medium Non-Domestic		5-8	0.613	0.016		88.76			
LDNO HVplus: LV Network Domestic	422	0	2.694	0.276	0.022	1.42			
LDNO HVplus: LV Network Non-Domestic Non-CT	423	0	3.402	0.348	0.028	1.51			
LDNO HVplus: LV HH Metered	190	0	2.458	0.238	0.019	4.08	0.41	0.089	0.41
LDNO HVplus: LV Sub HH Metered	191	0	3.497	0.304	0.023	6.91	0.82	0.111	0.82
LDNO HVplus: HV HH Metered	192	0	3.499	0.266	0.018	88.76	1.14	0.105	1.14
LDNO HVplus: NHH UMS category A	140	8	0.326						
LDNO HVplus: NHH UMS category B	141	1	0.443						
LDNO HVplus: NHH UMS category C	142	1	0.823						
LDNO HVplus: NHH UMS category D	143	1	0.251						
LDNO HVplus: LV UMS (Pseudo HH Metered)	194	0	6.463	0.247	0.021				
LDNO HVplus: LV Generation NHH or Aggregate HH	195	8	(0.247)			0.00			
LDNO HVplus: LV Sub Generation NHH	196	8	(0.265)			0.00			
LDNO HVplus: LV Generation Intermittent	197	0	(0.247)			0.00		0.060	
LDNO HVplus: LV Generation Non-Intermittent	198	0	(1.458)	(0.265)	(0.023)	0.00		0.060	
LDNO HVplus: LV Sub Generation Intermittent	199	0	(0.265)			0.00		0.069	
LDNO HVplus: LV Sub Generation Non-Intermittent	315	0	(1.572)	(0.281)	(0.023)	0.00		0.069	
LDNO HVplus: HV Generation Intermittent	316	0	(0.340)			60.11		0.099	
LDNO HVplus: HV Generation Non-Intermittent	317	0	(2.092)	(0.345)	(0.026)	60.11		0.099	
LDNO EHV: Domestic Unrestricted	318	1	0.354			0.98			
LDNO EHV: Domestic Two Rate	319	2	0.436	0.021		0.98			
LDNO EHV: Domestic Off Peak (related MPAN)	320	2	0.071						
LDNO EHV: Small Non Domestic Unrestricted	321	3	0.430			1.05			
LDNO EHV: Small Non Domestic Two Rate	322	4	0.497	0.037		1.05			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	323	4	0.094						
LDNO EHV: LV Medium Non-Domestic	324	5-8	0.398	0.021		8.05			
LDNO EHV: LV Sub Medium Non-Domestic		5-8	0.412	0.020		4.80			
LDNO EHV: HV Medium Non-Domestic		5-8	0.426	0.011		61.70			
LDNO EHV: LV Network Domestic	424	0	1.873	0.192	0.016	0.98			
LDNO EHV: LV Network Non-Domestic Non-CT	425	0	2.365	0.242	0.020	1.05			
LDNO EHV: LV HH Metered	325	0	1.708	0.166	0.013	2.83	0.29	0.062	0.29
LDNO EHV: LV Sub HH Metered	326	0	2.431	0.212	0.016	4.80	0.57	0.077	0.57
LDNO EHV: HV HH Metered	327	0	2.432	0.185	0.013	61.70	0.79	0.073	0.79
LDNO EHV: NHH UMS category A	144	8	0.227						
LDNO EHV: NHH UMS category B	145	1	0.308						
LDNO EHV: NHH UMS category C	146	1	0.572						
LDNO EHV: NHH UMS category D	147	1	0.174						
LDNO EHV: LV UMS (Pseudo HH Metered)	329	0	4.493	0.172	0.014				
LDNO EHV: LV Generation NHH or Aggregate HH	330	8	(0.172)			0.00			
LDNO EHV: LV Sub Generation NHH	331	8	(0.184)			0.00			
LDNO EHV: LV Generation Intermittent	332	0	(0.172)			0.00		0.042	

