



Northern Powergrid (Yorkshire) Plc

Use of System Charging Statement

Notice of Charges

Effective from

1 April 2020

Version 0.4

Version Control

Version	Date	Description of version and any changes made
0.1	19 Dec 2018	This statement is based on version 0.1 of the common template developed during 2018.
0.1	29 Mar 2019	The form of this statement was approved by Ofgem on 28 March 2019. No changes to previous version.
0.2	19 Nov 2019	This statement has been revised to update Annex 5 based on the 2019 losses submission.
0.3	14 Feb 2020	This statement has been revised to update the LDNO HV demand tariffs in Annex 4 to comply with the Ofgem direction issued for tariffs that take effect from 1 April 2020. Details of the Ofgem direction can be found https://www.ofgem.gov.uk/publications-and-updates/decision-grant-derogations-all-distribution-network-operators-distribution-use-system-charges-202021
0.4	12 Jun 2020	This statement has been revised to include Supplier Liquidity guidance in section 7. The Ofgem open letter can be found https://www.ofgem.gov.uk/publications-and-updates/managing-impact-covid-19-energy-market-relaxing-network-charge-payment-terms

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

Contents

1. Introduction	5
Validity period	6
Contact details	6
2. Charge application and definitions	7
The supercustomer and site-specific billing approaches	7
Supercustomer billing and payment	7
Supercustomer charges	8
Site-specific billing and payment	9
Site-specific billed charges	9
Time periods	10
Application of capacity charges	10
Chargeable capacity	10
Exceeded capacity	11
Demand exceeded capacity	11
Generation exceeded capacity	11
Standby capacity for additional security on site	12
Minimum capacity levels	12
Application of charges for excess reactive power	12
Demand chargeable reactive power	12
Generation chargeable reactive power	13
Incorrectly allocated charges	13
Generation charges for pre-2005 Designated EHV Properties	15
Provision of billing data	15
Out of area use of system charges	16
Licensed distribution network operator charges	16
Licence exempt distribution networks	16
Full settlement metering	17
Difference metering	17
Gross settlement	17
3. Schedule of charges for use of the Distribution System	19
4. Schedule of line loss factors	20
Role of line loss factors in the supply of electricity	20
Calculation of line loss factors	20
Publication of line loss factors	20
5. Notes for Designated EHV Properties	22
EDCM nodal costs	22
Charges for new Designated EHV Properties	22
Charges for amended Designated EHV Properties	22
Demand side management	22
6. Electricity distribution rebates	24
7. Accounting and administration services	24
8. Charges for electrical plant provided ancillary to the grant of Use of System	24
Appendix 1 - Glossary of Terms	25
Appendix 2 - Guidance notes	32
Background	32
Meter point administration	32
Your charges	34
Reducing your charges	34
Reactive power and reactive power charges	34
Site-specific EDCM charges	35

Annex 1 - Schedule of charges for use of the distribution system by LV and HV Designated Properties	37
Annex 2 - Schedule of charges for use of the distribution system by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users)	38
Annex 3 - Schedule of charges for use of the distribution system by preserved/additional LLF classes	48
Annex 4 - Charges applied to LDNOs with LV and HV end-users	49
Annex 5 - Schedule of line loss factors	53
Annex 6 - Charges for New or Amended Designated EHV Properties	57

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 Line Loss 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 following methodologies as per the Distribution Connection and Use of System Agreement (DCUSA)³:
 - (a) Common Distribution Charging Methodology (CDCM); for Low Voltage and High Voltage (LV and HV) Designated Properties as per DCUSA Schedule 16; and
 - (b) Extra-High Voltage Distribution Charging Methodology (EDCM); for Designated Extra-High Voltage (EHV) Properties as per DCUSA Schedule 18.
- 1.4. Separate charges are calculated depending on the characteristics of the connection and whether the use of the Distribution System is for demand or generation purposes. Where a generation connection is seen to support the Distribution System the charges will be negative and the Supplier will receive credits for exported energy.
- 1.5. The application of charges to a premise can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on how to identify and calculate the charge that will apply for your premises is provided in the guidance notes in Appendix 2.
- 1.6. All charges in this statement are shown exclusive of VAT. Invoices will include VAT at the applicable rate.
- 1.7. The annexes that form part of this statement are also available in spreadsheet format. This spreadsheet contains supplementary information used for charging purposes and

¹ Charges can be positive or negative.

² Known as adjustment factors in the Distribution Licence and commonly referred to as Loss Adjustment Factors. The schedule of Line Loss Factors will be provided in a revised statement shortly after the Line Loss Factors for the relevant year have been successfully audited by Elexon.

³ The Distribution and Connection Use of System Agreement (DCUSA) available from <http://www.dcsa.co.uk/SitePages/Documents/DCUSA-Document.aspx>

a simple model to assist you to calculate charges. This spreadsheet can be downloaded from:

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

Validity period

- 1.8. This charging statement is valid for services provided from the effective from date stated on the front of this statement and remains valid until updated by a revised version or superseded by a statement with a later effective date.
- 1.9. When using this charging statement, care should be taken to ensure that the relevant statement or statements covering the period that is of interest are used.
- 1.10. Notice of any revision to the statement will be provided to Users of our Distribution System. The latest statements can be downloaded from:

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

Contact details

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

Charges Policy Manager

Northern Powergrid

Manor House

Station Road

New Penshaw

Houghton-le-Spring

DH4 7LA

e-mail:- UoS.Charges@northernpowergrid.com

- 1.12. All enquiries regarding connection agreements and 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.

The supercustomer and site-specific billing approaches

- 2.2. We utilise two billing approaches depending on the type of metering data received:
- (a) The 'Supercustomer' approach for Customers for whom we receive aggregated consumption data through Settlement; and
 - (b) The 'Site-specific' approach for Customers for whom we receive site-specific consumption data through Settlement.
- 2.3. We receive aggregated consumption data through Settlement for:
- (a) Domestic and non-domestic Customers for whom Non-Half Hourly (NHH) metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class A);
 - (b) Customers which are unmetered and are not settled as pseudo Half Hourly (HH) metered (i.e. Customers with MPANs which are registered to Measurement Class B);
 - (c) Domestic Customers for whom HH metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class F); and
 - (d) Non-domestic Customers for whom HH metering data is used in Settlement and which have whole current (WC) metering (i.e. Customers with MPANs which are registered to Measurement Class G).
- 2.4. We receive site specific consumption data through Settlement for:
- (a) Non-domestic Customers for whom HH metering data is used in Settlement and which have current transformer (CT) metering (i.e. Customers with MPANs which are registered to measurement class C or E); and
 - (b) Customers which are unmetered and settled as pseudo HH metered (i.e. Customers with MPANs which are registered to measurement class D).

Supercustomer billing and payment

- 2.5. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Aggregated DUoS Report' data flow.
- 2.6. Invoices are calculated on a periodic basis and sent to each User, for whom we transport electricity through our Distribution System. Invoices are reconciled, over a

period of approximately 14 months to reflect later and more accurate consumption figures.

- 2.7. The charges are applied on the basis of the LLFC assigned to the MPAN, and the units consumed within the time periods specified in this statement. All LLFCs are assigned at our sole discretion based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' if you believe the allocated LLFC or tariff is incorrect.

Supercustomer charges

- 2.8. Supercustomer charges include the following components:

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

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

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

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

- 2.12. Where an MPAN has an invalid Settlement combination, the 'Domestic Unrestricted' fixed and unit charge will be applied as default until the invalid combination is corrected. Where there are multiple SSC/Time Pattern Regime (TPR) combinations, the default 'Domestic Unrestricted' fixed and unit charge will be applied for each invalid SSC/TPR combination.

- 2.13. The time periods for unit charges where the Metering System is Measurement Class A or B are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a look-up table is provided in the spreadsheet that accompanies this statement⁴.

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

⁴ Northern Powergrid (Yorkshire) - 2020-21 Schedule of Charges and other tables

- 2.15. 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

- 2.16. The site-specific billing and payment approach makes use of HH metering data at premises level received through Settlement.
- 2.17. Invoices are calculated on a periodic basis and sent to each User, for whom we transport electricity through our Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment which may be necessary following the receipt of actual data from the User.
- 2.18. The charges are applied on the basis of the LLFC assigned to the MPAN (or the MSID for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement. Where MPANs have not been associated, for example when multiple points of connection fed from different sources are used for a single site, the relevant number of fixed charges will be applied.
- 2.19. All LLFCs are assigned at our sole discretion based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to section ‘Incorrectly Allocated Charges’ if you believe the allocated LLFC or tariff is incorrect.

Site-specific billed charges

- 2.20. Site-specific billed charges may include the following components:
- (a) a fixed charge, pence/MPAN/day or pence/MSID/day;
 - (b) a capacity charge, pence/kilovolt-ampere(kVA)/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
 - (c) an excess capacity charge, pence/kVA/day, if a site exceeds its MIC/MEC;
 - (d) unit charges, pence/kWh, more than one unit charge may be applied; and
 - (e) an excess reactive power charge, pence/kilovolt-ampere reactive hour(kVArh), for each unit in excess of the reactive charge threshold.
- 2.21. Users who wish to supply electricity to Customers for whom we receive site-specific data through Settlement (see paragraph 2.4) will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.
- 2.22. Fixed charges are generally levied on a pence per MPAN/MSID per day basis. Where two or more HH MPANs/MSIDs are located at the same point of connection (as identified in the Connection Agreement), with the same LLFC, and registered to the same Supplier, only one daily fixed charge will be applied.
- 2.23. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.

- 2.24. For LV and HV Designated Properties that utilise a combination of Intermittent and Non-Intermittent generation technologies metered through a single MPAN/MSID, we will allocate the tariff based on the dominant technology. The dominant technology will have a higher combined installed capacity as evidenced in ratings contained in the Connection Agreement.
- 2.25. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
- 2.26. 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.
- 2.27. Due to the seasonal nature of charges for Unmetered Supplies, changes between Measurement Classes B and D (or vice versa) shall not be agreed except with effect from 1 April in any charging year.

Time periods

- 2.28. 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.
- 2.29. 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.
- 2.30. The time periods for the application of unit charges to Unmetered Supply Exit Points that are pseudo HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.

Application of capacity charges

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

Chargeable capacity

- 2.32. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.33. 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.
- 2.34. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where the MIC/MEC is reduced, the new lower level will be agreed with reference to the level of the Customer's maximum import and/or export demand respectively. The new MIC/MEC will be applied from the start of the next billing period after the date that the request was received. It should be noted that, where a new lower level is

agreed, the original capacity may not be available in the future without the need for network reinforcement and associated charges.

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

Exceeded capacity

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

Demand exceeded capacity

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVAh)

RE = Reactive export (kVAh)

MIC = Maximum import capacity (kVA)

- 2.37. 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.
- 2.38. 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 (kVAh)

RE = Reactive export (kVAh)

MEC = Maximum export capacity (kVA)

- 2.39. 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.
- 2.40. 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

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

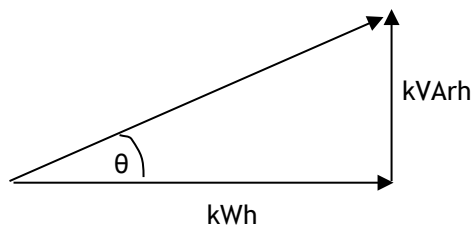
Minimum capacity levels

- 2.42. There is no minimum capacity threshold.

Application of charges for excess reactive power

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

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



- 2.45. 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)

- 2.46. 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.
- 2.47. The square root calculation will be to two decimal places.
- 2.48. 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)

- 2.49. 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.
- 2.50. 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.

Incorrectly allocated charges

- 2.52. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection, import/export details including multiple MPANs, metering information, and, for some tariffs, the metering location. Where an MPAN/MSID is used for export purposes in relation to an LV or HV Designated Property, the type of generation (Intermittent or Non-intermittent) also determines the allocation of charges.

- 2.53. We are responsible for deciding the voltage of connection. Generally, this is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected Customer.
- 2.54. The Supplier determines and provides us with the metering information and data. This enables us to allocate charges where there is more than one charge per voltage level. The metering information and data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When we are notified this has happened, we will change the allocation of charges accordingly.
- 2.55. If it has been identified that a charge may have been incorrectly allocated due to the metering information and/or data then a request for investigation should be made to the Supplier.
- 2.56. Where it has been identified that a charge may have been incorrectly allocated due to the wrong voltage of connection, import/export details or metering location, then a request to investigate the applicable charges should be made to us. Requests from persons other than the Customer or the current Supplier must be accompanied by a Letter of Authority from the Customer; the current Supplier must also acknowledge that they are aware a request has been made. Any request must be supported by an explanation of why it is believed that the current charge should be changed, along with supporting information including, where appropriate, photographs of metering positions or system diagrams. Any request to change the current charge that also includes a request for backdating must include justification as to why it is considered appropriate to backdate the change.
- 2.57. An administration charge (covering our reasonable costs) may be made if a technical assessment or site visit is required, but we will not apply any charge where we agree to the change request.
- 2.58. Where we agree that the current charge should be changed, we will then allocate the appropriate set of charges for the connection. Any adjustment will be applied from the date of the request, back to either the date of the incorrect allocation; or up to the maximum period specified by the Limitation Act (1980) in England and Wales, which covers a six year period from the date of request; whichever is the shorter.
- 2.59. Any credit or additional charge will be issued to the relevant Supplier(s) effective during the period of the change.
- 2.60. Should we reject the request (as per paragraph 2.55) a justification will be provided to the requesting party. We shall not unreasonably withhold or delay any decision on a request to change the charges applied and would expect to confirm our position on the request within three months of the date of request.

Generation charges for pre-2005 Designated EHV Properties

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

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

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

Provision of billing data

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

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

2.65. 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 D0036⁵ (as agreed with us). The data shall be e-mailed to:

Duos.billing@northernpowergrid.com

⁵ MRA Data Transfer Catalogue available from <https://dtc.mrasco.com/>

- 2.66. 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

- 2.67. We do not operate networks outside our Distribution Services Area.

