

ELECTRICITY NORTH WEST

USE OF SYSTEM CHARGING STATEMENT

INDICATIVE NOTICE

EFFECTIVE FROM 01 APRIL 2012

VERSION.7.0

This statement is in a form to be approved by the Gas and Electricity Markets Authority.

304 Bridgewater Place

Birchwood Park

Warrington

Cheshire

WA3 6XG

Registered no: 2366949 (England)

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1. Introduction

- 1.1. This statement has been prepared in order to discharge Electricity North West's obligation under Standard Licence Condition 14 of our Electricity Distribution Licence. It contains information on our charges¹ and charging principles for use of our Distribution System. It also contains information on our Line Loss Factors.
- 1.2. The charges in this statement are calculated using the Common Distribution Charging Methodology (CDCM) for LV/HV Designated Properties, the EHV Distribution Charging Methodology (EDCM) for the import charges for Designated EHV Properties and the Electricity North West Extra High Voltage Distribution Charging Methodology for the export charges for Designated EHV Properties. The application of charges to a premise can be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables.
- 1.3. If you have any questions about this statement please contact us at the address shown below:

Charging Manager
Electricity North West
Commercial Policy
304 Bridgewater Place
Birchwood Park
Warrington
Cheshire
WA3 6XG
Email: electricitycommercialpolicy@enwl.co.uk
Telephone: 01925 846855

- 1.4. All enquiries regarding Connection Agreements and Changes to Maximum Capacities should be addressed to:

Terms and Conditions Manager
Electricity North West
Hartington Road
Preston
PR1 8LE

¹ Charges can be positive or negative.

Email: terms&conditions@enwl.co.uk

Telephone: 0800 0481820

- 1.5. For all other queries please contact our general enquiries telephone number: 01925 846999, lines are open 09:00 – 17:00 Monday to Friday.

Fax 01925 846990

Email: enquiries@enwl.co.uk

2. Charge Application and Definitions

Supercustomer Billing and Payment

- 2.1. Supercustomer billing and payment applies to Metering Points registered as Non-Half Hourly (NHH) metered. The Supercustomer approach makes use of aggregated data obtained from the Supercustomer DUoS Report.
- 2.2. Invoices are calculated on a periodic basis and sent to each User, for whom Electricity North West is transporting electricity through its Distribution System. Invoices are reconciled, over a period of approximately 14 months, to ensure the cash positions of Users and Electricity North West are adjusted to reflect later and more accurate consumption figures.
- 2.3. The charges are applied on the basis of the Line Loss Factor Classes (LLFCs) registered to the MPAN, and the units consumed within the time periods specified in this statement. All Line Loss Factor Classes (LLFCs) are assigned at the sole discretion of Electricity North West. The charges in this document are shown exclusive of VAT. Invoices take account of previous Settlement runs and include VAT.

Supercustomer Charges

- 2.4. Supercustomer charges are generally billed through the following components:
 - A fixed charge - pence/MPAN/day, there will only be one fixed charge applied to each Metering Point Administration Number (MPAN) in respect of which you are registered; and
 - Unit charges - pence/kilowatt-hour (kWh), based on the active consumption/production as provided through Settlement. More than one kWh charge may be applied.
- 2.5. These charges apply to Exit/Entry Points where NHH metering is used for Settlement.
- 2.6. Users who wish to supply electricity to Customers whose Metering System is Measurement Class A and settled on Profile Classes 1 through to 8 will be allocated the relevant charge structure set out in Annex 1.
- 2.7. Identification of the appropriate charge can be made by cross reference to the LLFC.

- 2.8. Valid Settlement Profile Class/Standard Settlement Configuration/Meter Timeswitch Code (PC/SSC/MTC) combinations for these LLFCs are detailed in Market Domain Data (MDD).
- 2.9. 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-TPR combinations, the default 'Domestic Unrestricted' fixed and unit charge will be applied for each invalid TPR combination.
- 2.10. The time periods for the charge rates are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided on the ENA website².
- 2.11. 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

- 2.12. Site-specific billing and payment applies to Metering Points registered as Half Hourly (HH) metered. The site-specific billing and payment approach to Use of System billing makes use of Half Hourly (HH) metering data received through Settlement.
- 2.13. Invoices are calculated on a periodic basis and sent to each User, for whom Electricity North West is transporting electricity through its Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment which may be necessary following the receipt of actual data from the User.
- 2.14. The charges are applied on the basis of the Line Loss Factor Classes (LLFCs) registered to the MPAN (or the MSID for CVA sites), and the units consumed within the time periods specified in this statement. All Line Loss Factor Classes (LLFCs) are assigned at the sole discretion of Electricity North West. The charges in this document are shown exclusive of VAT.

Site-Specific Billed Charges

- 2.15. Site-Specific billed charges may include the following components:
 - A fixed charge pence/MPAN/day;

² <http://2010.energynetworks.org/storage/DNO CDCM SSC TPR decoding for unit rates version3.xlsx>

- A capacity charge, pence/kVA/day, for agreed Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
 - An excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
 - Unit charges, pence/kWh, for transportation of electricity over the system; and
 - An excess reactive power charge, pence/kVArh, for each unit in excess of the reactive charge threshold.
- 2.16. These charges apply to Exit/Entry Points where HH metering, or an equivalent meter, is used for Settlement purposes.
- 2.17. Users who wish to supply electricity to Customers whose Metering System is Measurement Class C or E or CVA will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.
- 2.18. Fixed charges are generally levied on a pence per MPAN basis. Where two or more HH MPANs 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.
- 2.19. LV & HV Designated Properties as calculated using the CDCM will be allocated the relevant charge structure set out in Annex 1.
- 2.20. The time periods for the application of unit charges to LV & HV Designated Properties are as follows:
- Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays.
 - Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday.
 - Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday.
 - All times are UK clock time.
- 2.21. Designated EHV Properties as calculated using the EDCM will be allocated the relevant charge structure set out in Annex 2.
- 2.22. The time periods for the application of unit charges to Designated EHV Properties are as follows:
- Unit charges in the super red time band apply – between 16:30 and 18:30 Monday to Friday including Bank Holidays during November to February.

- All times are UK clock time.

Charges for Unmetered Supplies

- 2.23. Users who wish to supply electricity to Customers whose Metering System is Measurement Class B or Measurement Class D will be allocated the relevant charge structure in the Annex 1.
- 2.24. These charges are available to Exit Points which Electricity North West deems to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001³ and where operated in accordance with BSCP520⁴.
- 2.25. The time periods for the application of unit charges to connections which are pseudo HH metered are the same as those in paragraph 2.20.

Use of System Charges Out of Area

- 2.26. Electricity North West does not operate networks outside its Distribution Service Area.