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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO EHV: LV Generation Non-Intermittent	333	0	(1.014)	(0.184)	(0.016)	0.00		0.042	
LDNO EHV: LV Sub Generation Intermittent	334	0	(0.184)			0.00		0.048	
LDNO EHV: LV Sub Generation Non-Intermittent	335	0	(1.093)	(0.196)	(0.016)	0.00		0.048	
LDNO EHV: HV Generation Intermittent	336	0	(0.236)			41.78		0.069	
LDNO EHV: HV Generation Non-Intermittent	337	0	(1.454)	(0.240)	(0.018)	41.78		0.069	
LDNO 132kV/EHV: Domestic Unrestricted	338	1	0.234			0.65			
LDNO 132kV/EHV: Domestic Two Rate	339	2	0.289	0.014		0.65			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	340	2	0.047						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	341	3	0.285			0.70			
LDNO 132kV/EHV: Small Non Domestic Two Rate	342	4	0.329	0.025		0.70			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	343	4	0.062						
LDNO 132kV/EHV: LV Medium Non-Domestic	344	5-8	0.264	0.014		5.33			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.273	0.014		3.18			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.282	0.007		40.86			
LDNO 132kV/EHV: LV Network Domestic	426	0	1.240	0.127	0.010	0.65			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT	427	0	1.566	0.160	0.013	0.70			
LDNO 132kV/EHV: LV HH Metered	345	0	1.131	0.110	0.009	1.88	0.19	0.041	0.19
LDNO 132kV/EHV: LV Sub HH Metered	346	0	1.610	0.140	0.011	3.18	0.38	0.051	0.38
LDNO 132kV/EHV: HV HH Metered	347	0	1.611	0.123	0.009	40.86	0.52	0.048	0.52
LDNO 132kV/EHV: NHH UMS category A	302	8	0.150						
LDNO 132kV/EHV: NHH UMS category B	303	1	0.204						
LDNO 132kV/EHV: NHH UMS category C	304	1	0.379						
LDNO 132kV/EHV: NHH UMS category D	305	1	0.115						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	349	0	2.976	0.114	0.009				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH	350	8	(0.114)			0.00			
LDNO 132kV/EHV: LV Sub Generation NHH	351	8	(0.122)			0.00			
LDNO 132kV/EHV: LV Generation Intermittent	352	0	(0.114)			0.00		0.028	
LDNO 132kV/EHV: LV Generation Non-Intermittent	353	0	(0.671)	(0.122)	(0.010)	0.00		0.028	
LDNO 132kV/EHV: LV Sub Generation Intermittent	354	0	(0.122)			0.00		0.032	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	355	0	(0.724)	(0.130)	(0.011)	0.00		0.032	
LDNO 132kV/EHV: HV Generation Intermittent	356	0	(0.157)			27.67		0.046	
LDNO 132kV/EHV: HV Generation Non-Intermittent	357	0	(0.963)	(0.159)	(0.012)	27.67		0.046	
LDNO 132kV: Domestic Unrestricted	358	1	0.119			0.33			
LDNO 132kV: Domestic Two Rate	359	2	0.147	0.007		0.33			
LDNO 132kV: Domestic Off Peak (related MPAN)	360	2	0.024						
LDNO 132kV: Small Non Domestic Unrestricted	361	3	0.145			0.35			
LDNO 132kV: Small Non Domestic Two Rate	362	4	0.167	0.013		0.35			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	363	4	0.032						
LDNO 132kV: LV Medium Non-Domestic	364	5-8	0.134	0.007		2.71			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.138	0.007		1.61			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.143	0.004		20.75			
LDNO 132kV: LV Network Domestic	428	0	0.630	0.064	0.005	0.33			
LDNO 132kV: LV Network Non-Domestic Non-CT	429	0	0.795	0.081	0.007	0.35			
LDNO 132kV: LV HH Metered	365	0	0.575	0.056	0.004	0.95	0.10	0.021	0.10
LDNO 132kV: LV Sub HH Metered	366	0	0.817	0.071	0.005	1.61	0.19	0.026	0.19
LDNO 132kV: HV HH Metered	367	0	0.818	0.062	0.004	20.75	0.27	0.025	0.27
LDNO 132kV: NHH UMS category A	306	8	0.076						
LDNO 132kV: NHH UMS category B	307	1	0.104						
LDNO 132kV: NHH UMS category C	308	1	0.192						
LDNO 132kV: NHH UMS category D	309	1	0.059						
LDNO 132kV: LV UMS (Pseudo HH Metered)	369	0	1.511	0.058	0.005				
LDNO 132kV: LV Generation NHH or Aggregate HH	370	8	(0.058)			0.00			
LDNO 132kV: LV Sub Generation NHH	371	8	(0.062)			0.00			