Licensed distribution network operator charges

- 2.68. Licenced Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.
- 2.69. The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the 'All-the-way' charge and is dependent upon the voltage of connection of each embedded network to our Distribution System. The relevant charge structures are set out in Annex 4.
- 2.70. Where a NHH metered MPAN has an invalid settlement combination, the 'LDNO HV: Domestic Unrestricted' fixed and unit charge will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'LDNO HV: Domestic Unrestricted' fixed and unit charge will be applied for each invalid SSC/TPR combination.
- 2.71. 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.
- 2.72. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

Licence exempt distribution networks

- 2.73. The Electricity and Gas (Internal Market) Regulations 2011⁶ 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.
- 2.74. 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

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

‘third party access’. These embedded Customers will require an MPAN so that they can have their electricity supplied by a Supplier of their choice.

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

Full settlement metering

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

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

Difference metering

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

Gross settlement

2.79. Where one of our MPANs (prefix 23) is embedded within a licence exempt distribution network connected to our Distribution System, and a dispensation for difference metering is in place for settlement purposes, and we receive gross measurement data for the boundary MPAN, we will continue to charge the boundary MPAN Supplier for use of our Distribution System. No charges will be levied by us directly to the Customer or Supplier of the embedded MPAN(s) connected within the licence exempt distribution network.

- 2.80. 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:

- (h) be provided in a text file in the format of the D0036 MRA data flow;
- (i) the text file shall be emailed to Duos.billing@northernpowergrid.com;
- (j) the title of the email should also contain the phrase “gross data for difference metered private network” and contain the metering reference specified by us in place of the Settlement MPAN;
- (k) 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”.

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

3. Schedule of charges for use of the Distribution System

- 3.1. Tables listing the charges for use of our Distribution System are published in annexes to this document.
- 3.2. These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from:

<http://www.northernpowergrid.com/document-library/charges>
- 3.3. Annex 1 contains the charges applied to LV and HV Designated Properties.
- 3.4. Annex 2 contains the charges applied to Designated EHV Properties and charges applied to LDNOs with Designated EHV Properties connected to their Distribution Systems.
- 3.5. Annex 3 contains details of any preserved and additional charges that are valid at this time. Preserved charges are mapped to an appropriate charge and are closed to new Customers.
- 3.6. Annex 4 contains the charges applied to LDNOs in respect of LV and HV Designated Properties connected to their Distribution Systems.

4. Schedule of line loss factors

Role of line loss factors in the supply of electricity

- 4.1. Electricity entering or exiting our Distribution System is adjusted to take account of energy that is lost⁷ as it is distributed through the network. This adjustment does not affect distribution charges but is used in energy Settlement to take metered consumption to a notional Grid Supply Point so that Suppliers' purchases take account of the energy lost on the Distribution System.
- 4.2. We are responsible for calculating the Line Loss Factors (LLFs) and providing these to Elexon. Elexon is the company that manages the BSC.
- 4.3. LLFs are used to adjust the Metering System volumes to take account of losses on the Distribution System.

Calculation of line loss factors

- 4.4. LLFs are calculated in accordance with BSCP128 which sets out the procedures and principles with which our LLF methodology must comply. It also defines the procedure and timetable by which LLFs are reviewed and submitted.
- 4.5. LLFs are calculated for a set number of time periods during the year, using either a generic method or a site-specific method. The generic method is used for sites connected at LV or HV and the site-specific method is used for sites connected at EHV or where a request for site-specific LLFs has been agreed. Generic LLFs will be applied as a default to all new EHV sites until sufficient data is available for a site-specific calculation.
- 4.6. 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 website⁸ contains more information on LLFs.

Publication of line loss factors

- 4.8. The LLFs used in Settlement are published on the Elexon Portal website⁹. The website contains the LLFs in standard industry data formats and in a summary form. A user guide with details on registering and using the portal is also available.

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

⁸ The following page has links to BSCP128 and to our LLF methodology: <http://www.elexon.co.uk/reference/technical-operations/losses/>

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

- 4.9. BSCP128 sets out the timetable by which LLFs are submitted and audited. The submission and audit occurs between September and December in the year prior to the LLFs becoming effective. Only after the completion of the audit at the end of December and BSC approval are the final LLFs published.
- 4.10. As this charging statement is published a complete year before the LLFs for the charging year have been produced, Annex 5 is intentionally left blank. This statement will be reissued with Annex 5 populated once the LLFs have been calculated and audited. This should typically be more than three months prior to the statement coming into force.
- 4.11. When using the tables in Annex 5, reference should be made to the LLFC allocated to the MPAN to find the appropriate values.

5. Notes for Designated EHV Properties

EDCM nodal costs

- 5.1. A table is provided in the accompanying spreadsheet which shows the underlying Long Run Incremental Cost (LRIC) nodal costs used to calculate the current EDCM charges. This spreadsheet is available to download from our website:

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

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

Charges for new Designated EHV Properties

- 5.3. Charges for any new Designated EHV Properties calculated after publication of the current statement will be published on our website in an addendum to that statement as and when necessary. The addendum will include charge information of the type found in Annex 2, and LLFs as found in Annex 5.
- 5.4. The form of the addendum is detailed in Annex 6 of this statement.
- 5.5. The new Designated EHV Properties charges will be added to Annex 2 in the next full statement released.

Charges for amended Designated EHV Properties

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

Demand side management

- 5.7. For those premises where UoS is charged under the EDCM, some customers may be able to benefit from entering into a Demand Side Management (DSM) agreement with us.
- 5.8. DSM arrangements are based on a formal commitment by the customer to materially reduce their MIC in certain time periods, as determined by us, for active network management purposes other than normal planned or unplanned outages.

- 5.9. For new connections, the customer must make an express statement in their application that they have an interest in some, or all, of the import capacity for their intended connection or modified connection being interruptible for active network management purposes.
- 5.10. Where the customer enters into a DSM agreement by agreeing to reduce their MIC to meet the defined parameters in the agreement, reduced UoS charges will apply. The chargeable capacity will be equal to the MIC minus the capacity that is subject to restrictions under the DSM agreement. The scale of the reduction will vary by site and is linked to the LRIC element of the charge in line with the approved charging methodology.
- 5.11. Any reduction in UoS charges applicable to the customer will be assessed on a site-specific basis by us. Any customers who wish to enquire whether they can take advantage of DSM should in the first instance contact:

Charges Policy Manager

Manor House

Station Road

New Penshaw

Houghton-le-Spring

DH4 7LA

e-mail:- UoS.charges@northernpowergrid.com

6. Electricity distribution rebates

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

7. Accounting and administration services

- 7.1. We reserve the right to impose payment default remedies. The remedies are as set out in DCUSA where applicable or else as detailed in the following paragraphs.
- 7.2. If any invoices that are not subject to a valid dispute remain unpaid on the due date, late payment interest (calculated at base rate plus 8%) and administration charges may be imposed. In light of the COVID-19 pandemic, and Ofgem’s published statement of 2 June 2020 setting out arrangements to “relax network charge payment terms for suppliers”, eligible suppliers can apply for payment deferral terms for invoices dated between 2 June 2020 and 2 September 2020¹⁰.
- 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.

¹⁰ For more details and instruction on how to apply please see <https://www.energynetworks.org/electricity/regulation/supplier-credit.html>

Appendix 1 - Glossary of Terms

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

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

Term	Definition																																																																					
Distribution Connection and Use of System Agreement (DCUSA)	<p>The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners (OFTOs) of Great Britain.</p> <p>It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.</p>																																																																					
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="643 593 1380 1794"> <thead> <tr> <th data-bbox="643 593 715 654">ID</th> <th data-bbox="715 593 1002 654">Distribution Service Area</th> <th data-bbox="1002 593 1380 654">Company</th> </tr> </thead> <tbody> <tr><td>10</td><td>East of England</td><td>UK Power Networks</td></tr> <tr><td>11</td><td>East Midlands</td><td>Western Power Distribution</td></tr> <tr><td>12</td><td>London</td><td>UK Power Networks</td></tr> <tr><td>13</td><td>Merseyside and North Wales</td><td>Scottish Power</td></tr> <tr><td>14</td><td>Midlands</td><td>Western Power Distribution</td></tr> <tr><td>15</td><td>Northern</td><td>Northern Powergrid</td></tr> <tr><td>16</td><td>North Western</td><td>Electricity North West</td></tr> <tr><td>17</td><td>Scottish Hydro Electric (and embedded networks in other areas)</td><td>Scottish Hydro Electric Power Distribution plc</td></tr> <tr><td>18</td><td>South Scotland</td><td>Scottish Power</td></tr> <tr><td>19</td><td>South East England</td><td>UK Power Networks</td></tr> <tr><td>20</td><td>Southern Electric (and embedded networks in other areas)</td><td>Southern Electric Power Distribution plc</td></tr> <tr><td>21</td><td>South Wales</td><td>Western Power Distribution</td></tr> <tr><td>22</td><td>South Western</td><td>Western Power Distribution</td></tr> <tr><td>23</td><td>Yorkshire</td><td>Northern Powergrid</td></tr> <tr><td>24</td><td>All</td><td>Independent Power Networks</td></tr> <tr><td>25</td><td>All</td><td>ESP Electricity</td></tr> <tr><td>26</td><td>All</td><td>Energetics Electricity Ltd</td></tr> <tr><td>27</td><td>All</td><td>The Electricity Network Company Ltd</td></tr> <tr><td>29</td><td>All</td><td>Harlaxton Energy Networks</td></tr> <tr><td>30</td><td>All</td><td>Peel Electricity Networks Ltd</td></tr> <tr><td>31</td><td>All</td><td>UK Power Distribution Ltd</td></tr> <tr><td>32</td><td>All</td><td>Utility Distribution 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	30	All	Peel Electricity Networks Ltd	31	All	UK Power Distribution Ltd	32	All	Utility Distribution Networks
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Distribution Network Operator (DNO)	<p>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.</p>																																																																					

Term	Definition
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.
Distribution System	<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 Network	An electricity Distribution System operated by an LDNO and embedded within another Distribution System.
Engineering Recommendation P2/6	A document of the Energy Networks Association, which defines planning standards for security of supply and is referred to in Standard Licence Condition 24 of our Electricity Distribution Licence.
Entry Point	A boundary point at which electricity is exported onto a Distribution System from a connected installation or from another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).
Exit Point	A point of connection at which a supply of electricity may flow from the Distribution System to the Customer's installation or User's installation or the Distribution System of another person.
Extra-High Voltage (EHV)	Nominal voltages of 22kV and above.

Term	Definition
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.
Grid Supply Point (GSP)	A metered connection between the National Grid Electricity Transmission (NGET) system and the licensee's Distribution System at which electricity flows to or from the Distribution System.
GSP Group	A distinct electrical system that is supplied from one or more GSPs for which total supply into the GSP group can be determined for each half hour.
High Voltage (HV)	Nominal voltages of at least 1kV and less than 22kV.
Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover cannot be made available on demand, in accordance with the definitions in Engineering Recommendation P2/6.
Invalid Settlement Combination	A settlement combination that is not recognised as a valid combination in market domain data - see https://www.elexonportal.co.uk/MDDVIEWER .
kVA	Kilovolt ampere.
kVArh	Kilovolt ampere reactive hour.
kW	Kilowatt.
kWh	Kilowatt hour (equivalent to one "unit" of electricity).
Licensed Distribution Network Operator (LDNO)	The holder of a Licence to distribute electricity in Great Britain.
Line Loss Factor (LLF)	The factor that is used in Settlement to adjust the metering system volumes to take account of losses on the distribution system.
Line Loss Factor Class (LLFC)	An identifier assigned to an SVA metering system which is used to assign the LLF and use of system charges.
Load Factor	$\frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data used by all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.

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

Term	Definition
Master Registration Agreement (MRA)	The Master Registration Agreement (MRA) provides a governance mechanism to manage the processes established between electricity suppliers and distribution companies to enable electricity suppliers to transfer customers. It includes terms for the provision of Metering Point Administration Services (MPAS) Registrations.
Nested Networks	This refers to a situation where there is more than one level of Embedded Network and therefore nested Distribution Systems between LDNOs (e.g. host DNO→primary nested DNO→ secondary nested DNO→customer).
Non-Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can be made available on demand, in accordance with the definitions in Engineering Recommendation P2/6.
Ofgem	Office of Gas and Electricity Markets - Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Profile Class (PC)	A categorisation applied to NHH MPANs and used in Settlement to group customers with similar consumption patterns to enable the calculation of consumption profiles.
Settlement	The determination and settlement of amounts payable in respect of charges (including reconciling charges) in accordance with the BSC.
Settlement Class (SC)	The combination of Profile Class, Line Loss Factor Class, Time Pattern Regime and Standard Settlement Configuration, by Supplier within a GSP group and used for Settlement.
Standard Settlement Configuration (SSC)	A standard metering configuration relating to a specific combination of Time Pattern Regimes.
Supercustomer	The method of billing Users for use of system on an aggregated basis, grouping together consumption and standing charges for all similar NHH metered Customers or aggregated HH metered Customers.
Supercustomer DUoS Report	A report of profiled data by Settlement Class providing counts of MPANs and units consumed.
Supplier	An organisation with a supply licence for electricity supplied to and/or exported from a metering point.
Supplier Volume Allocation (SVA)	As defined in the BSC.
Time Pattern Regime (TPR)	The pattern of switching behaviour through time that one or more meter registers follow.