Application of Capacity Charges

Chargeable Capacity

- 2.27. The Chargeable Capacity is, for each billing period, the highest of the MIC/MEC or the actual capacity, calculated as detailed below.
- 2.28. The MIC/MEC will be agreed with Electricity North West 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 period of one year. In the absence of an agreement the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by the distributor for the relevant premises' connection. A Customer can seek to agree or vary the MIC and/or MEC by contacting Electricity North West using the contact details in paragraph 1.4.
- 2.29. Reductions to the MIC/MEC may only be permitted once in a 12 month period and no retrospective changes will be allowed. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum demand. 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 cost.

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

⁴ Balancing and Settlement Code Procedures on unmetered supplies and available from <http://www.elexon.co.uk/pages/bscps.aspx>

Demand Chargeable Capacity

$$\text{Demand Chargeable Capacity} = \text{Max}(2 \times \sqrt{\text{AI}^2 + \max(\text{RI}, \text{RE})^2}, \text{MIC})$$

Where:

AI = Import consumption in kWh

RI = Reactive import in kVArh

RE = Reactive export in kVArh

MIC = Maximum Import Capacity in kVA

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

2.31. Only kVArh Import and kVArh Export values occurring at times of kWh Import are used.

Generation Chargeable Capacity

$$\text{Generation Chargeable Capacity} = \text{Max}(2 \times \sqrt{\text{AE}^2 + \max(\text{RI}, \text{RE})^2}, \text{MEC})$$

Where:

AE = Export Production in kWh

RI = Reactive import in kVArh

RE = Reactive export in kVArh

MEC = Maximum Export Capacity in kVA

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

2.33. Only kVArh Import and kVArh Export values occurring at times of kWh Export are used.

Standby Capacity for Additional Security on Site

2.34. Where standby capacity charges are applied, the charge will be set at the same rate as that applied to normal MIC.

Exceeded Capacity

2.35. 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. This will be charged for the duration of the full month in which the breach occurs.

Minimum Capacity Levels

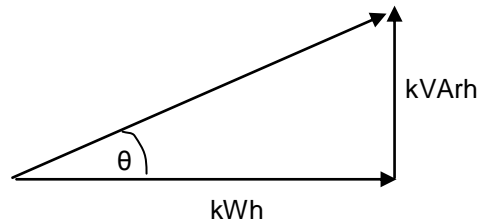
2.36. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.37. The excess reactive power charge applies when a site's reactive power (measured in kVAh) exceeds 33% of total active power (measured in kWh) in any half-hourly period. This threshold is equivalent to an average power factor of 0.95 during the period. Any reactive units in excess of the 33% threshold are charged at the rate appropriate to the particular charge.

2.38. Power Factor is calculated as follows:

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



2.39. The chargeable reactive power is calculated as follows:

Demand Chargeable Reactive Power

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

Where:

AI = Active Import in kWh

RI = Reactive Import in kVAh

RE = Reactive Export in kVAh

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

2.41. Only kVAh Import and kVAh Export values occurring at times of kWh Import are used.

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

Generation Chargeable Reactive Power

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

Where:

AE = Active Export in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

2.44. Only kVArh Import and kVArh Export values occurring at times of kWh Export are used.

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

Provision of billing data

2.46. Where HH metering data is required for Use of System charging and this is not provided through Settlement processes, such metering data shall be provided by the User of the system to Electricity North West in respect of each calendar month within 5 working days of the end of that calendar month. The metering data shall identify the amount consumed and/or produced in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to Electricity North West shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by Electricity North West 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 D0036 MRA data flow (as agreed with Electricity North West). The data shall be e-mailed to enquiries@enwl.co.uk.

2.47. Electricity North West requires reactive consumption or production to be provided for all Measurement Class C (mandatory HH metered) sites and for Measurement Class E (elective HH metered sites). Electricity North West reserves the right to levy a charge on Users who fail to provide such reactive data. (Details of how the data has been estimated can be provided on request).

Licensed Distributor Network Operator (LDNO) charges

- 2.48. LDNO charges are applied to LDNOs who operate Embedded Networks within Electricity North West's area.
- 2.49. The charge structure for LV and HV Designated Properties end users embedded in Networks operated by LDNOs will mirror the structure of the 'all-the-way' charge and is dependent upon the voltage of connection of each Embedded Network to the Host DNO's network. The same charge elements will apply as those that match the LDNO's end Customer charges.
- 2.50. The charge structure for Designated EHV Properties end-users embedded in Networks operated by LDNOs will be calculated individually using the EDCM.
- 2.51. For Nested Networks the Host DNO charges (or pays) the Nested LDNO on the basis of discounted charges for the voltage of connection of the Intermediate LDNO to the Host DNO, irrespective of the connection of the Nested LDNO to the Intermediate LDNO. Additional arrangements might exist between the Nested LDNO and the Intermediate LDNO; these arrangements are not covered in this statement.

3. Schedule of Charges for use of the Distribution System

- 3.1. Tables listing the charges for the distribution of electricity under use of system are published in annexes of this document.
- 3.2. These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from www.enwl.co.uk.
- 3.3. Annex 1 contains charges to LV and HV Designated Properties.
- 3.4. Annex 2 contains the charges to Designated EHV Properties and charges applied to LDNOs with Designated EHV Properties/end-users embedded in Networks within Electricity North West area.
- 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 with LV and HV Designated Properties end users embedded in Networks within Electricity North West area.

4. Schedule of Line Loss Factors

Role of Line Loss Factors in the Supply of Electricity

- 4.1. Electricity entering or exiting Electricity North West's network is adjusted to take account of energy which is lost⁵ as it is distributed through the network.
- 4.2. This adjustment is made to ensure that energy bought or sold by a User, from/to a Customer, accounts for energy lost as part of distributing energy to and from the Customer's premises.
- 4.3. DNOs are responsible for calculating the Line Loss Factors (LLFs) and providing these factors to Elexon. Elexon manage the Balancing and Settlement Code. The code covers the governance and rules for the balancing and settlement arrangements.
- 4.4. Annex 5 provides the LLFs which must be used to adjust the Metering System volumes to take account of losses on the Distribution Network.

Calculation of Line Loss Factors

- 4.5. LLFs are calculated in accordance with BSC Procedure (BSCP) 128. BSCP 128 determines the principles which DNOs must comply with when calculating LLFs.
- 4.6. LLFs are either calculated using 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 to all new EHV sites until sufficient data is available for a site specific calculation.
- 4.7. The Elexon website (<http://www.elexon.co.uk/pages/losses.aspx>) contains more information on LLFs. This page also has links to BSCP 128 and to our LLF methodology.

Line Loss Factor time periods

- 4.8. LLFs are calculated for a set number of time periods during the year. These time periods are detailed in Annex 5.

⁵ 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.