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	Reactive power charge p/kVArh	Exceeded capacity charge p/kVA/day
LDNO 132kV: LV Generation Intermittent	372	0	(0.058)			0.00		0.014	
LDNO 132kV: LV Generation Non-Intermittent	373	0	(0.341)	(0.062)	(0.005)	0.00		0.014	
LDNO 132kV: LV Sub Generation Intermittent	374	0	(0.062)			0.00		0.016	
LDNO 132kV: LV Sub Generation Non-Intermittent	375	0	(0.368)	(0.066)	(0.005)	0.00		0.016	
LDNO 132kV: HV Generation Intermittent	376	0	(0.079)			14.05		0.023	
LDNO 132kV: HV Generation Non-Intermittent	377	0	(0.489)	(0.081)	(0.006)	14.05		0.023	
LDNO 0000: Domestic Unrestricted	378	1	0.037			0.10			
LDNO 0000: Domestic Two Rate	379	2	0.046	0.002		0.10			
LDNO 0000: Domestic Off Peak (related MPAN)	380	2	0.007						
LDNO 0000: Small Non Domestic Unrestricted	381	3	0.045			0.11			
LDNO 0000: Small Non Domestic Two Rate	382	4	0.052	0.004		0.11			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	383	4	0.010						
LDNO 0000: LV Medium Non-Domestic	384	5-8	0.042	0.002		0.85			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	0.043	0.002		0.51			
LDNO 0000: HV Medium Non-Domestic		5-8	0.045	0.001		6.50			
LDNO 0000: LV Network Domestic	430	0	0.197	0.020	0.002	0.10			
LDNO 0000: LV Network Non-Domestic Non-CT	431	0	0.249	0.026	0.002	0.11			
LDNO 0000: LV HH Metered	385	0	0.180	0.017	0.001	0.30	0.03	0.007	0.03
LDNO 0000: LV Sub HH Metered	386	0	0.256	0.022	0.002	0.51	0.06	0.008	0.06
LDNO 0000: HV HH Metered	387	0	0.256	0.019	0.001	6.50	0.08	0.008	0.08
LDNO 0000: NHH UMS category A	310	8	0.024						
LDNO 0000: NHH UMS category B	311	1	0.032						
LDNO 0000: NHH UMS category C	312	1	0.060						
LDNO 0000: NHH UMS category D	313	1	0.018						
LDNO 0000: LV UMS (Pseudo HH Metered)	389	0	0.473	0.018	0.002				
LDNO 0000: LV Generation NHH or Aggregate HH	390	8	(0.018)			0.00			
LDNO 0000: LV Sub Generation NHH	391	8	(0.019)			0.00			
LDNO 0000: LV Generation Intermittent	392	0	(0.018)			0.00		0.004	
LDNO 0000: LV Generation Non-Intermittent	393	0	(0.107)	(0.019)	(0.002)	0.00		0.004	
LDNO 0000: LV Sub Generation Intermittent	394	0	(0.019)			0.00		0.005	
LDNO 0000: LV Sub Generation Non-Intermittent	395	0	(0.115)	(0.021)	(0.002)	0.00		0.005	
LDNO 0000: HV Generation Intermittent	396	0	(0.025)			4.40		0.007	
LDNO 0000: HV Generation Non-Intermittent	397	0	(0.153)	(0.025)	(0.002)	4.40		0.007	

Annex 5 – Schedule of Line Loss Factors

These line loss factors are illustrative based on the latest calculated values and are published in good faith. However, 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 if they differ from these values.