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

Appendix 2 - Guidance notes¹¹

Background

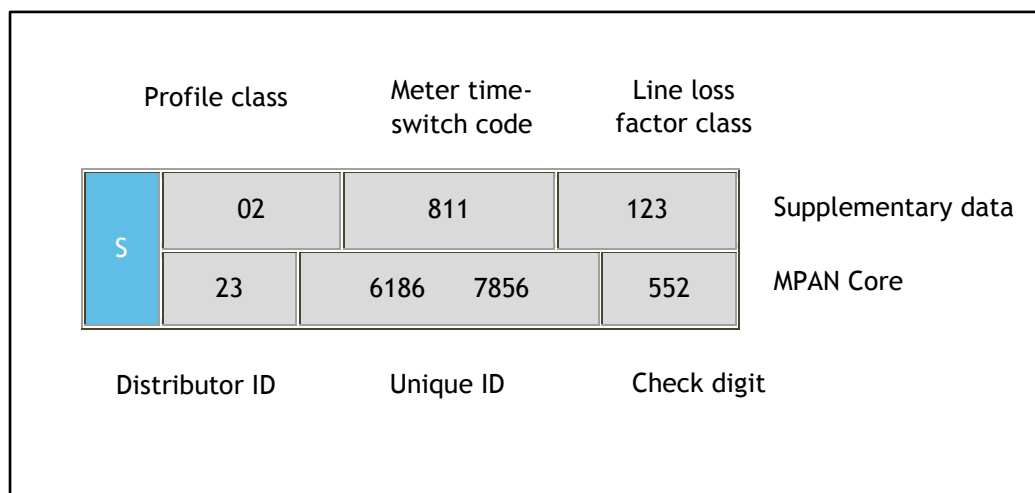
- 1.1. The electricity bill from your Supplier contains an element of charge to cover electricity distribution costs. This distribution charge covers the cost of operating and maintaining a safe and reliable Distribution System that forms the ‘wires’ that transport electricity between the national transmission system and end users such as homes and businesses. Our Distribution System includes overhead lines, underground cables, as well as substations and transformers.
- 1.2. In most cases, your Supplier is invoiced for the distribution charge and this is normally part of your total bill. In some cases, for example business users, the Supplier may pass through the distribution charge as an identifiable line item on the electricity bill.
- 1.3. Where electricity is generated at a premises your Supplier may receive a credit for energy that is exported on to the Distribution System. These credits are intended to reflect that the exported generation may reduce the need for traditional demand led reinforcement of the Distribution System.
- 1.4. Understanding your distribution charges could help you reduce your costs and increase your credits. This is achieved by understanding the components of the charge to help you identify whether there may be opportunities to change the way you use the Distribution System.

Meter point administration

- 1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a school which may have an MPAN for the main supply and an MPAN for catering).
- 1.6. The full MPAN is a 21 digit number, preceded by an ‘S’ and includes supplementary data. The MPAN applicable to a supply point is found on the electricity bill from your Supplier. This number enables you to establish who your electricity distributor is, details of the characteristics of the supply and importantly the distribution charges that are applicable to your premises.
- 1.7. The 21-digit number is normally presented in two sections as shown in the following diagram. The top section is supplementary data which gives information about the characteristics of supply, while the bottom ‘core’ is the unique identifier.

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

Full MPAN diagram example



- 1.8. Generally, you will only need to know the Distributor ID and LLFC to identify the distribution charges for your premises. However, there are some premises where charges are specific to that site. In these instances the charges are identified by the MPAN core. The Distributor ID for Northern Powergrid 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:
- (a) '01' Domestic customers with unrestricted supply
 - (b) '02' Domestic customers with restricted load, for example off-peak heating
 - (c) '03' Non-domestic customers with unrestricted supply
 - (d) '04' Non-domestic customers with restricted load, for example off-peak heating
 - (e) '05' Non-domestic maximum demand customers with a Load Factor of less than 20%
 - (f) '06' Non-domestic maximum demand customers with a Load Factor between 20% and 30%
 - (g) '07' Non-domestic maximum demand customers with a Load Factor between 30% and 40%
 - (h) '08' Non-domestic maximum demand customers with a Load Factor over 40% or non-half-hourly metered generation customers
 - (i) '00' Half-hourly metered demand and generation customers
- 1.10. Unmetered Supplies will be allocated to profile class 01, 08 or 00 depending on the type of load or the measurement method of the load.

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

Your charges

- 1.12. All distribution charges that relate to our Distributor ID 23 are provided in this statement.
- 1.13. You can identify your charges by referencing your LLFC, from Annex 1. If the MPAN is for a Designated EHV Property then the charges will be found in Annex 2. In a few instances, the charges may be contained in Annex 3 or Annex 6. When identifying charges in Annex 2, please note that some LLFCs have more than one charge. In this instance you will need to select the correct charge by cross referencing with the MPAN core provided in the table.
- 1.14. Once you have identified which charge structure applies to your MPAN then you will be able to calculate an estimate of your distribution charge using the calculator provided in the spreadsheet 'Schedule of charges and other tables' found in the sheet called 'Charge Calculator'. This spreadsheet can be downloaded from our website <http://www.northernpowergrid.com/document-library/charges>.

Reducing your charges

- 1.15. The most effective way to reduce your energy charges is to reduce your consumption by switching off or using more energy efficient appliances. However, there are also other potential opportunities to reduce your distribution charges; for example, it may be beneficial to shift demand or generation to a better time period. Demand use is likely to be cheaper outside the peak periods and generation credits more beneficial during peak periods, although the ability to directly benefit will be linked to the structure of your supply charges.
- 1.16. The calculator mentioned above provides the opportunity to establish a forecast of the change in distribution charges that could be achieved if you are able to change any of the consumption related inputs.

Reactive power and reactive power charges

- 1.17. Reactive power is a separately charged component of connections that are half-hourly metered. Reactive power charges are generally avoidable if 'best practice' design of the properties' electrical installation has been provided in order to maintain a power factor between 0.95 and unity at the Metering Point.
- 1.18. Reactive Power (kVAr) is the difference between working power (active power measured in kW) and total power consumed (apparent power measured in kVA).

Essentially it is a measure of how efficiently electrical power is transported through an electrical installation or a Distribution System.

- 1.19. Power flowing with a power factor of unity results in the most efficient loading of the Distribution System. Power flowing with a power factor of less than 0.95 results in much higher losses in the Distribution System, a need to potentially provide higher capacity electrical equipment and consequently a higher bill for you the consumer. A comparatively small improvement in power factor can bring about a significant reduction in losses since losses are proportional to the square of the current.
- 1.20. Different types of electrical equipment require some 'reactive power' in addition to 'active power' in order to work effectively. Electric motors, transformers and fluorescent lighting, for example, may produce poor power factors due to the nature of their inductive load. However, if good design practice is applied then the poor power factor of appliances can be corrected as near as possible to source. Alternatively, poor power factor can be corrected centrally near to the meter.
- 1.21. There are many advantages that can be achieved by correcting poor power factor. These include: reduced energy bills through lower reactive charges, lower capacity charges and reduced power consumption and reduced voltage drop in long cable runs.

Site-specific EDCM charges

- 1.22. A site classified as a Designated EHV Property is subject to a locational-based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use one of two approved approaches: Long Run Incremental Cost (LRIC) or Forward Cost Pricing (FCP); we use the LRIC methodology. The EDCM will apply to Customers connected at Extra-High Voltage or connected at High Voltage and metered at a high voltage substation.
- 1.23. EDCM charges and credits are site-specific, reflecting the degree to which the local and higher voltage networks have the capacity to serve more demand or generation without the need to upgrade the electricity infrastructure. The charges also reflect the networks specifically used to deliver the electricity to the site as well as the usage at the site. Generators with non-intermittent output and deemed to be providing beneficial support to our networks may qualify to receive credit.
- 1.24. The charges under the EDCM comprise of the following individual components:
 - a) Fixed charge (pence/MPAN/day) - This charge recovers operational costs associated with those connection assets that are provided for the 'sole' use of the customer. The value of these assets is used as a basis to derive the charge.
 - b) Capacity charge (pence/kVA/day) - This charge comprises the relevant LRIC component, the National Grid Electricity Transmission cost and other regulated costs.

Capacity charges are levied on the MIC, MEC, and any exceeded capacity. You may wish to review your MIC or MEC periodically to ensure it remains appropriate for your needs as you may be paying for more capacity than you require. If you wish to make changes contact us via the details in section 1.

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

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

c) Super-red unit charge (pence/kWh) - This charge recovers the remote LRIC component. The charge is positive for import and negative for export which means you can either reduce your charges by minimising consumption or increasing export at those times. The charge is applied to consumption during the Super-red time period as detailed in Annex 2.

- 1.25. Future charge rates may be affected by consumption during the Super-red period. Therefore reducing consumption in the Super-red time period may be beneficial.
- 1.26. Reactive Power - The EDCM does not include a separate charge component for any reactive power flows (kVAr) for either demand or generation. However, the EDCM charges do reflect the effect on the network of the customer's power factor, for example unit charges can increase if your site power factor is poor (lower than 0.95). Improving your site's power factor will also reduce the maximum demand (kVA) for the same power consumed in kW thus providing scope to reduce your agreed capacity requirements.

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2020 - Final LV and HV charges

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

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

Tariff name	Open LLFCs	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVarh	Closed LLFCs
Domestic Unrestricted	100	1	1.885			6.81				999
Domestic Two Rate	120	2	2.147	1.052		6.81				
Domestic Off Peak (related MPAN)	111	2	1.217							
Small Non Domestic Unrestricted	240	3	2.155			7.23				
Small Non Domestic Two Rate	246	4	2.361	1.120		7.23				
Small Non Domestic Off Peak (related MPAN)	214	4	1.266							
LV Medium Non-Domestic	290	5-8	2.106	1.033		44.69				
LV Sub Medium Non-Domestic	0	5-8	1.663	1.002		19.91				
HV Medium Non-Domestic	580	5-8	1.598	0.985		301.16				
LV Network Domestic	279	0	5.121	1.762	1.024	6.81				
LV Network Non-Domestic Non-CT	299	0	6.219	1.975	1.043	7.23				
LV HH Metered	281	0	4.197	1.565	1.006	19.91	1.40	2.95	0.140	
LV Sub HH Metered	471	0	3.533	1.405	0.990	19.91	1.58	2.46	0.089	
HV HH Metered	581	0	2.840	1.247	0.975	192.18	1.91	3.05	0.060	
NHH UMS category A	814	8	1.671							
NHH UMS category B	815	1	1.775							
NHH UMS category C	816	1	2.454							
NHH UMS category D	817	1	1.620							
LV UMS (Pseudo HH Metered)	813 & 913	0	11.700	1.757	1.025					
LV Generation NHH or Aggregate HH	20	8&0	(0.553)							
LV Sub Generation NHH	30	8	(0.491)							
LV Generation Intermittent	22	0	(0.553)						0.104	
LV Generation Intermittent no RP charge	222	0	(0.553)							
LV Generation Non-Intermittent	24	0	(3.157)	(0.613)	(0.054)				0.104	
LV Generation Non-Intermittent no RP charge	224	0	(3.157)	(0.613)	(0.054)					
LV Sub Generation Intermittent	23	0	(0.491)						0.098	
LV Sub Generation Intermittent no RP charge	223	0	(0.491)							
LV Sub Generation Non-Intermittent	25	0	(2.824)	(0.540)	(0.047)				0.098	
LV Sub Generation Non-Intermittent no RP charge	225	0	(2.824)	(0.540)	(0.047)					
HV Generation Intermittent	26	0	(0.345)			115.34			0.081	
HV Generation Intermittent no RP charge	226	0	(0.345)			115.34				
HV Generation Non-Intermittent	28	0	(2.072)	(0.358)	(0.030)	115.34			0.081	
HV Generation Non-Intermittent no RP charge	228	0	(2.072)	(0.358)	(0.030)	115.34				

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 2020 - 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)	0.600		8.03	8.03				
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038				EHV Site Specific (LLFC 751)	0.017	4,709.47	2.05	2.05				
	753	235655555010		90	2394000039650	EHV Site Specific (LLFC 753 & 90)	0.071	5,628.66	2.48	2.48		93.81	0.05	0.05
	754	2356555554017 2380002015807		82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)	0.594	6,029.12	1.54	1.54		301.46	0.05	0.05
	755	2316521850010		76	2394000039641	EHV Site Specific (LLFC 755 & 76)	0.073	2,601.12	2.16	2.16		260.11	0.05	0.05
	756	2346540436013		75	2394000039679	EHV Site Specific (LLFC 756 & 75)	0.018	5,323.23	1.52	1.52		399.24	0.05	0.05
	757	2336566756217		95	2394000060226	EHV Site Specific (LLFC 757 & 95)		346.71	0.97	0.97	(0.014)	729.88	0.05	0.05
	758	TBC				EHV Site Specific (LLFC 758)			0.96	0.96				
	804	MSID 0645		800	MSID 0645	EHV Site Specific (LLFC 804 & 800)	0.031	9,617.87	2.28	2.28	(0.026)	1,659.71	0.05	0.05
	760	2300000880966 2376509001013		60	2300000233736 2300000880975	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		841.04	1.75	1.75				
	761	2300000526686 2336518071011				EHV Site Specific (LLFC 761)	0.002	367.26	0.94	0.94				
	762	2300000457400		62	2300000457410	EHV Site Specific - Generation Exempt (LLFC 762 & 62)	0.010	18.59	1.07	1.07				
	763	MSID 7376		80	MSID 7377	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.038	142.37	0.94	0.94				
	764	2300000233959 2300000233968 2300000233977				EHV Site Specific (LLFC 764)	0.014	3,867.40	0.76	0.76				
	765	2300000457084 2390000010840 2390000010859				EHV Site Specific (LLFC 765)	0.706	2,119.78	2.43	2.43				
	766	2376508030013 2376508030022		66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		74.82	0.96	0.96				
	767	MSID 7021		67	MSID 7020	EHV Site Specific (LLFC 767 & 67)		229.21	1.01	1.01	(0.002)	5,673.00	0.05	0.05
	769	2346526241119		128	2394000133317	EHV Site Specific (LLFC 769 & 128)			1.09	1.09			0.05	0.05
	771	2366591376117		92	2394000019176	EHV Site Specific (LLFC 771 & 92)			0.97	0.97			0.05	0.05
	772	2366591373116				EHV Site Specific (LLFC 772)			2.98	2.98				
	773	2366591486111 2380002104680		65	2394000117991	EHV Site Specific (LLFC 773 & 65)			1.69	1.69			0.05	0.05
	774	2326522910011 2326522910020		74	2394000002925 2394100008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.058	72.30	1.27	1.27				
	775	2380000531989		87	2394000024440	EHV Site Specific (LLFC 775 & 87)	0.056	276.61	0.95	0.95	(0.176)	1,058.65	0.05	0.05
	777	2300000233596		77	2300000233610	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.234	2.89	0.95	0.95				
	778	2300000443816		78	2300000443825	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		9.33	2.57	2.57		761.60	0.05	0.05
	780	2380000825051				EHV Site Specific (LLFC 780)	0.013	987.75	0.57	0.57				
	781	2300000790540		81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)		71.54	1.00	1.00				
	782	2300001016288 2300001016297				EHV Site Specific (LLFC 782)	0.535	367.26	2.74	2.74				
	783	2300000974268		83	2300000974408 2394000113560 2394000135253	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.019	3.66	1.18	1.18				
	784	2300001007247		84	2300001007256	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.036	0.45	1.27	1.27				
	785	2380000151720		85	2394000011646	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.131	1.28	0.98	0.98				