Line Loss Factor tables

- 4.9. When using the LLF tables in Annex 5 reference should be made to the LLFC allocated to the MPAN to find the appropriate LLF.
- 4.10. The Elexon Portal website, <https://www.bsccentralservices.com/>, contains the LLFs in standard industry data format (D0265). A user guide with details on registering and using the portal can be downloaded from <https://www.bsccentralservices.com/index.php/userguide/download>.

5. Notes for Designated EHV Properties

EDCM nodal costs

- 5.1. The table in Annex 6 shows the un-scaled nodal costs used to calculate the current EDCM 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, i.e. 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.

Demand Side Management

- 5.3. Electricity North West has a standard Demand Side Management (DSM) contract that is available to any customer that is charged under the Extra High Voltage Distribution Charging Methodology (EDCM). Under this contract, Electricity North West will pay a DSM payment to any EDCM customer who is willing to reduce their capacity by a minimum of 25% in the time periods specified by Electricity North West. The value of this payment will depend on the location of the EDCM site and how much spare capacity there is available on that part of the distribution network. Where the distribution network is very congested Electricity North West will pay more to the EDCM customer to reduce their load. For more information please view the Electricity North West website using the following link: <http://www.enwl.co.uk/our-services/use-of-system-charges/demand-side-management> or contact our Commercial Policy team using the following email address: electricitycommercialpolicy@enwl.co.uk.

6. Electricity Distribution Rebates

- 6.1. Electricity North West has neither given nor announced any distribution use of system rebates to Users in the 12 months preceding the date of publication of this revision of the statement.

7. Accounting and Administration Services

Administration Charge

- 7.1. Where a User has failed to settle a DUoS invoice or notify Electricity North West of a bona fide dispute, in accordance with the Use of System agreement an account review charge of £50.00 may be made to cover the associated credit control, administration, invoicing and collection costs. This is in addition to the interest charge that will be made in accordance with clause 23.3 of the Distribution Connection and Use of System Agreement (DCUSA).

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

- 8.1. Electricity North West does not have a schedule of the charges which may be made (i) for providing and installing any electrical plant at Entry Points or Exit Points, where such provision and installation are ancillary to the grant of Use of System, and (ii) for maintaining such plant.

9. Glossary of Terms

9.1. The following definitions are included to aid understanding:

Term	Definition
Balancing and Settlement Code (BSC)	The Balancing and Settlement Code contains the governance arrangements for electricity balancing and settlement in Great Britain. An over view document is available from " www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf ".
CDCM	The Common Distribution Charging Methodology used for calculating charges to Designated Properties as required by standard licence condition 13A of the Electricity Distribution Licence.
Customer	A person to whom a User proposes to supply, or for the time being supplies, electricity through an Exit Point, or from whom, a User or any relevant exempt Supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an Exit Point. Or A person from whom a User purchases, or proposes to purchase, electricity, at an Entry Point (who may from time to time be supplied with electricity as a Customer of that User (or another electricity supplier) through an Exit Point).
CVA	Central volume allocation in accordance with the BSC.
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.
Distributed Generator	A generator directly connected or embedded within the Distribution System.
Distribution Connection and Use of System Agreement (DCUSA)	The Distribution Connection and Use of System Agreement (DCUSA) is a multi-party contract between the licensed electricity distributors, suppliers and generators of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.
Electricity Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Electricity Act 1989.
Distribution Network Operator (DNO)	An Electricity Distributor who operates one of the fourteen Distribution Services Areas and in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution Services Area	The area specified by the Authority that a DNO as Distribution Services Provider will operate.

Term	Definition
Distribution Services Provider	An Electricity Distributor in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution System	The system consisting (wholly or mainly) of: <ul style="list-style-type: none"> • electric lines owned or operated by an authorised distributor that is used for the distribution of electricity from grid supply points or generation sets or other Entry Points to the points of delivery to Customers or Users; or • any transmission licensee in its capacity as operator of that licensee's transmission system or the GB transmission system; • and includes any remote transmission assets (owned by a transmission licensee within England and Wales) that are operated by that authorised distributor and any electrical plant, electricity meters, and Metering Equipment owned or operated by it in connection with the distribution of electricity, but does not include any part of the GB transmission system.
EDCM	The EHV Distribution Charging Methodology used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the Electricity Distribution Licence..
Electricity Distributor	Any person who is authorised by an Electricity Distribution Licence to distribute electricity.
Embedded LDNO	This refers to an LDNO operating a distribution network which is embedded within another distribution network.
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another distribution network.
Entry Point	A boundary point at which electricity is exported onto a Distribution System to a connected installation or to another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC)
Exit Point	A point of connection at which a supply of electricity may flow from the Distribution System to the Customer's Installation or User's Installation or the Distribution System of another person.
Extra High Voltage (EHV)	Nominal voltages of 22kV and above.
Gas and Electricity Markets Authority (GEMA) (the Authority)	As established by the Utilities Act.
Grid Supply Point	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.

Term	Definition
GSP Group	Grid Supply Point Group; a distinct electrical system, that is supplied from one or more Grid Supply Points 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
Host DNO	A distribution network operator that is responsible for a Distribution Services Area as defined in Standard conditions of the Electricity Distribution Licence
Intermediate LDNO	An embedded licenced distribution network operator that is responsible for a Distribution System between a Host DNO and another Embedded Distribution System.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in Market Domain Data. http://mddonline.elexon.co.uk/default.aspx
kVA	Kilovolt amperes
kVArh	Kilovolt ampere reactive hour
kW	Kilowatt
kWh	Kilowatt hour (equivalent to one "unit" of electricity)
LDNO	Licensed Distribution Network Operator.
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.
Line Loss Factor (LLF)	The factor which is used in Settlement to adjust the Metering System volumes to take account of losses on the Distribution System.
Low Voltage (LV)	Nominal voltages below 1kV
Market Domain Data (MDD)	Market Domain Data is a central repository of reference data used by all Users involved in Settlement. It is essential to the operation of Supplier Volume Allocation (SVA) Trading Arrangements.
Maximum Export Capacity (MEC)	The Maximum Export Capacity 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 Maximum Import Capacity of apparent power expressed in kVA that has been agreed can flow through the Exit Point from the Distribution System to the Customer's installation as specified in the connection agreement.