Northern Powergrid (Yorkshire) plc - Illustrative LLFs for year beginning 1 April 2017				
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	1.120	1.107	1.082	1.095	100, 111, 120, 20, 214, 22, 24, 240, 246, 279, 281, 290, 299, 813, 814, 815, 816, 817, 913, 999
Low Voltage Substation	1.047	1.046	1.048	1.045	23, 25, 30, 471
High Voltage Network	1.032	1.030	1.024	1.027	26, 28, 580, 581
High Voltage Substation	1.022	1.021	1.018	1.020	31, 32, 34, 35, 36, 37, 38, 39, 68, 685, 69, 70, 71, 72, 73, 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, 887, 888, 889, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 686
Greater than 22kV connected - generation	1.015	1.014	1.011	1.013	113, 114, 115, 116, 117, 118, 119, 124, 125, 126, 127, 128, 129, 42, 45, 48, 49, 50, 511, 512, 513, 514, 515, 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	1.015	1.014	1.011	1.013	726, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 745, 746, 747, 748, 749, 808, 811, 828, 901, 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

EHV site specific LLFs					
Demand					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 1	1.025	1.026	1.026	1.027	750
Site 2	1.003	1.003	1.003	1.003	751
Site 3	1.018	1.018	1.038	1.018	753
Site 4	1.011	1.011	1.022	1.012	754
Site 5	1.007	1.007	1.017	1.009	755
Site 6	1.006	1.006	1.014	1.008	756
Site 7	1.000	1.004	1.002	1.006	757
Site 8	1.015	1.014	1.011	1.013	758
Site 9	1.007	1.007	1.007	1.007	759
Site 10	1.005	1.005	1.005	1.005	760
Site 11	1.000	1.000	1.000	1.000	761
Site 12	1.008	1.009	1.008	1.009	762
Site 13	1.012	1.011	1.021	1.026	763
Site 14	1.000	1.000	1.000	1.000	764
Site 15	1.017	1.019	1.019	1.020	765
Site 16	11.359	11.332	1.010	1.010	766
Site 17	1.005	1.015	1.023	1.014	767
Site 18	1.041	1.048	1.049	1.050	769
Site 19	1.028	1.033	1.040	1.036	770
Site 20	1.023	1.028	1.033	1.029	771
Site 21	1.015	1.017	1.024	1.022	772
Site 22	1.074	1.082	1.125	1.103	773
Site 23	1.023	1.021	1.015	1.017	774
Site 24	1.010	1.010	1.009	1.009	775
Site 25	1.017	1.012	1.008	1.009	777
Site 26	1.000	1.001	1.001	1.001	778
Site 27	1.000	1.000	1.000	1.000	780
Site 28	1.014	1.012	1.036	1.015	781
Site 29	1.014	1.013	1.013	1.013	782
Site 30	1.014	1.013	1.017	1.015	783
Site 31	1.075	1.085	1.072	1.080	784
Site 32	1.015	1.007	1.006	1.006	785
Site 33	1.005	1.005	1.005	1.005	786
Site 34	1.005	1.004	1.003	1.004	787
Site 35	1.026	1.025	1.023	1.027	788
Site 36	1.009	1.008	1.006	1.006	789