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

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
	786	2380000148115		86	2391100013704 2394000011502	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.86	0.84	0.84				
	787	2380000123421 2380000123430		129	2394000134454 2394000134463	EHV Site Specific (LLFC 787 & 129)		852.29	1.92	1.92		224.30	0.05	0.05
	788	2380000654644		88	2394000027673	EHV Site Specific (LLFC 788 & 88)	0.006	32.95	1.18	1.18	(0.256)	878.73	0.05	0.05
	789	2380001118812		89	2394000043364 2394000138110	EHV Site Specific (LLFC 789 & 89)	0.003	21.15	2.21	2.21	(0.132)	890.54	0.05	0.05
	790	2380001476585		94	2394000056790	EHV Site Specific (LLFC 790 & 94)	0.015	23.36	1.01	1.01		1,573.60	0.05	0.05
	791	2380001494334		93	2394000058333	EHV Site Specific (LLFC 791 & 93)	0.017	3.57	1.08	1.08	(0.163)	180.06	0.05	0.05
	793	2380001252829 2380001252838 2380001767827		91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)	0.237	112.91	1.01	1.01		1,918.78	0.05	0.05
	794	2380001458911		97	2394000055174	EHV Site Specific (LLFC 794 & 97)	0.478	378.48	1.00	1.00		11,951.96	0.05	0.05
	795	2380001532167 2380001532176				EHV Site Specific (LLFC 795)	0.086	1,401.30	1.12	1.12				
	796	2380001635401		98	2394000072198	EHV Site Specific (LLFC 796 & 98)		65.63	0.53	0.53		6,590.16	0.05	0.05
	831	2316530305110 2316530305129				EHV Site Specific (LLFC 831)	3.998	110.94	6.90	6.90				
	832	2316541311014				EHV Site Specific (LLFC 832)	1.513	110.94	3.06	3.06				
	833	2326511015014 2326511015023				EHV Site Specific (LLFC 833)	2.751	110.94	4.69	4.69				
	834	2300000456903 2300000516605 2326531140128				EHV Site Specific (LLFC 834)	0.130	166.41	3.96	3.96				
	835	2300000473625 2336505790019				EHV Site Specific (LLFC 835)	0.862	110.94	7.37	7.37				
	836	2300000473616 2336506255013				EHV Site Specific (LLFC 836)	0.577	110.94	7.69	7.69				
	837	2300000473634 2336526022010		34	2394000106234	EHV Site Specific (LLFC 837 & 34)	0.119	75.75	2.09	2.09	(0.203)	35.19	0.05	0.05
	838	2300000584925 2336559992019				EHV Site Specific (LLFC 838)	0.151	110.94	1.90	1.90				
	839	2300000233833 2336566356211		68	2300000233898	EHV Site Specific (LLFC 839 & 68)	0.020	46.72	1.04	1.04	(0.020)	64.22	0.05	0.05
	840	2336566566018				EHV Site Specific (LLFC 840)	0.500	55.47	4.46	4.46				
	841	2300000539365 2300000539374 2336590660028 2336590660037				EHV Site Specific (LLFC 841)	0.187	221.88	7.48	7.48				
	842	TBC				EHV Site Specific (LLFC 842)	0.018	110.94	1.70	1.70				
	843	TBC				EHV Site Specific (LLFC 843)	0.488	55.47	1.90	1.90				
	844	2356530330014 2356530330023				EHV Site Specific (LLFC 844)	0.605	110.94	6.46	6.46				
	845	2356562495011				EHV Site Specific (LLFC 845)	0.759	55.47	3.39	3.39				
	846	2300000601321				EHV Site Specific (LLFC 846)	1.491	55.47	5.69	5.69				
	847	2366560261014				EHV Site Specific (LLFC 847)	0.351	55.47	3.19	3.19				
	848	2300000457377 2366560264112				EHV Site Specific (LLFC 848)	0.351	110.94	7.43	7.43				
	849	2300000652292 2376503256010				EHV Site Specific (LLFC 849)	0.010	110.94	2.50	2.50				
	850	2300000647051 2300000647060 2376552920013 2376552920022				EHV Site Specific (LLFC 850)	1.012	221.88	3.05	3.05				
	851	2376550825013 2380000000543 2380000004097				EHV Site Specific (LLFC 851)	0.236	221.88	5.69	5.69				
	852	2380000257932		71	2394000016040	EHV Site Specific (LLFC 852 & 71)		3.11	0.97	0.97		52.36	0.05	0.05
	853	2380000428837 2380000428846				EHV Site Specific (LLFC 853)	0.015	110.94	1.48	1.48				
	854	2380000476088		72	2394000022132	EHV Site Specific (LLFC 854 & 72)		1.29	0.98	0.98		54.18	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)
	855	2380000724195 2380001078977 2380001078986 2380001078995 2380001079001 2380001079321				EHV Site Specific (LLFC 855)	0.005	332.82	4.01	4.01				
	856	2380001519750 2380001519760 2380001519779 2380001519788				EHV Site Specific (LLFC 856)	0.103	6,957.10	1.46	1.46				
	857	2300000526046				EHV Site Specific (LLFC 857)	1.603	55.47	4.88	4.88				
	858	2326526290016 2326526290025 2380002292920				EHV Site Specific (LLFC 858)	1.660	110.94	2.29	2.29				
	859	2336525711011 2336525711020				EHV Site Specific (LLFC 859)	0.050	110.94	2.68	2.68				
	860	2336526332017 2336526332026				EHV Site Specific (LLFC 860)	0.114	221.88	1.89	1.89				
	861	2300000493180 2300000552125 2336552115017 2336552115026				EHV Site Specific (LLFC 861)	0.055	221.88	4.27	4.27				
	862	2300000234163 2300000234172 2336590770013 2336590770022				EHV Site Specific (LLFC 862)	0.056	221.88	4.01	4.01				
	863	2300000234066 2300000234075 2300000234084 2336590810010				EHV Site Specific (LLFC 863)	0.369	221.88	5.21	5.21				
	864	2300000478970				EHV Site Specific (LLFC 864)	0.154	55.47	1.78	1.78				
	865	2346530035017 2346530035026				EHV Site Specific (LLFC 865)	0.534	110.94	5.39	5.39				
	867	2346534433019 2346534433028				EHV Site Specific (LLFC 867)	0.226	110.94	4.42	4.42				
	868	2356530030015 2356530030024				EHV Site Specific (LLFC 868)	0.015	110.94	3.12	3.12				
	869	2356530321010 2356530321029				EHV Site Specific (LLFC 869)	0.605	110.94	5.72	5.72				
	870	2356530620210 2356530620229		36	2394000129436	EHV Site Specific (LLFC 870 & 36)	0.021	89.70	1.04	1.04	(0.021)	132.18	0.05	0.05
	871	2366540061017 2366540061026				EHV Site Specific (LLFC 871)	0.628	110.94	3.39	3.39				
	872	2300000674055 2300000674064				EHV Site Specific (LLFC 872)	0.003	110.94	3.88	3.88				
	873	230000077530 2366540110116				EHV Site Specific (LLFC 873)	0.007	110.94	2.11	2.11				
	874	2300000542828		32	2300000542819	EHV Site Specific (LLFC 874 & 32)		2.02	2.28	2.28		53.45	0.05	0.05
	875	2366560263119				EHV Site Specific (LLFC 875)	0.351	110.94	2.82	2.82				
	876	2300000699565				EHV Site Specific (LLFC 876)	0.186	110.94	5.41	5.41				
	877	2366591617013				EHV Site Specific (LLFC 877)	1.872	110.94	7.00	7.00				
	880	2300000792050				EHV Site Specific (LLFC 880)	0.137	110.94	3.16	3.16				
	881	2300000634415 2376552766015				EHV Site Specific (LLFC 881)	0.137	110.94	4.09	4.09				
	882	2300000826383		69	2300000930377	EHV Site Specific (LLFC 882 & 69)	2.187	257.57	1.17	1.17	(2.187)	1,915.95	0.05	0.05
	883	2376503230011 2376508010017 2390000002459				EHV Site Specific (LLFC 883)	0.233	110.94	3.35	3.35				
	884	2300000233754				EHV Site Specific (LLFC 884)	0.014	55.47	3.30	3.30				
	886	2380001187667				EHV Site Specific (LLFC 886)	0.151	55.47	2.07	2.07				

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)
	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658				EHV Site Specific (LLFC 888)	0.261	277.35	1.93	1.93				
	889	2380001564275		70	2394000039590	EHV Site Specific (LLFC 889 & 70)	0.043	1.40	1.06	1.06	(0.043)	54.07	0.05	0.05
	797	2390000079381		99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.434	1.34	2.19	2.19				
	798	2380001746400		61	2394000083311	EHV Site Specific (LLFC 798 & 61)		39.61	1.01	1.01		3,200.55	0.05	0.05
	799	2380001812550		51	2394000089457	EHV Site Specific (LLFC 799 & 51)	0.009	26.26	1.01	1.01	(0.058)	2,625.69	0.05	0.05
	821	2380001851381		52	2394000093027	EHV Site Specific (LLFC 821 & 52)	0.114	2.71	1.52	1.52		180.91	0.05	0.05
	822	2380001883036 2380001883045		53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)	0.113	8.49	1.46	1.46		358.77	0.05	0.05
	823	2380001877557		54	2394000097068	EHV Site Specific (LLFC 823 & 54)	0.309	2.57	4.46	4.46		181.06	0.05	0.05
	824	MSID 7275		55	MSID 7275	EHV Site Specific (LLFC 824 & 55)		25.58	0.97	0.97		882.43	0.05	0.05
	826	2380001874087		57	2394000094590	EHV Site Specific (LLFC 826 & 57)	0.107	41.14	1.55	1.55		2,608.69	0.05	0.05
	866	2346534400013 2346534400022				EHV Site Specific (LLFC 866)	0.557	55.47	2.32	2.32				
	827	2380001838371		58	2394000091952	EHV Site Specific (LLFC 827 & 58)	0.005	1.31	1.29	1.29	(0.055)	182.32	0.05	0.05
	768	2380001882798		59	2394000095804	EHV Site Specific (LLFC 768 & 59)	0.017	2.83	1.05	1.05		180.80	0.05	0.05
	801	2380001905070		105	2394000098805	EHV Site Specific (LLFC 801 & 105)	0.376	8.36	1.09	1.09		529.94	0.05	0.05
	792	2380001951360		96	2394000102693	EHV Site Specific (LLFC 792 & 96)		35.51	0.50	0.50		2,915.59	0.05	0.05
	806	2380002166640		109	2394000122500	EHV Site Specific (LLFC 806 & 109)	0.021	46.91	1.04	1.04		1,717.27	0.05	0.05
	803	2380001909066		107	2394000099074	EHV Site Specific (LLFC 803 & 107)		4.27	1.09	1.09		534.03	0.05	0.05
	805	2380001989309		108	2394000107353	EHV Site Specific (LLFC 805 & 108)	0.172	26.47	1.78	1.78		3,714.85	0.05	0.05
	825	2380002022460		56	2394000110630	EHV Site Specific (LLFC 825 & 56)	0.005	19.25	1.19	1.19		554.03	0.05	0.05
	802	2380001909075 2380001909084		106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	0.103	358.94	0.83	0.83	(0.103)	1,036.13	0.05	0.05
	807	2380002032360		63	2394000111660	EHV Site Specific (LLFC 807 & 63)		170.11	0.75	0.75		1,414.64	0.05	0.05
	810	2380002115663		110	2394000118693	EHV Site Specific (LLFC 810 & 110)	0.036	562.57	0.83	0.83	(0.036)	6,582.31	0.05	0.05
	885	2366560312013		31	2300000542785	EHV Site Specific (LLFC 885 & 31)		72.73	1.37	1.37		2,870.82	0.05	0.05
	829	2380002197132		43	2394000124303	EHV Site Specific (LLFC 829 & 43)	0.680	2.19	1.33	1.33		181.44	0.05	0.05
	830	2380002155666		44	2394000121845	EHV Site Specific (LLFC 830 & 44)	0.075	29.32	1.31	1.31	(0.438)	154.31	0.05	0.05
	727	2380002198730		46	2394000124400	EHV Site Specific (LLFC 727 & 46)	0.491	55.01	1.25	1.25		6,062.49	0.05	0.05
	728	2380002182970		47	2394000123434	EHV Site Specific (LLFC 728 & 47)	0.239	116.78	1.01	1.01		8,399.65	0.05	0.05
	729	2380002286980		48	2394000130956	EHV Site Specific (LLFC 729 & 48)		58.14	0.98	0.98		3,404.57	0.05	0.05
	730	2380002248104		49	2394000127847	EHV Site Specific (LLFC 730 & 49)	0.146	106.30	1.21	1.21		4,928.50	0.05	0.05
	809	2380002046577		64	2394000113278	EHV Site Specific (LLFC 809 & 64)		46.91	1.89	1.89		2,320.60	0.05	0.05
	731	2380002277531		50	2394000129589	EHV Site Specific (LLFC 731 & 50)	0.008	7.14	2.77	2.77		3,181.34	0.05	0.05
	732	2380002328451		114	2394000132642	EHV Site Specific (LLFC 732 & 114)	0.058	16.47	1.71	1.71		772.80	0.05	0.05
	733	2380002296933		115	2394000131490	EHV Site Specific (LLFC 733 & 115)		29.31	1.03	1.03		1,042.32	0.05	0.05
	734	2380002293199		116	2394000131338	EHV Site Specific (LLFC 734 & 116)	0.001	13.45	1.50	1.50	(0.256)	377.54	0.05	0.05
	735	2380002270518		117	2394000129250	EHV Site Specific (LLFC 735 & 117)	0.231	22.03	1.10	1.10		581.61	0.05	0.05
	736	2380002293170		118	2394000131329	EHV Site Specific (LLFC 736 & 118)		114.92	0.75	0.75	(0.002)	677.45	0.05	0.05
	738	2380002299970		124	2394000131773	EHV Site Specific (LLFC 738 & 124)	0.004	103.53	0.84	0.84		4,287.70	0.05	0.05
	739	2380002287210		125	2394000130965	EHV Site Specific (LLFC 739 & 125)		1.44	1.71	1.71		182.19	0.05	0.05
	737	2380002287229		119	2394000130974	EHV Site Specific (LLFC 737 & 119)		1.44	2.09	2.09		182.19	0.05	0.05
	740	2380002309867		126	2394000132094	EHV Site Specific (LLFC 740 & 126)	0.358	45.01	1.64	1.64	(0.471)	1,031.58	0.05	0.05
	745	2380002315851		127	2394000132252	EHV Site Specific (LLFC 745 & 127)		450.42	0.51	0.51		4,504.24	0.05	0.05
	892	2300000839364				EHV Site Specific (LLFC 892)	1.660	55.47	2.06	2.06				
	893	2300000646962 2300000647006				EHV Site Specific (LLFC 893)		110.94	2.14	2.14				
	746	2380002366660 2380002366670		511	2394000133831 2394000133840	EHV Site Specific (LLFC 746 & 511)	0.008	5,115.81	1.23	1.23	(0.134)	2,214.71	0.05	0.05
	747	2380002391996		512	2394000134668	EHV Site Specific (LLFC 747 & 512)		122.42	1.01	1.01		2,938.19	0.05	0.05
	748	2380002397394		513	2394000134914	EHV Site Specific (LLFC 748 & 513)		28.33	1.73	1.73	(0.002)	2,922.77	0.05	0.05
	749	2380002410098		514	2394000135129	EHV Site Specific (LLFC 749 & 514)		54.61	1.73	1.73		737.76	0.05	0.05
	901	2380002419106		515	2394000135305	EHV Site Specific (LLFC 901 & 515)	0.015	6.32	0.95	0.95	(0.049)	177.31	0.05	0.05
	902	TBC		516	TBC	EHV Site Specific (LLFC 902 & 516)		49.15	0.23	0.23		1,753.48	0.05	0.05
	894	2300000444962 2366531830013				EHV Site Specific (LLFC 894)	1.491	110.94	3.32	3.32				
	903	2380002478955				EHV Site Specific (LLFC 903)		538.29	2.45	2.45				
	904	2380002478973		517	2394000136976	EHV Site Specific (LLFC 904 & 517)	0.001	6.98	2.39	2.39	(0.002)	176.65	0.05	0.05
	905	2380002483290		518	2394000137038	EHV Site Specific (LLFC 905 & 518)	0.015	4.39	2.39	2.39	(0.015)	179.24	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)
	895	2376502990014 2376502990023				EHV Site Specific (LLFC 895)	0.323	110.94	5.61	5.61				
	906	2380002504018		519	2394000137960	EHV Site Specific (LLFC 906 & 519)		23.27	2.01	2.01		647.84	0.05	0.05
	907	TBC		520	TBC	EHV Site Specific (LLFC 907 & 520)		901.40	0.23	0.23		901.23	0.05	0.05
	908	2380002530996		521	2394000138583	EHV Site Specific (LLFC 908 & 521)	0.015	4.39	2.39	2.39	(0.015)	179.24	0.05	0.05