Term	Definition
Measurement Class	A classification of Metering Systems which indicates how Consumption is measured i.e. Non Half Hourly Metering Equipment (equivalent to Measurement Class "A") Non Half Hourly Unmetered Supplies (equivalent to Measurement Class "B") Half Hourly Metering Equipment at above 100kW Premises (equivalent to Measurement Class "C") Half Hourly Unmetered Supplies (equivalent to Measurement Class "D") Half Hourly Metering Equipment at below 100kW Premises (equivalent to Measurement Class "E").
Metering Point	The point at which electricity 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 Grid Supply Points are not 'Metering Points')
Metering System	Particular commissioned metering equipment installed for the purposes of measuring the quantities of Exports and Imports at the Boundary Point.
MPAN	Metering Point Administration Number. A number relating to a Metering Point under the MRA.
MRA	The Master Registration Agreement.
MTC	Meter Timeswitch Codes (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.
Nested LDNO	A distribution system operator that is responsible for a Nested Network.
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→intermediate LDNO→nested LDNO→Customer).
Ofgem	Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Profile Class (PC)	A categorisation applied to NHH MPANs and used in Settlement to group customers with similar consumption patterns to enable the calculation of consumption profiles.
Settlement	The determination and settlement of amounts payable in respect of charges (including reconciling charges) in accordance with the Balancing and Settlement Code
Settlement Class (SC)	The combination of Profile Class, Line Loss Factor Class, Time Pattern Regime and Standard Settlement Configuration, by Supplier within GSP Group and used for Settlement.

Term	Definition
Standard Settlement Configuration (SSC)	A standard metering configuration relating to a specific combination of TPRs.
Supercustomer	The method of billing Users for Use of System on an aggregated basis, grouping consumption and standing charges for all similar NHH metered Customers together.
Supercustomer DUoS Report	A report of profiled data by Settlement Class providing counts of MPANs and units consumed.
Supplier	An organisation with a Supply License which can register itself as supplying electricity to a Metering Point.
Supplier Volume Allocation (SVA)	As defined in the Balancing and Settlement Code.
Supplier Volume Allocation Agent (SVAA)	The agency which uses aggregated consumption data from the Data Aggregator to calculate Supplier purchases by Settlement Class for each Settlement day, and then passes this information to the relevant distributors and Suppliers across the national data transfer network.
Time Pattern Regime (TPR)	The pattern of switching behaviour though time that one or more meter registers follow.
Use of System Charges	Charges for demand and generation Customers which are connected to and utilising the distribution network.
User/s	Someone who has a use of system agreement with the DNO e.g. A Supplier, Generator or LDNO.

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

Electricity North West - Effective from April 2012 - INDICATIVE LV/HV Charges										
DNOs paste value cells A16:140 from CDCM 3701 into cells A4:J28	Open LLFCs	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVA/Arh	Excess Capacity charge (p/kVA)	Closed LLFCs
Domestic Unrestricted	011, 041, 441, 511	1	2.566			2.99				541
Domestic Two Rate	031, 051, 061, 451, 531	2	2.912	0.255		2.99				421, 501, 551, 561, 621, 651
Domestic Off Peak (related MPAN)	081, 581	2	0.249							071, 101, 111, 571, 601, 611
Small Non Domestic Unrestricted	131, 191, 631	3	2.078			2.98				691
Small Non Domestic Two Rate	161, 171, 661	4	2.306	0.209		2.98				181, 671, 681
Small Non Domestic Off Peak (related MPAN)	091, 591	4	0.223							071, 101, 111, 571, 601, 611
LV Medium Non-Domestic	241, 431, 481, 751	5-8	1.993	0.168		22.58				201, 211, 221, 231, 701, 711
LV Sub Medium Non-Domestic	242, 432, 482, 752	5-8	1.662	0.133		53.36				202, 212, 222, 702, 712
HV Medium Non-Domestic		5-8	1.076	0.070		222.70				203, 213, 223, 483, 703, 713, 753
LV HH Metered	801	0	9.198	0.618	0.094	10.32	3.24	0.247	3.24	251, 271, 401
LV Sub HH Metered	802	0	10.097	0.613	0.095	30.21	3.14	0.253	3.14	252, 272, 402
HV HH Metered	803	0	7.882	0.385	0.061	88.72	2.97	0.178	2.97	253, 413
HV Sub HH Metered		0	6.214	0.244	0.040	116.44	2.07	0.149	2.07	384, 404, 804
NHH UMS	721	1&8	2.907							341, 351, 371, 381
LV UMS (Pseudo HH Metered)	811	0	27.819	3.377	1.711					351
LV Generation NHH	961	8	(0.879)							911, 921, 931, 941
LV Sub Generation NHH	962	8	(0.680)							0
LV Generation Intermittent	971	0	(0.879)					0.224		0
LV Generation Non-Intermittent	981	0	(9.020)	(0.856)	(0.128)			0.224		0
LV Sub Generation Intermittent	972	0	(0.680)					0.179		0
LV Sub Generation Non-Intermittent	982	0	(7.066)	(0.648)	(0.098)			0.179		0
HV Generation Intermittent	973	0	(0.428)			5.50		0.120		0
HV Generation Non-Intermittent	983	0	(4.628)	(0.381)	(0.059)	5.50		0.120		0
HV Sub Generation Non-Intermittent	984	0	(3.210)	(0.226)	(0.036)	5.50		0.069		0
HV Sub Generation Intermittent	974	0	(0.283)			5.50		0.069		0
Notes:	<p>Domestic Unrestricted, Domestic Two Rate and Domestic Off-Peak (Related MPAN) are primarily designed for domestic premises. Domestic premises are premises used exclusively as private dwellings. These tariffs can also be used in premises used for residential business purposes, including boarding houses, hotels, hostels, homes for children and the elderly, premises divided into flats or bed sitting rooms and caravan sites under the following conditions:</p> <ol style="list-style-type: none"> 1. the supply is single phase and the capacity required is no greater than 24kVA; 2. where the premises are unlicensed and where a caravan site supply is to provide electricity for use only for caravans used as dwellings. <p>LLFC 531 with SSC 948 and TPRs 415 and 416 will be charged the Domestic Unrestricted rate for both rate 1 and rate 2.</p> <p>Small Non-Domestic Unrestricted, Small Non-Domestic Two Rate and Small Non-Domestic Off Peak (Related MPAN) - These tariffs generally apply to NHH customers with a capacity of less than 60kVA.</p> <p>LLFC 661 with SSC 948 and TPRs 415 and 416 will be charged at the Small Non Domestic Unrestricted rate for both rate 1 and rate 2.</p> <p>LV Sub applies to customers connected to the licensee's distribution system at a voltage of less than 1 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 1 kV and less than 22kV, where the current transformer used for the customer's settlement metering is located at the substation.</p> <p>LV Medium Non-Domestic and LV Sub Medium Non-Domestic apply to NHH customers with a demand of less than 100kW.</p> <p>For Profiles classes' 5-8 Maximum Demand metering functionality is required.</p>									