Annex 5 – Schedule of Line Loss Factors

Site 3	1.018	1.018	1.038	1.018	753
Site 37	1.026	1.030	1.025	1.028	790
Site 38	1.000	1.009	1.000	1.024	791
Site 39	1.631	1.359	1.358	1.322	793
Site 40	1.074	1.069	1.063	1.065	794
Site 41	1.022	1.009	1.114	1.015	795
Site 42	1.001	1.005	1.001	1.003	796
Site 43	1.015	1.014	1.012	1.013	797
Site 44	1.017	1.014	1.009	1.011	798
Site 45	1.015	1.014	1.011	1.013	799
Site 46	1.058	1.051	1.032	1.043	821
Site 47	1.053	1.054	1.038	1.045	822
Site 48	1.059	1.059	1.051	1.058	823
Site 49	0.998	0.997	0.997	0.997	824
Site 50	1.444	1.451	1.502	1.581	826
Site 51	1.013	1.009	1.016	1.015	827
Site 52	1.021	1.021	1.019	1.019	768
Site 53	1.060	1.059	1.050	1.052	801
Site 54	1.000	1.000	1.000	1.000	792
Site 55	1.015	1.014	1.011	1.013	806
Site 56	1.003	1.003	1.002	1.002	803
Site 57	1.082	1.072	1.068	1.077	805
Site 58	1.014	1.013	1.009	1.011	825
Site 59	1.000	1.009	1.008	1.008	802
Site 60	1.000	1.000	1.000	1.000	807
Site 61	1.008	1.009	1.009	1.010	810
Site 62	1.015	1.014	1.011	1.013	829
Site 63	1.015	1.014	1.011	1.013	830
Site 64	1.015	1.014	1.011	1.013	727
Site 65	1.015	1.014	1.011	1.013	728
Site 66	1.015	1.014	1.011	1.013	809

EHV site specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 1	1.000	1.116	1.173	1.495	90
Site 2	1.004	1.003	0.989	1.000	82
Site 3	0.998	0.998	0.986	0.994	76
Site 4	0.974	0.977	0.968	0.986	75
Site 5	1.000	1.000	0.999	1.000	95
Site 6	1.001	1.001	1.000	1.001	60
Site 7	1.003	1.003	1.000	1.002	62
Site 8	1.004	1.004	1.000	1.000	80
Site 9	1.001	1.001	0.998	0.999	66
Site 10	0.997	0.992	0.987	0.992	67
Site 11	0.988	0.986	0.983	0.985	92
Site 12	0.991	0.988	0.985	0.988	65
Site 13	1.032	1.000	1.007	1.018	74
Site 14	1.003	1.003	0.998	1.001	87
Site 15	1.013	1.013	1.008	1.011	77
Site 16	1.000	1.000	1.000	1.000	78
Site 17	0.990	0.990	0.968	0.986	81
Site 18	1.010	1.013	1.007	1.010	83
Site 19	0.997	1.001	1.003	1.003	84
Site 20	1.005	1.005	1.002	1.003	85
Site 21	1.001	1.001	1.000	1.001	86
Site 22	1.013	1.013	1.007	1.010	88
Site 23	1.006	1.005	1.004	1.005	89
Site 24	1.003	1.003	1.002	1.002	94
Site 25	1.013	1.012	1.006	1.009	93
Site 26	0.996	0.992	0.995	0.996	91
Site 27	1.011	1.009	1.003	1.007	97
Site 28	0.999	0.999	0.999	0.999	98
Site 29	1.017	1.017	1.000	1.014	99
Site 30	0.990	0.989	0.991	0.992	61
Site 31	1.015	1.014	1.011	1.013	51
Site 32	1.003	1.000	0.991	0.998	52
Site 33	1.001	0.999	0.991	0.997	53
Site 34	0.982	0.983	0.986	0.987	54
Site 35	0.998	0.997	0.997	0.997	55
Site 36	0.995	0.994	0.992	0.995	57
Site 37	1.000	1.000	1.000	0.999	58
Site 38	0.987	0.989	0.992	0.992	59
Site 39	1.009	1.009	1.006	1.007	105
Site 40	1.000	1.000	1.000	1.000	96
Site 41	1.015	1.014	1.011	1.013	109
Site 42	1.001	1.001	1.000	1.001	107
Site 43	0.984	0.984	0.979	0.985	108
Site 44	1.008	1.007	1.004	1.006	56
Site 45	1.007	1.008	1.007	1.007	106
Site 46	1.000	1.000	1.000	1.000	63
Site 47	1.015	1.014	1.011	1.013	110
Site 48	1.015	1.014	1.011	1.013	43
Site 49	1.015	1.014	1.011	1.013	44
Site 50	1.015	1.014	1.011	1.013	46
Site 51	1.015	1.014	1.011	1.013	47
Site 52	1.015	1.014	1.011	1.013	64

Annex 6 - New Designated EHV Properties. Addendum to Schedule of Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users)