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2020 - 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)	0.600		8.03	8.03
	751	2300000702517 2300000702526 2300000702535 2376555002010 2376555002029 2376555002038	EHV Site Specific (LLFC 751)	0.017	4,709.47	2.05	2.05
	753	2356555555010	EHV Site Specific (LLFC 753 & 90)	0.071	5,628.66	2.48	2.48
	754	2356555554017 2380002015807	EHV Site Specific (LLFC 754 & 82)	0.594	6,029.12	1.54	1.54
	755	2316521850010	EHV Site Specific (LLFC 755 & 76)	0.073	2,601.12	2.16	2.16
	756	2346540436013	EHV Site Specific (LLFC 756 & 75)	0.018	5,323.23	1.52	1.52
	757	2336566756217	EHV Site Specific (LLFC 757 & 95)		346.71	0.97	0.97
	758	TBC	EHV Site Specific (LLFC 758)			0.96	0.96
	804	MSID_0645	EHV Site Specific (LLFC 804 & 800)	0.031	9,617.87	2.28	2.28
	760	2300000880966 2376509001013	EHV Site Specific - Generation Exempt (LLFC 760 & 60)		841.04	1.75	1.75
	761	2300000526686 2336518071011	EHV Site Specific (LLFC 761)	0.002	367.26	0.94	0.94
	762	2300000457400	EHV Site Specific - Generation Exempt (LLFC 762 & 62)	0.010	18.59	1.07	1.07
	763	MSID_7376	EHV Site Specific - Generation Exempt (LLFC 763 & 80)	0.038	142.37	0.94	0.94
	764	2300000233959 2300000233968 2300000233977	EHV Site Specific (LLFC 764)	0.014	3,867.40	0.76	0.76
	765	2300000457084 2390000010840 2390000010859	EHV Site Specific (LLFC 765)	0.706	2,119.78	2.43	2.43
	766	2376508030013 2376508030022	EHV Site Specific - Generation Exempt (LLFC 766 & 66)		74.82	0.96	0.96
	767	MSID_7021	EHV Site Specific (LLFC 767 & 67)		229.21	1.01	1.01
	769	2346526241119	EHV Site Specific (LLFC 769 & 128)			1.09	1.09
	771	2366591376117	EHV Site Specific (LLFC 771 & 92)			0.97	0.97
	772	2366591373116	EHV Site Specific (LLFC 772)			2.98	2.98
	773	2366591486111 2380002104680	EHV Site Specific (LLFC 773 & 65)			1.69	1.69
	774	2326522910011 2326522910020	EHV Site Specific - Generation Exempt (LLFC 774 & 74)	1.058	72.30	1.27	1.27
	775	2380000531989	EHV Site Specific (LLFC 775 & 87)	0.056	276.61	0.95	0.95
	777	2300000233596	EHV Site Specific - Generation Exempt (LLFC 777 & 77)	0.234	2.89	0.95	0.95
	778	2300000443816	EHV Site Specific - Generation Part Exempt (LLFC 778 & 78)		9.33	2.57	2.57
	780	2380000825051	EHV Site Specific (LLFC 780)	0.013	987.75	0.57	0.57
	781	2300000790540	EHV Site Specific - Generation Exempt (LLFC 781 & 81)		71.54	1.00	1.00
	782	2300001016288 2300001016297	EHV Site Specific (LLFC 782)	0.535	367.26	2.74	2.74
	783	2300000974268	EHV Site Specific - Generation Exempt (LLFC 783 & 83)	0.019	3.66	1.18	1.18
	784	2300001007247	EHV Site Specific - Generation Exempt (LLFC 784 & 84)	0.036	0.45	1.27	1.27
	785	2380000151720	EHV Site Specific - Generation Exempt (LLFC 785 & 85)	0.131	1.28	0.98	0.98
	786	2380000148115	EHV Site Specific - Generation Exempt (LLFC 786 & 86)		0.86	0.84	0.84
	787	2380000123421 2380000123430	EHV Site Specific (LLFC 787 & 129)		852.29	1.92	1.92
	788	2380000654644	EHV Site Specific (LLFC 788 & 88)	0.006	32.95	1.18	1.18
	789	2380001118812	EHV Site Specific (LLFC 789 & 89)	0.003	21.15	2.21	2.21
	790	2380001476585	EHV Site Specific (LLFC 790 & 94)	0.015	23.36	1.01	1.01
	791	2380001494334	EHV Site Specific (LLFC 791 & 93)	0.017	3.57	1.08	1.08
	793	2380001252829 2380001252838 2380001767827	EHV Site Specific (LLFC 793 & 91)	0.237	112.91	1.01	1.01
	794	2380001458911	EHV Site Specific (LLFC 794 & 97)	0.478	378.48	1.00	1.00
	795	2380001532167 2380001532176	EHV Site Specific (LLFC 795)	0.086	1,401.30	1.12	1.12
	796	2380001635401	EHV Site Specific (LLFC 796 & 98)		65.63	0.53	0.53
	831	2316530305110 2316530305129	EHV Site Specific (LLFC 831)	3.998	110.94	6.90	6.90
	832	2316541311014	EHV Site Specific (LLFC 832)	1.513	110.94	3.06	3.06
	833	2326511015014 2326511015023	EHV Site Specific (LLFC 833)	2.751	110.94	4.69	4.69
	834	2300000456903 2300000516605 2326531140128	EHV Site Specific (LLFC 834)	0.130	166.41	3.96	3.96
	835	2300000473625 2336505790019	EHV Site Specific (LLFC 835)	0.862	110.94	7.37	7.37
	836	2300000473616 2336506255013	EHV Site Specific (LLFC 836)	0.577	110.94	7.69	7.69
	837	2300000473634 2336526022010	EHV Site Specific (LLFC 837 & 34)	0.119	75.75	2.09	2.09
	838	2300000584925 233659992019	EHV Site Specific (LLFC 838)	0.151	110.94	1.90	1.90
	839	2300000233833 2336566356211	EHV Site Specific (LLFC 839 & 68)	0.020	46.72	1.04	1.04

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 2020 - Final EDCM import charges

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)
	840	2336566566018	EHV Site Specific (LLFC 840)	0.500	55.47	4.46	4.46
	841	2300000539365 2300000539374 2336590660028 2336590660037	EHV Site Specific (LLFC 841)	0.187	221.88	7.48	7.48
	842	TBC	EHV Site Specific (LLFC 842)	0.018	110.94	1.70	1.70
	843	TBC	EHV Site Specific (LLFC 843)	0.488	55.47	1.90	1.90
	844	2356530330014 2356530330023	EHV Site Specific (LLFC 844)	0.605	110.94	6.46	6.46
	845	2356562495011	EHV Site Specific (LLFC 845)	0.759	55.47	3.39	3.39
	846	2300000601321	EHV Site Specific (LLFC 846)	1.491	55.47	5.69	5.69
	847	2366560261014	EHV Site Specific (LLFC 847)	0.351	55.47	3.19	3.19
	848	2300000457377 2366560264112	EHV Site Specific (LLFC 848)	0.351	110.94	7.43	7.43
	849	2300000652292 2376503256010	EHV Site Specific (LLFC 849)	0.010	110.94	2.50	2.50
	850	2300000647051 2300000647060 2376552920013 2376552920022	EHV Site Specific (LLFC 850)	1.012	221.88	3.05	3.05
	851	2376550825013 2380000000543 2380000004097	EHV Site Specific (LLFC 851)	0.236	221.88	5.69	5.69
	852	2380000257932	EHV Site Specific (LLFC 852 & 71)		3.11	0.97	0.97
	853	2380000428837 2380000428846	EHV Site Specific (LLFC 853)	0.015	110.94	1.48	1.48
	854	2380000476088	EHV Site Specific (LLFC 854 & 72)		1.29	0.98	0.98
	855	2380000724195 2380001078977 2380001078986 2380001078995 2380001079001 2380001079321	EHV Site Specific (LLFC 855)	0.005	332.82	4.01	4.01
	856	2380001519750 2380001519760 2380001519779 2380001519788	EHV Site Specific (LLFC 856)	0.103	6,957.10	1.46	1.46
	857	2300000526046	EHV Site Specific (LLFC 857)	1.603	55.47	4.88	4.88
	858	2326526290016 2326526290025 2380002292920	EHV Site Specific (LLFC 858)	1.660	110.94	2.29	2.29
	859	2336525711011 2336525711020	EHV Site Specific (LLFC 859)	0.050	110.94	2.68	2.68
	860	2336526332017 2336526332026	EHV Site Specific (LLFC 860)	0.114	221.88	1.89	1.89
	861	2300000493180 2300000552125 2336552115017 2336552115026	EHV Site Specific (LLFC 861)	0.055	221.88	4.27	4.27
	862	2300000234163 2300000234172 2336590770013 2336590770022	EHV Site Specific (LLFC 862)	0.056	221.88	4.01	4.01
	863	2300000234066 2300000234075 2300000234084 2336590810010	EHV Site Specific (LLFC 863)	0.369	221.88	5.21	5.21
	864	2300000478970	EHV Site Specific (LLFC 864)	0.154	55.47	1.78	1.78
	865	2346530035017 2346530035026	EHV Site Specific (LLFC 865)	0.534	110.94	5.39	5.39
	867	2346534433019 2346534433028	EHV Site Specific (LLFC 867)	0.226	110.94	4.42	4.42
	868	2356530030015 2356530030024	EHV Site Specific (LLFC 868)	0.015	110.94	3.12	3.12
	869	2356530321010 2356530321029	EHV Site Specific (LLFC 869)	0.605	110.94	5.72	5.72
	870	2356530620210 2356530620229	EHV Site Specific (LLFC 870 & 36)	0.021	89.70	1.04	1.04
	871	2366540061017 2366540061026	EHV Site Specific (LLFC 871)	0.628	110.94	3.39	3.39
	872	2300000674055 2300000674064	EHV Site Specific (LLFC 872)	0.003	110.94	3.88	3.88
	873	2300000777530 2366540110116	EHV Site Specific (LLFC 873)	0.007	110.94	2.11	2.11
	874	2300000542828	EHV Site Specific (LLFC 874 & 32)		2.02	2.28	2.28
	875	2366560263119	EHV Site Specific (LLFC 875)	0.351	110.94	2.82	2.82
	876	2300000699565	EHV Site Specific (LLFC 876)	0.186	110.94	5.41	5.41
	877	2366591617013	EHV Site Specific (LLFC 877)	1.872	110.94	7.00	7.00
	880	2300000792050	EHV Site Specific (LLFC 880)	0.137	110.94	3.16	3.16
	881	2300000634415 2376552766015	EHV Site Specific (LLFC 881)	0.137	110.94	4.09	4.09