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

Electricity North West - Effective from April 2012 - INDICATIVE EDCM Import Charges						
LLFC	Tariff name	Super red rate p/kWh	Fixed charge for demand p/day	Import capacity p/kVA/day	Exceeded import capacity charge (p/kVA/day)	Unique Identifier (MPAN for SVA customers)
109	EDCM Import 1	7.222	1,816.31	5.72	5.72	1630000187381
119	EDCM Import 2	7.489	363.26	6.24	6.24	1630000031105
129	EDCM Import 3	2.668	4,924.23	2.02	2.02	1600000148383
139	EDCM Import 4	3.195	363.26	5.61	5.61	1600000136244
140	EDCM Import 5	0.372	2.87	5.37	5.37	1640000082620
149	EDCM Import 6	2.701	3,170.21	3.70	3.70	1620001236332
159	EDCM Import 7	3.433	3,351.52	2.50	2.50	1620000370375
160	EDCM Import 8	1.512	9.33	5.25	5.25	1640000082286
169	EDCM Import 9	4.627	1,089.79	5.49	5.49	1600000132620
179	EDCM Import 10	6.698	544.89	5.25	5.25	1620000531591
180	EDCM Import 11	3.738	61.79	4.71	4.71	tbc
189	EDCM Import 12	4.632	4,002.56	2.31	2.31	1600000137841
199	EDCM Import 13	1.549	6,694.93	3.72	3.72	1600000134831
200	EDCM Import 14		2,093.51	0.81	0.81	1640000063195
209	EDCM Import 15	2.707	908.15	6.73	6.73	1600000134901
219	EDCM Import 16		585.71	2.11	2.11	1600000155460
229	EDCM Import 17	2.139	544.89	2.47	2.47	1600000132392
239	EDCM Import 18	2.834	726.52	6.81	6.81	1600000134850
249	EDCM Import 19	1.750	363.26	4.76	4.76	1600000137318
259	EDCM Import 20	6.730	181.63	6.28	6.28	1600000137674
260	EDCM Import 21	0.366	4.33	3.01	3.01	1630000799836
269	EDCM Import 22	1.723	3,533.48	4.19	4.19	1600000138311
280	EDCM Import 23		27.81	0.99	0.99	1630000474610
289	EDCM Import 24	2.775	363.26	5.74	5.74	1600000138516
299	EDCM Import 25	2.491	2,452.83	3.65	3.65	1600000134822
309	EDCM Import 26	1.365	4,103.13	2.96	2.96	1600000134984
319	EDCM Import 27	3.663	181.63	3.71	3.71	1600000133856
320	EDCM Import 28		7,157.48	1.63	1.63	1630000239738
329	EDCM Import 29	3.294	363.26	6.60	6.60	1600000138924
339	EDCM Import 30	6.606	363.26	4.89	4.89	1600000135064
340	EDCM Import 31	0.547	11.61	4.68	4.68	1630000215620
349	EDCM Import 32	7.054	6,323.12	4.01	4.01	1600000132036
359	EDCM Import 33	2.596	4,219.77	3.44	3.44	1600000132045
369	EDCM Import 34	4.615	363.26	7.12	7.12	1600000137823
370	EDCM Import 35	0.064	2.16	4.74	4.74	1630000165174
379	EDCM Import 36	2.666	363.26	4.65	4.65	1600000132018
389	EDCM Import 37	3.329	181.63	3.69	3.69	1600000139087
410	EDCM Import 38	3.797	5.36	5.13	5.13	1620001681340
419	EDCM Import 39	3.493	476.14	6.66	6.66	1600000138108
430	EDCM Import 40	0.297	2.40	3.02	3.02	1620001638558
439	EDCM Import 41	11.529	1.44	2.23	2.23	1620000418238
450	EDCM Import 42	3.458	3,254.01	3.68	3.68	1620001195216
460	EDCM Import 43		656.39	0.79	0.79	1620001102921
480	EDCM Import 44	3.552	2.63	4.17	4.17	1620000703611
500	EDCM Import 45		976.56	3.36	3.36	1620000772484
510	EDCM Import 46		1,994.16	1.69	1.69	1620000398399
520	EDCM Import 47		1,251.43	2.38	2.38	1620000398404
530	EDCM Import 48		4,701.43	2.56	2.56	1620000398440
540	EDCM Import 49		2,020.75	1.56	1.56	1620000398413
550	EDCM Import 50		2,222.82	2.60	2.60	1620000398422
570	EDCM Import 51		3,651.21	2.49	2.49	1600000136918

Electricity North West - Effective from April 2012 - INDICATIVE EDCM Import Charges

LLFC	Tariff name	Super red rate p/kWh	Fixed charge for demand p/day	Import capacity p/kVA/day	Exceeded import capacity charge (p/kVA/day)	Unique Identifier (MPAN for SVA customers)
600	EDCM Import 52	0.105	12.49	1.43	1.43	1620000297228
610	EDCM Import 53		13,488.16	1.42	1.42	1600000132063
640	EDCM Import 54	0.936	1,410.13	6.56	6.56	1600000138766
650	EDCM Import 55	0.074	651.04	4.19	4.19	1600000139069
660	EDCM Import 56	0.135	1,585.51	2.70	2.70	1600000138836
670	EDCM Import 57		754.06	7.88	7.88	1600000176734
680	EDCM Import 58		388.52	2.60	2.60	1600000135019
700	EDCM Import 59	0.343	1,902.70	2.10	2.10	1600000138845
810	EDCM Import 60		1,299.24	2.72	2.72	1620000622316
830	EDCM Import 61		19.20	3.30	3.30	1620000828143
850	EDCM Import 62		651.04	5.47	5.47	1620000847420
900	EDCM Import 63	5.630	651.04	5.05	5.05	1620000595805
910	EDCM Import 64		181.63	5.75	5.75	1600000169151
920	EDCM Import 65		181.63	8.97	8.97	1600000168859
950	EDCM Import 66	0.724	14,689.55	2.72	2.72	1620000279707
960	EDCM Import 67		371.02	1.11	1.11	1620000388390
980	EDCM Import 68	0.134	6.38	2.49	2.49	1620000390840
CVA1	EDCM Import 69	0.076	1.60	1.14	1.14	MSID 7016
CVA2	EDCM Import 70	0.076	2,158.19	2.64	2.64	MSID 7039, 7040
CVA3	EDCM Import 71		39.26	0.88	0.88	MSID 7247
CVA4	EDCM Import 72		18.53	1.04	1.04	MSID 7240
CVA5	EDCM Import 73	3.433		3.67	3.67	MSID 2037, 2038
CVA6	EDCM Import 74	0.820		1.91	1.91	MSID 7156
CVA7	EDCM Import 75		1,497.85	1.15	1.15	MSID 7107
CVA8	EDCM Import 76			2.01	2.01	MSID 0437
CVA9	EDCM Import 77		16.62	0.80	0.80	1630000028733
CVA10	EDCM Import 78	0.416	21.78	1.18	1.18	1630000581074
CVA11	EDCM Import 79	0.416	24.97	1.17	1.17	1630000581144
IDNO1	EDCM Import 80	2.356	49.08	2.80	2.80	IDNO1
IDNO2	EDCM Import 81	2.356	334.66	1.68	1.68	IDNO2