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 2020 - 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)
	882	2300000826383	EHV Site Specific (LLFC 882 & 69)	2.187	257.57	1.17	1.17
	883	2376503230011 2376508010017 2390000002459	EHV Site Specific (LLFC 883)	0.233	110.94	3.35	3.35
	884	2300000233754	EHV Site Specific (LLFC 884)	0.014	55.47	3.30	3.30
	886	2380001187667	EHV Site Specific (LLFC 886)	0.151	55.47	2.07	2.07
	888	2380001448611 2380001448620 2380001448630 2380001448649 2380001448658	EHV Site Specific (LLFC 888)	0.261	277.35	1.93	1.93
	889	2380001564275	EHV Site Specific (LLFC 889 & 70)	0.043	1.40	1.06	1.06
	797	2390000079381	EHV Site Specific - Generation Exempt (LLFC 797 & 99)	0.434	1.34	2.19	2.19
	798	2380001746400	EHV Site Specific (LLFC 798 & 61)		39.61	1.01	1.01
	799	2380001812550	EHV Site Specific (LLFC 799 & 51)	0.009	26.26	1.01	1.01
	821	2380001851381	EHV Site Specific (LLFC 821 & 52)	0.114	2.71	1.52	1.52
	822	2380001883036 2380001883045	EHV Site Specific (LLFC 822 & 53)	0.113	8.49	1.46	1.46
	823	2380001877557	EHV Site Specific (LLFC 823 & 54)	0.309	2.57	4.46	4.46
	824	MSID_7275	EHV Site Specific (LLFC 824 & 55)		25.58	0.97	0.97
	826	2380001874087	EHV Site Specific (LLFC 826 & 57)	0.107	41.14	1.55	1.55
	866	2346534400013 2346534400022	EHV Site Specific (LLFC 866)	0.557	55.47	2.32	2.32
	827	2380001838371	EHV Site Specific (LLFC 827 & 58)	0.005	1.31	1.29	1.29
	768	2380001882798	EHV Site Specific (LLFC 768 & 59)	0.017	2.83	1.05	1.05
	801	2380001905070	EHV Site Specific (LLFC 801 & 105)	0.376	8.36	1.09	1.09
	792	2380001951360	EHV Site Specific (LLFC 792 & 96)		35.51	0.50	0.50
	806	2380002166640	EHV Site Specific (LLFC 806 & 109)	0.021	46.91	1.04	1.04
	803	2380001909066	EHV Site Specific (LLFC 803 & 107)		4.27	1.09	1.09
	805	2380001989309	EHV Site Specific (LLFC 805 & 108)	0.172	26.47	1.78	1.78
	825	2380002022460	EHV Site Specific (LLFC 825 & 56)	0.005	19.25	1.19	1.19
	802	2380001909075 2380001909084	EHV Site Specific (LLFC 802 & 106)	0.103	358.94	0.83	0.83
	807	2380002032360	EHV Site Specific (LLFC 807 & 63)		170.11	0.75	0.75
	810	2380002115663	EHV Site Specific (LLFC 810 & 110)	0.036	562.57	0.83	0.83
	885	2366560312013	EHV Site Specific (LLFC 885 & 31)		72.73	1.37	1.37
	829	2380002197132	EHV Site Specific (LLFC 829 & 43)	0.680	2.19	1.33	1.33
	830	2380002155666	EHV Site Specific (LLFC 830 & 44)	0.075	29.32	1.31	1.31
	727	2380002198730	EHV Site Specific (LLFC 727 & 46)	0.491	55.01	1.25	1.25
	728	2380002182970	EHV Site Specific (LLFC 728 & 47)	0.239	116.78	1.01	1.01
	729	2380002286980	EHV Site Specific (LLFC 729 & 48)		58.14	0.98	0.98
	730	2380002248104	EHV Site Specific (LLFC 730 & 49)	0.146	106.30	1.21	1.21
	809	2380002046577	EHV Site Specific (LLFC 809 & 64)		46.91	1.89	1.89
	731	2380002277531	EHV Site Specific (LLFC 731 & 50)	0.008	7.14	2.77	2.77
	732	2380002328451	EHV Site Specific (LLFC 732 & 114)	0.058	16.47	1.71	1.71
	733	2380002296933	EHV Site Specific (LLFC 733 & 115)		29.31	1.03	1.03
	734	2380002293199	EHV Site Specific (LLFC 734 & 116)	0.001	13.45	1.50	1.50
	735	2380002270518	EHV Site Specific (LLFC 735 & 117)	0.231	22.03	1.10	1.10
	736	2380002293170	EHV Site Specific (LLFC 736 & 118)		114.92	0.75	0.75
	738	2380002299970	EHV Site Specific (LLFC 738 & 124)	0.004	103.53	0.84	0.84
	739	2380002287210	EHV Site Specific (LLFC 739 & 125)		1.44	1.71	1.71
	737	2380002287229	EHV Site Specific (LLFC 737 & 119)		1.44	2.09	2.09
	740	2380002309867	EHV Site Specific (LLFC 740 & 126)	0.358	45.01	1.64	1.64
	745	2380002315851	EHV Site Specific (LLFC 745 & 127)		450.42	0.51	0.51
	892	2300000839364	EHV Site Specific (LLFC 892)	1.660	55.47	2.06	2.06
	893	2300000646962 2300000647006	EHV Site Specific (LLFC 893)		110.94	2.14	2.14
	746	2380002366660 2380002366670	EHV Site Specific (LLFC 746 & 511)	0.008	5,115.81	1.23	1.23
	747	2380002391996	EHV Site Specific (LLFC 747 & 512)		122.42	1.01	1.01
	748	2380002397394	EHV Site Specific (LLFC 748 & 513)		28.33	1.73	1.73
	749	2380002410098	EHV Site Specific (LLFC 749 & 514)		54.61	1.73	1.73
	901	2380002419106	EHV Site Specific (LLFC 901 & 515)	0.015	6.32	0.95	0.95
	902	TBC	EHV Site Specific (LLFC 902 & 516)		49.15	0.23	0.23
	894	2300000444962 2366531830013	EHV Site Specific (LLFC 894)	1.491	110.94	3.32	3.32
	903	2380002478955	EHV Site Specific (LLFC 903)		538.29	2.45	2.45
	904	2380002478973	EHV Site Specific (LLFC 904 & 517)	0.001	6.98	2.39	2.39
	905	2380002483290	EHV Site Specific (LLFC 905 & 518)	0.015	4.39	2.39	2.39
	895	2376502990014 2376502990023	EHV Site Specific (LLFC 895)	0.323	110.94	5.61	5.61
	906	2380002504018	EHV Site Specific (LLFC 906 & 519)		23.27	2.01	2.01
	907	TBC	EHV Site Specific (LLFC 907 & 520)		901.40	0.23	0.23
	908	2380002530996	EHV Site Specific (LLFC 908 & 521)	0.015	4.39	2.39	2.39

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 2020 - 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)		93.81	0.05	0.05
	82	2394000039660 2394000110620	EHV Site Specific (LLFC 754 & 82)		301.46	0.05	0.05
	76	2394000039641	EHV Site Specific (LLFC 755 & 76)		260.11	0.05	0.05
	75	2394000039679	EHV Site Specific (LLFC 756 & 75)		399.24	0.05	0.05
	95	2394000060226	EHV Site Specific (LLFC 757 & 95)	(0.014)	729.88	0.05	0.05
	800	MSID_0645	EHV Site Specific (LLFC 804 & 800)	(0.026)	1,659.71	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	MSID_7377	EHV Site Specific - Generation Exempt (LLFC 763 & 80)				
	66	2300000233912 2300000996990	EHV Site Specific - Generation Exempt (LLFC 766 & 66)				
	67	MSID_7020	EHV Site Specific (LLFC 767 & 67)	(0.002)	5,673.00	0.05	0.05
	128	2394000133317	EHV Site Specific (LLFC 769 & 128)			0.05	0.05
	92	2394000019176	EHV Site Specific (LLFC 771 & 92)			0.05	0.05
	65	2394000117991	EHV Site Specific (LLFC 773 & 65)			0.05	0.05
	74	239400002925 2394100008408	EHV Site Specific - Generation Exempt (LLFC 774 & 74)				
	87	2394000024440	EHV Site Specific (LLFC 775 & 87)	(0.176)	1,058.65	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)		761.60	0.05	0.05
	81	2300000790550	EHV Site Specific - Generation Exempt (LLFC 781 & 81)				
	83	2300000974408 2394000113560 2394000135253	EHV Site Specific - Generation Exempt (LLFC 783 & 83)				
	84	2300001007256	EHV Site Specific - Generation Exempt (LLFC 784 & 84)				
	85	2394000011646	EHV Site Specific - Generation Exempt (LLFC 785 & 85)				
	86	2391100013704 2394000011502	EHV Site Specific - Generation Exempt (LLFC 786 & 86)				
	129	2394000134454 2394000134463	EHV Site Specific (LLFC 787 & 129)		224.30	0.05	0.05
	88	2394000027673	EHV Site Specific (LLFC 788 & 88)	(0.256)	878.73	0.05	0.05
	89	2394000043364 2394000138110	EHV Site Specific (LLFC 789 & 89)	(0.132)	890.54	0.05	0.05
	94	2394000056790	EHV Site Specific (LLFC 790 & 94)		1,573.60	0.05	0.05
	93	2394000058333	EHV Site Specific (LLFC 791 & 93)	(0.163)	180.06	0.05	0.05
	91	2394000047581 2394000047590 2394000047606	EHV Site Specific (LLFC 793 & 91)		1,918.78	0.05	0.05
	97	2394000055174	EHV Site Specific (LLFC 794 & 97)		11,951.96	0.05	0.05
	98	2394000072198	EHV Site Specific (LLFC 796 & 98)		6,590.16	0.05	0.05
	34	2394000106234	EHV Site Specific (LLFC 837 & 34)	(0.203)	35.19	0.05	0.05
	68	2300000233898	EHV Site Specific (LLFC 839 & 68)	(0.020)	64.22	0.05	0.05
	71	2394000016040	EHV Site Specific (LLFC 852 & 71)		52.36	0.05	0.05
	72	2394000022132	EHV Site Specific (LLFC 854 & 72)		54.18	0.05	0.05
	36	2394000129436	EHV Site Specific (LLFC 870 & 36)	(0.021)	132.18	0.05	0.05
	32	2300000542819	EHV Site Specific (LLFC 874 & 32)		53.45	0.05	0.05
	69	2300000930377	EHV Site Specific (LLFC 882 & 69)	(2.187)	1,915.95	0.05	0.05
	70	2394000039590	EHV Site Specific (LLFC 889 & 70)	(0.043)	54.07	0.05	0.05
	99	2394000079398	EHV Site Specific - Generation Exempt (LLFC 797 & 99)				
	61	2394000083311	EHV Site Specific (LLFC 798 & 61)		3,200.55	0.05	0.05
	51	2394000089457	EHV Site Specific (LLFC 799 & 51)	(0.058)	2,625.69	0.05	0.05
	52	2394000093027	EHV Site Specific (LLFC 821 & 52)		180.91	0.05	0.05
	53	2394000095831 2394000095840	EHV Site Specific (LLFC 822 & 53)		358.77	0.05	0.05
	54	2394000097068	EHV Site Specific (LLFC 823 & 54)		181.06	0.05	0.05
	55	MSID_7275	EHV Site Specific (LLFC 824 & 55)		882.43	0.05	0.05
	57	2394000094590	EHV Site Specific (LLFC 826 & 57)		2,608.69	0.05	0.05
	58	2394000091952	EHV Site Specific (LLFC 827 & 58)	(0.055)	182.32	0.05	0.05
	59	2394000095804	EHV Site Specific (LLFC 768 & 59)		180.80	0.05	0.05
	105	2394000098805	EHV Site Specific (LLFC 801 & 105)		529.94	0.05	0.05
	96	2394000102693	EHV Site Specific (LLFC 792 & 96)		2,915.59	0.05	0.05
	109	2394000122500	EHV Site Specific (LLFC 806 & 109)		1,717.27	0.05	0.05
	107	2394000099074	EHV Site Specific (LLFC 803 & 107)		534.03	0.05	0.05
	108	2394000107353	EHV Site Specific (LLFC 805 & 108)		3,714.85	0.05	0.05
	56	2394000110630	EHV Site Specific (LLFC 825 & 56)		554.03	0.05	0.05
	106	2394000099056 2394000099065	EHV Site Specific (LLFC 802 & 106)	(0.103)	1,036.13	0.05	0.05
	63	2394000111660	EHV Site Specific (LLFC 807 & 63)		1,414.64	0.05	0.05
	110	2394000118693	EHV Site Specific (LLFC 810 & 110)	(0.036)	6,582.31	0.05	0.05
	31	2300000542785	EHV Site Specific (LLFC 885 & 31)		2,870.82	0.05	0.05
	43	2394000124303	EHV Site Specific (LLFC 829 & 43)		181.44	0.05	0.05
	44	2394000121845	EHV Site Specific (LLFC 830 & 44)	(0.438)	154.31	0.05	0.05
	46	2394000124400	EHV Site Specific (LLFC 727 & 46)		6,062.49	0.05	0.05
	47	2394000123434	EHV Site Specific (LLFC 728 & 47)		8,399.65	0.05	0.05
	48	2394000130956	EHV Site Specific (LLFC 729 & 48)		3,404.57	0.05	0.05
	49	2394000127847	EHV Site Specific (LLFC 730 & 49)		4,928.50	0.05	0.05
	64	2394000113278	EHV Site Specific (LLFC 809 & 64)		2,320.60	0.05	0.05
	50	2394000129589	EHV Site Specific (LLFC 731 & 50)		3,181.34	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 2020 - Final EDCM export charges

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
114		2394000132642	EHV Site Specific (LLFC 732 & 114)		772.80	0.05	0.05
115		2394000131490	EHV Site Specific (LLFC 733 & 115)		1,042.32	0.05	0.05
116		2394000131338	EHV Site Specific (LLFC 734 & 116)	(0.256)	377.54	0.05	0.05
117		2394000129250	EHV Site Specific (LLFC 735 & 117)		581.61	0.05	0.05
118		2394000131329	EHV Site Specific (LLFC 736 & 118)	(0.002)	677.45	0.05	0.05
124		2394000131773	EHV Site Specific (LLFC 738 & 124)		4,287.70	0.05	0.05
125		2394000130965	EHV Site Specific (LLFC 739 & 125)		182.19	0.05	0.05
119		2394000130974	EHV Site Specific (LLFC 737 & 119)		182.19	0.05	0.05
126		2394000132094	EHV Site Specific (LLFC 740 & 126)	(0.471)	1,031.58	0.05	0.05
127		2394000132252	EHV Site Specific (LLFC 745 & 127)		4,504.24	0.05	0.05
511		2394000133831 2394000133840	EHV Site Specific (LLFC 746 & 511)	(0.134)	2,214.71	0.05	0.05
512		2394000134668	EHV Site Specific (LLFC 747 & 512)		2,938.19	0.05	0.05
513		2394000134914	EHV Site Specific (LLFC 748 & 513)	(0.002)	2,922.77	0.05	0.05
514		2394000135129	EHV Site Specific (LLFC 749 & 514)		737.76	0.05	0.05
515		2394000135305	EHV Site Specific (LLFC 901 & 515)	(0.049)	177.31	0.05	0.05
516		TBC	EHV Site Specific (LLFC 902 & 516)		1,753.48	0.05	0.05
517		2394000136976	EHV Site Specific (LLFC 904 & 517)	(0.002)	176.65	0.05	0.05
518		2394000137038	EHV Site Specific (LLFC 905 & 518)	(0.015)	179.24	0.05	0.05
519		2394000137960	EHV Site Specific (LLFC 906 & 519)		647.84	0.05	0.05
520		TBC	EHV Site Specific (LLFC 907 & 520)		901.23	0.05	0.05
521		2394000138583	EHV Site Specific (LLFC 908 & 521)	(0.015)	179.24	0.05	0.05

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2020 - Final LV and HV tariffs									
NHH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Unit charge 1 (NHH) p/kWh	Unit charge 2 (NHH) p/kWh	Fixed charge p/MPAN/day				
Notes:	Unit time periods are as specified in the SSC.								