Electricity North West - Effective from April 2012 - INDICATIVE EHV Export Charges

LLFC	Tariff name	Unit charge p/kWh	Fixed charge for generation p/day	Export capacity charge £/kW/annum (based on kW of installed capacity)	Exceeded export capacity charge (p/kVA/day)	Unique Identifier (MPAN for SVA customers)
290	Site specific Export 1			3.14		1630000474610
270	Site specific Export 2			3.14		1630000799836
190	Site specific Export 3			3.14		tbc
CVA3	Site specific Export 4			3.14		MSID 7247
CVA4	Site specific Export 5			3.33		MSID 7240
210	Site specific Export 6			3.14		1640000063195
150	Site specific Export 7			3.14		1640000082620
170	Site specific Export 8			3.14		1640000082286

Notes: Electricity North West shall calculate a site-specific generation charge for each EHV connected generator. An EHV connected generator can expect to pay a value of between £3.14 and £25.05/kW per annum, depending on the extent of the reinforcement works required to connect it and his/her proportionate share of the reinforcement costs. The lower level is derived from the allowable Operation & Maintenance (O&M) value of £1.26/kW per annum and the fixed capacity allowance for distributed generation of £1.88/kW per annum. The upper level of £25.05/kW pa is derived from the cap of £251/kW (above which the connecting generator will be required to pay the cost of reinforcement in the form of connection charges), assuming 100% of the reinforcement costs below this cap are included in Generator Distribution Use of System.

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

Electricity North West - Effective from April 2012 - INDICATIVE LV/HV Tariffs									
NHH Preserved Charges/Additional LLFC Classes									
	Closed LLFCs	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day			
HV Medium Non-Domestic	203, 213, 223, 483, 703, 713, 753	5-8	1.076	0.070		222.70			
Notes:	Unit time periods are as specified in the SSC. HV Medium Non-Domestic - This tariff will be closed to new customers and all new HV connections will be required to be half-hourly metered. Customers on HV Medium Non Domestic will be moved to the HV HH Metered tariff (LLF 803) once a Half Hourly meter has been installed.								
HH Preserved Charges/Additional LLFC Classes									
	Closed LLFCs	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess Capacity charge (p/kVA)
HV Sub HH Metered	384, 404, 804	0	6.214	0.244	0.040	116.44	2.07	0.149	2.07
Notes:	The HVS tariff is no longer open to new customers. New HVS customers will be charged on a site specific basis under the EDCM.								

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

Electricity North West - Effective from April 2012 - INDICATIVE LDNO Tariffs								
Copy from CDCM "TariffsID41:173" and paste values into C4	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVAh	Excess Capacity charge (p/kVA)
LDNO LV: Domestic Unrestricted	1	1.732			2.02			
LDNO LV: Domestic Two Rate	2	1.966	0.172		2.02			
LDNO LV: Domestic Off Peak (related MPAN)	2	0.168						
LDNO LV: Small Non Domestic Unrestricted	3	1.403			2.01			
LDNO LV: Small Non Domestic Two Rate	4	1.557	0.141		2.01			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	4	0.151						
LDNO LV: LV Medium Non-Domestic	5-8	1.345	0.113		15.24			
LDNO LV: LV HH Metered	0	6.209	0.417	0.063	6.97	2.19	0.167	2.19
LDNO LV: NHH UMS	1&8	1.962						
LDNO LV: LV UMS (Pseudo HH Metered)	0	18.778	2.279	1.155				
LDNO LV: LV Generation NHH	8	(0.879)						
LDNO LV: LV Generation Intermittent	0	(0.879)					0.224	
LDNO LV: LV Generation Non-Intermittent	0	(9.020)	(0.856)	(0.128)			0.224	
LDNO HV: Domestic Unrestricted	1	1.132			1.32			
LDNO HV: Domestic Two Rate	2	1.284	0.112		1.32			
LDNO HV: Domestic Off Peak (related MPAN)	2	0.110						
LDNO HV: Small Non Domestic Unrestricted	3	0.916			1.31			
LDNO HV: Small Non Domestic Two Rate	4	1.017	0.092		1.31			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	4	0.098						
LDNO HV: LV Medium Non-Domestic	5-8	0.879	0.074		9.96			
LDNO HV: LV HH Metered	0	4.056	0.273	0.041	4.55	1.43	0.109	1.43
LDNO HV: LV Sub HH Metered	0	6.795	0.413	0.064	20.33	2.11	0.170	2.11
LDNO HV: HV HH Metered	0	6.195	0.303	0.048	69.73	2.33	0.140	2.33
LDNO HV: NHH UMS	1&8	1.282						
LDNO HV: LV UMS (Pseudo HH Metered)	0	12.268	1.489	0.755				
LDNO HV: LV Generation NHH	8	(0.879)						
LDNO HV: LV Sub Generation NHH	8	(0.680)						
LDNO HV: LV Generation Intermittent	0	(0.879)					0.224	
LDNO HV: LV Generation Non-Intermittent	0	(9.020)	(0.856)	(0.128)			0.224	
LDNO HV: LV Sub Generation Intermittent	0	(0.680)					0.179	
LDNO HV: LV Sub Generation Non-Intermittent	0	(7.066)	(0.648)	(0.098)			0.179	
LDNO HV: HV Generation Intermittent	0	(0.428)					0.120	
LDNO HV: HV Generation Non-Intermittent	0	(4.628)	(0.381)	(0.059)			0.120	
Copy from EDCM "LDNORev1B460:G569" and paste values into C38								
LDNO HVplus: Domestic Unrestricted	1	0.958			1.12			
LDNO HVplus: Domestic Two Rate	2	1.088	0.096		1.12			
LDNO HVplus: Domestic Off Peak (related MPAN)	2	0.093						
LDNO HVplus: Small Non Domestic Unrestricted	3	0.776			1.11			
LDNO HVplus: Small Non Domestic Two Rate	4	0.861	0.078		1.11			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	4	0.083						
LDNO HVplus: LV Medium Non-Domestic	5-8	0.745	0.063		8.43			
LDNO HVplus: LV Sub Medium Non-Domestic		0.948	0.076		30.43			
LDNO HVplus: HV Medium Non-Domestic		0.717	0.047		148.37			
LDNO HVplus: LV HH Metered	0	3.434	0.231	0.035	3.85	1.21	0.092	1.21
LDNO HVplus: LV Sub HH Metered	0	5.756	0.350	0.054	17.23	1.79	0.144	1.79
LDNO HVplus: HV HH Metered	0	5.249	0.257	0.041	59.10	1.98	0.119	1.98
LDNO HVplus: NHH UMS	1&8	1.085						
LDNO HVplus: LV UMS (Pseudo HH Metered)	0	10.388	1.262	0.639				
LDNO HVplus: LV Generation NHH	8	(0.501)						
LDNO HVplus: LV Sub Generation NHH	8	(0.453)						
LDNO HVplus: LV Generation Intermittent	0	(0.501)					0.128	
LDNO HVplus: LV Generation Non-Intermittent	0	(5.124)	(0.487)	(0.073)			0.128	
LDNO HVplus: LV Sub Generation Intermittent	0	(0.453)					0.119	
LDNO HVplus: LV Sub Generation Non-Intermittent	0	(4.690)	(0.430)	(0.065)			0.119	
LDNO HVplus: HV Generation Intermittent	0	(0.428)			5.50		0.120	
LDNO HVplus: HV Generation Non-Intermittent	0	(4.610)	(0.380)	(0.059)	5.50		0.120	
LDNO EH: Domestic Unrestricted	1	0.760			0.89			
LDNO EH: Domestic Two Rate	2	0.863	0.076		0.89			