HH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Red/black charge (HH) p/kWh	Amber/yellow charge (HH) p/kWh	Green charge (HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
Notes:	<p>Time periods</p> <p>Unit charges in the red time band apply – between 16:00 and 19:30, Monday to Friday including bank holidays.</p> <p>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.</p> <p>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.</p> <p>All times are UK clock-time.</p>								

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

Northern Powergrid (Yorkshire) plc - Effective from 1 April 2020 - Final LDNO tariffs

Time Bands for Half Hourly Metered Properties				Time Bands for Half Hourly Unmetered Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band		Black Time Band	Yellow 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	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
Saturday and Sunday All Year			00:00 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
Notes	All the above times are in UK Clock time			Notes	All the above times are in UK Clock time		

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVAh
LDNO LV: Domestic Unrestricted	150	1	1.133			4.09			
LDNO LV: Domestic Two Rate	151	2	1.290	0.632		4.09			
LDNO LV: Domestic Off Peak (related MPAN)	152	2	0.731						
LDNO LV: Small Non Domestic Unrestricted	153	3	1.295			4.35			
LDNO LV: Small Non Domestic Two Rate	154	4	1.419	0.673		4.35			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	155	4	0.761						
LDNO LV: LV Medium Non-Domestic	156	5-8	1.266	0.621		26.86			
LDNO LV: LV Network Domestic	148	0	3.078	1.059	0.615	4.09			
LDNO LV: LV Network Non-Domestic Non-CT	149	0	3.738	1.187	0.627	4.35			
LDNO LV: LV HH Metered	157	0	2.522	0.941	0.605	11.97	0.84	1.77	0.084
LDNO LV: NHH UMS category A	132	8	1.004						
LDNO LV: NHH UMS category B	133	1	1.067						
LDNO LV: NHH UMS category C	134	1	1.475						
LDNO LV: NHH UMS category D	135	1	0.974						
LDNO LV: LV UMS (Pseudo HH Metered)	170	0	7.032	1.056	0.616				
LDNO LV: LV Generation NHH or Aggregate HH	172	8&0	(0.553)						
LDNO LV: LV Generation Intermittent	173	0	(0.553)						0.104
LDNO LV: LV Generation Non-Intermittent	174	0	(3.157)	(0.613)	(0.054)				0.104
LDNO HV: Domestic Unrestricted	158	1	0.757			2.74			
LDNO HV: Domestic Two Rate	159	2	0.863	0.422		2.74			
LDNO HV: Domestic Off Peak (related MPAN)	160	2	0.489						
LDNO HV: Small Non Domestic Unrestricted	161	3	0.866			2.91			
LDNO HV: Small Non Domestic Two Rate	162	4	0.948	0.450		2.91			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	163	4	0.508						
LDNO HV: LV Medium Non-Domestic	164	5-8	0.846	0.415		17.95			
LDNO HV: LV Network Domestic	398	0	2.058	0.708	0.412	2.74			
LDNO HV: LV Network Non-Domestic Non-CT	399	0	2.499	0.794	0.419	2.91			
LDNO HV: LV HH Metered	165	0	1.686	0.629	0.404	8.00	0.56	1.19	0.056
LDNO HV: LV Sub HH Metered	166	0	2.376	0.945	0.666	13.40	1.06	1.66	0.060
LDNO HV: HV HH Metered	167	0	2.390	1.049	0.821	161.75	1.61	2.57	0.051
LDNO HV: NHH UMS category A	136	8	0.671						
LDNO HV: NHH UMS category B	137	1	0.713						
LDNO HV: NHH UMS category C	138	1	0.986						
LDNO HV: NHH UMS category D	139	1	0.651						
LDNO HV: LV UMS (Pseudo HH Metered)	171	0	4.701	0.706	0.412				
LDNO HV: LV Generation NHH or Aggregate HH	175	8&0	(0.553)						
LDNO HV: LV Sub Generation NHH	176	8	(0.491)						
LDNO HV: LV Generation Intermittent	177	0	(0.553)						0.104
LDNO HV: LV Generation Non-Intermittent	178	0	(3.157)	(0.613)	(0.054)				0.104
LDNO HV: LV Sub Generation Intermittent	179	0	(0.491)						0.098
LDNO HV: LV Sub Generation Non-Intermittent	180	0	(2.824)	(0.540)	(0.047)				0.098
LDNO HV: HV Generation Intermittent	181	0	(0.345)			0.00			0.081
LDNO HV: HV Generation Non-Intermittent	182	0	(2.072)	(0.358)	(0.030)	0.00			0.081
LDNO HVplus: Domestic Unrestricted	183	1	0.534			1.93			
LDNO HVplus: Domestic Two Rate	184	2	0.608	0.298		1.93			
LDNO HVplus: Domestic Off Peak (related MPAN)	185	2	0.345						
LDNO HVplus: Small Non Domestic Unrestricted	186	3	0.611			2.05			
LDNO HVplus: Small Non Domestic Two Rate	187	4	0.669	0.317		2.05			

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

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH or red/black charge (HH) p/kWh)	Unit charge 2 (NHH or amber/yellow charge (HH) p/kWh)	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	188	4	0.359						
LDNO HVplus: LV Medium Non-Domestic	189	5-8	0.597	0.293		12.67			
LDNO HVplus: LV Sub Medium Non-Domestic	0	5-8	0.780	0.470		9.34			
LDNO HVplus: HV Medium Non-Domestic	0	5-8	0.930	0.573		175.19			
LDNO HVplus: LV Network Domestic	422	0	1.451	0.499	0.290	1.93			
LDNO HVplus: LV Network Non-Domestic Non-CT	423	0	1.763	0.560	0.296	2.05			
LDNO HVplus: LV HH Metered	190	0	1.190	0.444	0.285	5.64	0.40	0.84	0.040
LDNO HVplus: LV Sub HH Metered	191	0	1.658	0.659	0.464	9.34	0.74	1.15	0.042
LDNO HVplus: HV HH Metered	192	0	1.652	0.725	0.567	111.79	1.11	1.77	0.035
LDNO HVplus: NHH UMS category A	140	8	0.474						
LDNO HVplus: NHH UMS category B	141	1	0.503						
LDNO HVplus: NHH UMS category C	142	1	0.696						
LDNO HVplus: NHH UMS category D	143	1	0.459						
LDNO HVplus: LV UMS (Pseudo HH Metered)	194	0	3.316	0.498	0.291				
LDNO HVplus: LV Generation NHH or Aggregate HH	195	8	(0.259)						
LDNO HVplus: LV Sub Generation NHH	196	8	(0.286)						
LDNO HVplus: LV Generation Intermittent	197	0	(0.259)						0.049
LDNO HVplus: LV Generation Non-Intermittent	198	0	(1.481)	(0.288)	(0.025)				0.049
LDNO HVplus: LV Sub Generation Intermittent	199	0	(0.286)						0.057
LDNO HVplus: LV Sub Generation Non-Intermittent	315	0	(1.643)	(0.314)	(0.027)				0.057
LDNO HVplus: HV Generation Intermittent	316	0	(0.345)			115.34			0.081
LDNO HVplus: HV Generation Non-Intermittent	317	0	(2.072)	(0.358)	(0.030)	115.34			0.081
LDNO EHV: Domestic Unrestricted	318	1	0.370			1.34			
LDNO EHV: Domestic Two Rate	319	2	0.421	0.206		1.34			
LDNO EHV: Domestic Off Peak (related MPAN)	320	2	0.239						
LDNO EHV: Small Non Domestic Unrestricted	321	3	0.423			1.42			
LDNO EHV: Small Non Domestic Two Rate	322	4	0.463	0.220		1.42			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	323	4	0.248						
LDNO EHV: LV Medium Non-Domestic	324	5-8	0.413	0.203		8.77			
LDNO EHV: LV Sub Medium Non-Domestic	0	5-8	0.540	0.325		6.47			
LDNO EHV: HV Medium Non-Domestic	0	5-8	0.644	0.397		121.28			
LDNO EHV: LV Network Domestic	424	0	1.005	0.346	0.201	1.34			
LDNO EHV: LV Network Non-Domestic Non-CT	425	0	1.220	0.388	0.205	1.42			
LDNO EHV: LV HH Metered	325	0	0.823	0.307	0.197	3.91	0.27	0.58	0.027
LDNO EHV: LV Sub HH Metered	326	0	1.148	0.456	0.322	6.47	0.51	0.80	0.029
LDNO EHV: HV HH Metered	327	0	1.144	0.502	0.393	77.40	0.77	1.23	0.024
LDNO EHV: NHH UMS category A	144	8	0.328						
LDNO EHV: NHH UMS category B	145	1	0.348						
LDNO EHV: NHH UMS category C	146	1	0.482						
LDNO EHV: NHH UMS category D	147	1	0.318						
LDNO EHV: LV UMS (Pseudo HH Metered)	329	0	2.296	0.345	0.201				
LDNO EHV: LV Generation NHH or Aggregate HH	330	8	(0.180)						
LDNO EHV: LV Sub Generation NHH	331	8	(0.198)						
LDNO EHV: LV Generation Intermittent	332	0	(0.180)						0.034
LDNO EHV: LV Generation Non-Intermittent	333	0	(1.025)	(0.199)	(0.018)				0.034
LDNO EHV: LV Sub Generation Intermittent	334	0	(0.198)						0.039
LDNO EHV: LV Sub Generation Non-Intermittent	335	0	(1.137)	(0.217)	(0.019)				0.039
LDNO EHV: HV Generation Intermittent	336	0	(0.239)			79.85			0.056
LDNO EHV: HV Generation Non-Intermittent	337	0	(1.434)	(0.248)	(0.021)	79.85			0.056
LDNO 132kV/EHV: Domestic Unrestricted	338	1	0.249			0.90			
LDNO 132kV/EHV: Domestic Two Rate	339	2	0.284	0.139		0.90			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	340	2	0.161						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	341	3	0.285			0.95			
LDNO 132kV/EHV: Small Non Domestic Two Rate	342	4	0.312	0.148		0.95			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	343	4	0.167						
LDNO 132kV/EHV: LV Medium Non-Domestic	344	5-8	0.278	0.136		5.90			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic	0	5-8	0.364	0.219		4.35			
LDNO 132kV/EHV: HV Medium Non-Domestic	0	5-8	0.433	0.267		81.63			
LDNO 132kV/EHV: LV Network Domestic	426	0	0.676	0.233	0.135	0.90			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT	427	0	0.821	0.261	0.138	0.95			

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

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH or red/black charge (HH) p/kWh	Unit charge 2 (NHH or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO 132kV/EHV: LV HH Metered	345	0	0.554	0.207	0.133	2.63	0.18	0.39	0.018
LDNO 132kV/EHV: LV Sub HH Metered	346	0	0.772	0.307	0.216	4.35	0.35	0.54	0.019
LDNO 132kV/EHV: HV HH Metered	347	0	0.770	0.338	0.264	52.09	0.52	0.83	0.016
LDNO 132kV/EHV: NHH UMS category A	302	8	0.221						
LDNO 132kV/EHV: NHH UMS category B	303	1	0.234						
LDNO 132kV/EHV: NHH UMS category C	304	1	0.324						
LDNO 132kV/EHV: NHH UMS category D	305	1	0.214						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	349	0	1.545	0.232	0.135				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH	350	8	(0.121)						
LDNO 132kV/EHV: LV Sub Generation NHH	351	8	(0.133)						
LDNO 132kV/EHV: LV Generation Intermittent	352	0	(0.121)						0.023
LDNO 132kV/EHV: LV Generation Non-Intermittent	353	0	(0.690)	(0.134)	(0.012)				0.023
LDNO 132kV/EHV: LV Sub Generation Intermittent	354	0	(0.133)						0.027
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	355	0	(0.765)	(0.146)	(0.013)				0.027
LDNO 132kV/EHV: HV Generation Intermittent	356	0	(0.161)			53.74			0.038
LDNO 132kV/EHV: HV Generation Non-Intermittent	357	0	(0.965)	(0.167)	(0.014)	53.74			0.038
LDNO 132kV: Domestic Unrestricted	358	1	0.129			0.47			
LDNO 132kV: Domestic Two Rate	359	2	0.147	0.072		0.47			
LDNO 132kV: Domestic Off Peak (related MPAN)	360	2	0.083						
LDNO 132kV: Small Non Domestic Unrestricted	361	3	0.147			0.49			
LDNO 132kV: Small Non Domestic Two Rate	362	4	0.161	0.077		0.49			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	363	4	0.087						
LDNO 132kV: LV Medium Non-Domestic	364	5-8	0.144	0.071		3.05			
LDNO 132kV: LV Sub Medium Non-Domestic	0	5-8	0.188	0.113		2.25			
LDNO 132kV: HV Medium Non-Domestic	0	5-8	0.224	0.138		42.25			
LDNO 132kV: LV Network Domestic	428	0	0.350	0.120	0.070	0.47			
LDNO 132kV: LV Network Non-Domestic Non-CT	429	0	0.425	0.135	0.071	0.49			
LDNO 132kV: LV HH Metered	365	0	0.287	0.107	0.069	1.36	0.10	0.20	0.010
LDNO 132kV: LV Sub HH Metered	366	0	0.400	0.159	0.112	2.25	0.18	0.28	0.010
LDNO 132kV: HV HH Metered	367	0	0.398	0.175	0.137	26.96	0.27	0.43	0.008
LDNO 132kV: NHH UMS category A	306	8	0.114						
LDNO 132kV: NHH UMS category B	307	1	0.121						
LDNO 132kV: NHH UMS category C	308	1	0.168						
LDNO 132kV: NHH UMS category D	309	1	0.111						
LDNO 132kV: LV UMS (Pseudo HH Metered)	369	0	0.800	0.120	0.070				
LDNO 132kV: LV Generation NHH or Aggregate HH	370	8	(0.063)						
LDNO 132kV: LV Sub Generation NHH	371	8	(0.069)						
LDNO 132kV: LV Generation Intermittent	372	0	(0.063)						0.012
LDNO 132kV: LV Generation Non-Intermittent	373	0	(0.357)	(0.069)	(0.006)				0.012
LDNO 132kV: LV Sub Generation Intermittent	374	0	(0.069)						0.014
LDNO 132kV: LV Sub Generation Non-Intermittent	375	0	(0.396)	(0.076)	(0.007)				0.014
LDNO 132kV: HV Generation Intermittent	376	0	(0.083)			27.82			0.020
LDNO 132kV: HV Generation Non-Intermittent	377	0	(0.500)	(0.086)	(0.007)	27.82			0.020
LDNO 0000: Domestic Unrestricted	378	1	0.053			0.19			
LDNO 0000: Domestic Two Rate	379	2	0.060	0.029		0.19			
LDNO 0000: Domestic Off Peak (related MPAN)	380	2	0.034						
LDNO 0000: Small Non Domestic Unrestricted	381	3	0.060			0.20			
LDNO 0000: Small Non Domestic Two Rate	382	4	0.066	0.031		0.20			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	383	4	0.035						
LDNO 0000: LV Medium Non-Domestic	384	5-8	0.059	0.029		1.25			
LDNO 0000: LV Sub Medium Non-Domestic	0	5-8	0.077	0.046		0.92			
LDNO 0000: HV Medium Non-Domestic	0	5-8	0.092	0.056		17.27			
LDNO 0000: LV Network Domestic	430	0	0.143	0.049	0.029	0.19			
LDNO 0000: LV Network Non-Domestic Non-CT	431	0	0.174	0.055	0.029	0.20			
LDNO 0000: LV HH Metered	385	0	0.117	0.044	0.028	0.56	0.04	0.08	0.004
LDNO 0000: LV Sub HH Metered	386	0	0.163	0.065	0.046	0.92	0.07	0.11	0.004
LDNO 0000: HV HH Metered	387	0	0.163	0.072	0.056	11.02	0.11	0.17	0.003
LDNO 0000: NHH UMS category A	310	8	0.047						
LDNO 0000: NHH UMS category B	311	1	0.050						
LDNO 0000: NHH UMS category C	312	1	0.069						

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

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO 0000: NHH UMS category D	313	1	0.045						
LDNO 0000: LV UMS (Pseudo HH Metered)	389	0	0.327	0.049	0.029				
LDNO 0000: LV Generation NHH or Aggregate HH	390	8	(0.026)						
LDNO 0000: LV Sub Generation NHH	391	8	(0.028)						
LDNO 0000: LV Generation Intermittent	392	0	(0.026)						0.005
LDNO 0000: LV Generation Non-Intermittent	393	0	(0.146)	(0.028)	(0.002)				0.005
LDNO 0000: LV Sub Generation Intermittent	394	0	(0.028)						0.006
LDNO 0000: LV Sub Generation Non-Intermittent	395	0	(0.162)	(0.031)	(0.003)				0.006
LDNO 0000: HV Generation Intermittent	396	0	(0.034)			11.37			0.008
LDNO 0000: HV Generation Non-Intermittent	397	0	(0.204)	(0.035)	(0.003)	11.37			0.008

Annex 5 - Schedule of Line Loss Factors

Northern Powergrid (Yorkshire) plc - Illustrative LLFs for year beginning 1 April 2020				
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	1.114	1.105	1.080	1.091	100, 111, 120, 20, 214, 22, 222, 224, 24, 240, 246, 279, 281, 290, 299, 813, 814, 815, 816, 817, 913, 999
Low Voltage Substation	1.044	1.044	1.046	1.043	223, 225, 23, 25, 30, 471
High Voltage Network	1.029	1.028	1.022	1.025	226, 228, 26, 28, 580, 581
High Voltage Substation	1.019	1.019	1.017	1.017	31, 32, 34, 36, 37, 38, 39, 68, 69, 71, 72, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 880, 881, 882, 883, 884, 885, 886, 888, 892, 893, 894, 895, 896, 897, 898, 899, 900
Greater than 22kV connected - generation	1.013	1.013	1.010	1.011	129, 514, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550
Greater than 22kV connected - demand	1.013	1.013	1.010	1.011	749, 758, 808, 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	1.027	1.026	1.027	750
Site 2	1.005	1.005	1.004	1.005	751
Site 3	1.018	1.018	1.021	1.016	753
Site 4	1.012	1.012	1.027	1.013	754
Site 5	1.010	1.010	1.021	1.012	755
Site 6	1.006	1.006	1.012	1.007	756
Site 7	1.003	1.003	1.002	1.003	757
Site 8	1.007	1.007	1.007	1.007	804
Site 9	1.005	1.005	1.005	1.005	760
Site 10	1.000	1.000	1.000	1.000	761
Site 11	1.010	1.010	1.009	1.010	762
Site 12	1.004	1.004	1.007	1.008	763
Site 13	1.000	1.000	1.000	1.000	764
Site 14	1.017	1.019	1.018	1.019	765

Annex 5 - Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 15	1.015	1.015	1.012	1.012	766
Site 16	1.003	1.005	1.014	1.007	767
Site 17	1.011	1.021	1.040	1.037	769
Site 18	1.029	1.045	1.060	1.055	771
Site 19	1.009	1.015	1.024	1.022	772
Site 20	1.043	1.072	1.113	1.099	773
Site 21	1.019	1.018	1.014	1.016	774
Site 22	1.009	1.010	1.009	1.009	775
Site 23	1.012	1.013	1.008	1.009	777
Site 24	1.000	1.001	1.001	1.001	778
Site 25	1.000	1.000	1.000	1.000	780
Site 26	1.004	1.005	1.034	1.008	781
Site 27	1.014	1.013	1.013	1.013	782
Site 28	1.012	1.012	1.009	1.010	783
Site 29	1.056	1.078	1.067	1.072	784
Site 30	1.006	1.006	1.006	1.006	785
Site 31	1.008	1.007	1.007	1.007	786
Site 32	1.004	1.004	1.003	1.003	787
Site 33	1.027	1.026	1.023	1.025	788
Site 34	1.006	1.005	1.004	1.004	789
Site 35	1.037	1.046	1.033	1.041	790
Site 36	1.010	1.021	1.011	1.013	791
Site 37	1.609	1.310	1.353	1.328	793
Site 38	1.077	1.071	1.062	1.064	794
Site 39	1.014	1.010	1.038	1.011	795
Site 40	1.001	1.002	1.001	1.007	796
Site 41	1.015	1.014	1.013	1.014	797
Site 42	1.017	1.014	1.009	1.010	798
Site 43	1.013	1.013	1.010	1.011	799
Site 44	1.046	1.048	1.028	1.038	821
Site 45	1.059	1.058	1.041	1.049	822
Site 46	1.067	1.065	1.054	1.057	823
Site 47	0.993	0.991	0.988	0.989	824
Site 48	1.078	1.070	1.278	1.351	826
Site 49	1.009	1.008	1.013	1.013	827
Site 50	1.019	1.019	1.019	1.019	768
Site 51	1.067	1.070	1.085	1.091	801
Site 52	1.000	1.000	1.000	1.000	792
Site 53	1.067	1.065	1.059	1.064	806
Site 54	1.002	1.003	1.002	1.002	803
Site 55	1.082	1.071	1.058	1.068	805
Site 56	1.013	1.012	1.009	1.011	825
Site 57	1.000	1.000	1.009	1.009	802
Site 58	1.000	1.000	1.000	1.000	807
Site 59	1.008	1.008	1.008	1.008	810
Site 60	1.093	1.091	1.071	1.074	829
Site 61	1.005	1.006	1.005	1.005	830
Site 62	1.046	1.042	1.021	1.023	727
Site 63	1.151	1.115	1.113	1.125	728
Site 64	1.021	1.017	1.015	1.017	729
Site 65	1.029	1.035	1.033	1.027	730
Site 66	1.079	1.076	1.081	1.082	809
Site 67	1.130	1.055	1.132	1.044	731
Site 68	1.064	1.053	1.065	1.066	732
Site 69	1.010	1.009	1.007	1.008	733

Annex 5 - Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 70	1.008	1.007	1.007	1.007	734
Site 71	1.149	1.136	1.115	1.120	735
Site 72	1.013	1.013	1.010	1.011	736
Site 73	1.028	1.029	1.035	1.033	738
Site 74	1.005	1.004	1.004	1.004	739
Site 75	1.004	1.004	1.004	1.004	737
Site 76	1.018	1.018	1.020	1.022	740
Site 77	1.001	1.001	1.001	1.001	745
Site 78	1.004	1.004	1.006	1.006	746
Site 79	1.006	1.006	1.006	1.006	747
Site 80	1.003	1.004	1.012	1.007	748
Site 81	1.005	1.005	1.004	1.004	901
Site 82	1.000	1.000	1.000	1.000	902
Site 83	1.004	1.004	1.003	1.003	903
Site 84	1.013	1.013	1.010	1.011	904
Site 85	1.005	1.006	1.011	1.008	905
Site 86	1.013	1.013	1.010	1.011	906
Site 87	1.000	1.000	1.000	1.000	907
Site 88	1.013	1.013	1.010	1.011	908

EHV site specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 1	1.377	1.564	1.266	1.209	90
Site 2	1.004	1.004	0.989	1.002	82
Site 3	0.994	0.993	0.981	0.991	76
Site 4	0.994	0.994	0.977	0.993	75
Site 5	1.002	1.002	1.000	1.001	95
Site 6	1.007	1.007	1.007	1.007	800
Site 7	1.000	1.000	1.001	1.002	60
Site 8	1.006	1.007	1.003	1.004	62
Site 9	1.003	1.003	1.002	1.003	80
Site 10	1.003	1.001	0.998	0.999	66
Site 11	0.997	0.998	0.993	0.998	67
Site 12	1.013	1.013	1.010	1.011	128
Site 13	0.995	0.987	0.981	0.982	92
Site 14	0.999	0.991	0.985	0.986	65
Site 15	1.029	1.026	1.011	1.020	74
Site 16	1.002	1.002	0.997	0.999	87
Site 17	1.012	1.012	1.006	1.008	77
Site 18	1.000	1.000	1.000	1.000	78
Site 19	0.990	0.989	0.968	0.987	81
Site 20	1.012	1.013	1.007	1.009	83
Site 21	1.001	1.003	1.005	1.002	84
Site 22	1.006	1.005	1.001	1.003	85
Site 23	1.003	1.002	1.001	1.002	86
Site 24	1.013	1.012	1.005	1.008	88
Site 25	1.007	1.006	1.003	1.004	89
Site 26	1.005	1.005	1.004	1.004	94
Site 27	1.014	1.013	1.008	1.010	93
Site 28	1.011	1.003	1.001	1.000	91
Site 29	1.015	1.011	1.005	1.008	97
Site 30	0.999	0.999	0.999	0.999	98
Site 31	1.016	1.016	1.000	1.012	99
Site 32	0.996	0.994	0.992	0.992	61

Annex 5 - Schedule of Line Loss Factors

Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site 33	1.013	1.013	1.010	1.011	51
Site 34	1.016	1.010	0.995	1.002	52
Site 35	1.014	1.009	0.994	1.001	53
Site 36	0.993	0.992	0.988	0.988	54
Site 37	0.993	0.991	0.988	0.989	55
Site 38	1.003	0.999	0.992	0.996	57
Site 39	1.000	1.000	1.000	0.999	58
Site 40	0.991	0.992	0.993	0.991	59
Site 41	1.018	1.018	1.018	1.018	105
Site 42	1.000	1.000	1.000	1.000	96
Site 43	1.010	1.011	1.007	1.008	109
Site 44	1.001	1.001	1.001	1.001	107
Site 45	1.003	0.998	0.983	0.989	108
Site 46	1.009	1.008	1.004	1.005	56
Site 47	1.007	1.007	1.007	1.007	106
Site 48	1.000	1.000	1.000	1.000	63
Site 49	0.973	0.973	0.974	0.974	110
Site 50	1.018	1.016	1.006	1.009	43
Site 51	1.003	1.003	0.999	1.001	44
Site 52	1.022	1.017	1.008	1.012	46
Site 53	1.007	0.993	0.987	0.989	47
Site 54	0.991	0.990	0.987	0.988	48
Site 55	0.997	0.995	0.992	0.994	49
Site 56	1.006	1.006	1.000	1.001	64
Site 57	0.980	0.996	0.978	0.996	50
Site 58	1.009	1.007	1.002	1.005	114
Site 59	0.995	0.994	0.991	0.992	115
Site 60	1.003	1.001	0.998	1.000	116
Site 61	1.015	1.009	1.007	1.006	117
Site 62	1.013	1.013	1.010	1.011	118
Site 63	0.994	0.993	0.992	0.993	124
Site 64	1.003	1.002	1.001	1.002	125
Site 65	1.003	1.002	1.001	1.002	119
Site 66	1.019	1.019	1.020	1.021	126
Site 67	0.996	0.996	0.995	0.995	127
Site 68	1.013	1.013	1.010	1.011	511
Site 69	1.013	1.013	1.010	1.011	512
Site 70	0.996	0.998	0.992	0.997	513
Site 71	1.007	1.008	1.006	1.006	515
Site 72	1.000	1.000	1.000	1.000	516
Site 73	1.013	1.013	1.010	1.011	517
Site 74	0.999	0.998	1.000	0.996	518
Site 75	1.013	1.013	1.010	1.011	519
Site 76	1.000	1.000	1.000	1.000	520
Site 77	1.013	1.013	1.010	1.011	521

Annex 6 - Charges for New or Amended Designated EHV Properties

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