Electricity North West - Effective from April 2012 - INDICATIVE LDNO Tariffs

Copy from CDCM "TariffsID41:173" and paste values into C4	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVAh	Excess Capacity charge (p/kVA)
LDNO EHV: Domestic Off Peak (related MPAN)	2	0.074						
LDNO EHV: Small Non Domestic Unrestricted	3	0.616			0.88			
LDNO EHV: Small Non Domestic Two Rate	4	0.683	0.062		0.88			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	4	0.066						
LDNO EHV: LV Medium Non-Domestic	5-8	0.591	0.050		6.69			
LDNO EHV: LV Sub Medium Non-Domestic		0.752	0.061		24.14			
LDNO EHV: HV Medium Non-Domestic		0.569	0.037		117.73			
LDNO EHV: LV HH Metered	0	2.725	0.183	0.028	3.06	0.96	0.073	0.96
LDNO EHV: LV Sub HH Metered	0	4.567	0.278	0.043	13.67	1.42	0.114	1.42
LDNO EHV: HV HH Metered	0	4.165	0.204	0.032	46.90	1.57	0.094	1.57
LDNO EHV: NHH UMS	1&8	0.861						
LDNO EHV: LV UMS (Pseudo HH Metered)	0	8.243	1.001	0.507				
LDNO EHV: LV Generation NHH	8	(0.398)						
LDNO EHV: LV Sub Generation NHH	8	(0.360)						
LDNO EHV: LV Generation Intermittent	0	(0.398)					0.101	
LDNO EHV: LV Generation Non-Intermittent	0	(4.066)	(0.386)	(0.058)			0.101	
LDNO EHV: LV Sub Generation Intermittent	0	(0.360)					0.095	
LDNO EHV: LV Sub Generation Non-Intermittent	0	(3.722)	(0.342)	(0.052)			0.095	
LDNO EHV: HV Generation Intermittent	0	(0.340)			4.36		0.095	
LDNO EHV: HV Generation Non-Intermittent	0	(3.658)	(0.302)	(0.047)	4.36		0.095	
LDNO 132kV/EHV: Domestic Unrestricted	1	0.635			0.74			
LDNO 132kV/EHV: Domestic Two Rate	2	0.721	0.064		0.74			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	2	0.062						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	3	0.514			0.74			
LDNO 132kV/EHV: Small Non Domestic Two Rate	4	0.571	0.052		0.74			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	4	0.055						
LDNO 132kV/EHV: LV Medium Non-Domestic	5-8	0.493	0.042		5.59			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		0.628	0.051		20.16			
LDNO 132kV/EHV: HV Medium Non-Domestic		0.475	0.031		98.30			
LDNO 132kV/EHV: LV HH Metered	0	2.275	0.153	0.024	2.55	0.80	0.061	0.80
LDNO 132kV/EHV: LV Sub HH Metered	0	3.814	0.232	0.036	11.41	1.19	0.096	1.19
LDNO 132kV/EHV: HV HH Metered	0	3.478	0.170	0.027	39.16	1.31	0.079	1.31
LDNO 132kV/EHV: NHH UMS	1&8	0.719						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	0	6.882	0.836	0.424				
LDNO 132kV/EHV: LV Generation NHH	8	(0.332)						
LDNO 132kV/EHV: LV Sub Generation NHH	8	(0.300)						
LDNO 132kV/EHV: LV Generation Intermittent	0	(0.332)					0.085	
LDNO 132kV/EHV: LV Generation Non-Intermittent	0	(3.395)	(0.323)	(0.048)			0.085	
LDNO 132kV/EHV: LV Sub Generation Intermittent	0	(0.300)					0.079	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	0	(3.108)	(0.285)	(0.043)			0.079	
LDNO 132kV/EHV: HV Generation Intermittent	0	(0.284)			3.64		0.080	
LDNO 132kV/EHV: HV Generation Non-Intermittent	0	(3.054)	(0.252)	(0.039)	3.64		0.080	
LDNO 132kV: Domestic Unrestricted	1	0.482			0.56			
LDNO 132kV: Domestic Two Rate	2	0.547	0.048		0.56			
LDNO 132kV: Domestic Off Peak (related MPAN)	2	0.047						
LDNO 132kV: Small Non Domestic Unrestricted	3	0.390			0.56			
LDNO 132kV: Small Non Domestic Two Rate	4	0.433	0.039		0.56			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	4	0.042						
LDNO 132kV: LV Medium Non-Domestic	5-8	0.375	0.032		4.24			
LDNO 132kV: LV Sub Medium Non-Domestic		0.477	0.038		15.31			
LDNO 132kV: HV Medium Non-Domestic		0.361	0.023		74.65			
LDNO 132kV: LV HH Metered	0	1.728	0.116	0.018	1.94	0.61	0.046	0.61
LDNO 132kV: LV Sub HH Metered	0	2.896	0.176	0.027	8.67	0.90	0.073	0.90
LDNO 132kV: HV HH Metered	0	2.641	0.129	0.020	29.74	1.00	0.060	1.00
LDNO 132kV: NHH UMS	1&8	0.546						
LDNO 132kV: LV UMS (Pseudo HH Metered)	0	5.227	0.635	0.322				
LDNO 132kV: LV Generation NHH	8	(0.252)						
LDNO 132kV: LV Sub Generation NHH	8	(0.228)						
LDNO 132kV: LV Generation Intermittent	0	(0.252)					0.064	

Electricity North West - Effective from April 2012 - INDICATIVE LDNO Tariffs

Copy from CDCM "TariffsID41:173" and paste values into C4	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVAh	Excess Capacity charge (p/kVA)
LDNO 132kV: LV Generation Non-Intermittent	0	(2.578)	(0.245)	(0.037)			0.064	
LDNO 132kV: LV Sub Generation Intermittent	0	(0.228)					0.060	
LDNO 132kV: LV Sub Generation Non-Intermittent	0	(2.360)	(0.217)	(0.033)			0.060	
LDNO 132kV: HV Generation Intermittent	0	(0.215)			2.77		0.060	
LDNO 132kV: HV Generation Non-Intermittent	0	(2.319)	(0.191)	(0.030)	2.77		0.060	
LDNO 0000: Domestic Unrestricted	1	0.173			0.20			
LDNO 0000: Domestic Two Rate	2	0.196	0.017		0.20			
LDNO 0000: Domestic Off Peak (related MPAN)	2	0.017						
LDNO 0000: Small Non Domestic Unrestricted	3	0.140			0.20			
LDNO 0000: Small Non Domestic Two Rate	4	0.156	0.014		0.20			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	4	0.015						
LDNO 0000: LV Medium Non-Domestic	5-8	0.134	0.011		1.52			
LDNO 0000: LV Sub Medium Non-Domestic		0.171	0.014		5.49			
LDNO 0000: HV Medium Non-Domestic		0.129	0.008		26.79			
LDNO 0000: LV HH Metered	0	0.620	0.042	0.006	0.70	0.22	0.017	0.22
LDNO 0000: LV Sub HH Metered	0	1.039	0.063	0.010	3.11	0.32	0.026	0.32
LDNO 0000: HV HH Metered	0	0.948	0.046	0.007	10.67	0.36	0.021	0.36
LDNO 0000: NHH UMS	1&8	0.196						
LDNO 0000: LV UMS (Pseudo HH Metered)	0	1.876	0.228	0.115				
LDNO 0000: LV Generation NHH	8	(0.091)						
LDNO 0000: LV Sub Generation NHH	8	(0.082)						
LDNO 0000: LV Generation Intermittent	0	(0.091)					0.023	
LDNO 0000: LV Generation Non-Intermittent	0	(0.925)	(0.088)	(0.013)			0.023	
LDNO 0000: LV Sub Generation Intermittent	0	(0.082)					0.022	
LDNO 0000: LV Sub Generation Non-Intermittent	0	(0.847)	(0.078)	(0.012)			0.022	
LDNO 0000: HV Generation Intermittent	0	(0.077)			0.99		0.022	
LDNO 0000: HV Generation Non-Intermittent	0	(0.833)	(0.069)	(0.011)	0.99		0.022	

Annex 5 – Schedule of Line Loss Factors

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Electricity North West - Effective from April 2012 - INDICATIVE LLF Time Periods				
Time periods	Period 1	Period 2	Period 3	Period 4
	(Peak)	(Day)	(Day Off Peak)	(Day Peak)
Monday to Friday Mar to Oct	24:00 - 07:00	07:00 - 24:00		
Monday to Friday Nov to Feb	24:00 - 07:00		07:00 – 16:00 19:00 – 24:00	16:00 – 19:00
Saturday and Sunday All Year	24:00– 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	1.087	1.095	1.102	1.115	011, 031, 041, 051, 061, 081, 091, 131, 161, 171, 191, 241, 431, 441, 451, 481, 511, 531, 581, 591, 631, 661, 721, 751, 801, 811, 961, 971, 981
Low Voltage Substation	1.046	1.050	1.052	1.055	242, 432, 482, 752, 802, 962, 972, 982
High Voltage Network	1.031	1.036	1.038	1.041	483, 753, 803, 973, 983
High Voltage Substation	1.022	1.025	1.026	1.028	804, 974, 984, 109, 119, 129, 139, 149, 159, 169, 179, 189, 199, 209, 219, 229, 239, 249, 259, 269, 289, 299, 309, 319, 329, 339, 349, 359, 369, 379, 389, 419
33kV Generic	1.017	1.019	1.020	1.022	
132kV to 33kV Generic	1.012	1.013	1.014	1.015	
132kV Generic	1.007	1.009	1.009	1.010	

EHV Site Specific LLFs					
Demand					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
EDCM Import 5	1	1	1	1	140
EDCM Import 8	1	1	1	1	160
EDCM Import 11	1	1	1	1	180
EDCM Import 14	1	1	1	1	200
EDCM Import 21	1	1	1	1	260
EDCM Import 23	1.002	1.002	1.002	1.002	280
EDCM Import 28	1.042	1.042	1.042	1.042	320
EDCM Import 31	1	1	1	1	340
EDCM Import 35	1	1	1	1	370
EDCM Import 38	1	1	1	1	410
EDCM Import 40	1	1	1	1	430
EDCM Import 42	1.013	1.013	1.013	1.013	450
EDCM Import 43	1	1	1	1	460
EDCM Import 44	1.008	1.008	1.008	1.008	480
EDCM Import 45	1.005	1.005	1.005	1.005	500
EDCM Import 46	1.039	1.039	1.039	1.039	510
EDCM Import 47	1.006	1.006	1.006	1.006	520

EDCM Import 48	1.022	1.022	1.022	1.022	530
EDCM Import 49	1.023	1.023	1.023	1.023	540
EDCM Import 50	1.131	1.131	1.131	1.131	550
EDCM Import 51	1.074	1.074	1.074	1.074	570
EDCM Import 52	1.005	1.005	1.005	1.005	600
EDCM Import 53	1.017	1.017	1.017	1.017	610
EDCM Import 54	1.031	1.031	1.031	1.031	640
EDCM Import 55	1.015	1.015	1.015	1.015	650
EDCM Import 56	1.039	1.039	1.039	1.039	660
EDCM Import 57	1.013	1.013	1.013	1.013	670
EDCM Import 58	1.018	1.018	1.018	1.018	680
EDCM Import 59	1.175	1.175	1.175	1.175	700
EDCM Import 60	1.005	1.005	1.005	1.005	810
EDCM Import 61	1.016	1.016	1.016	1.016	830
EDCM Import 62	1.03	1.03	1.03	1.03	850
EDCM Import 63	1.024	1.024	1.024	1.024	900
EDCM Import 64	1.011	1.011	1.011	1.011	910
EDCM Import 65	1.003	1.003	1.003	1.003	920
EDCM Import 66	1.009	1.009	1.009	1.009	950
EDCM Import 67	1	1	1	1	960
EDCM Import 68	1	1	1	1	980
EDCM Import 69	0.959	0.959	0.959	0.959	MSID 7016
EDCM Import 70	0.975	0.975	0.975	0.975	MSID 7039, 7040
EDCM Import 71	1	1	1	1	MSID 7247
EDCM Import 72	1	1	1	1	MSID 7240
EDCM Import 73	1.019	1.019	1.019	1.019	MSID 2037, 2038
EDCM Import 74	1	1	1	1	MSID 7156
EDCM Import 75	0.998	0.998	0.998	0.998	MSID 7107
EDCM Import 76	1.009	1.009	1.009	1.009	MSID 0437
EDCM Import 80	1.005	1.005	1.005	1.005	IDNO1
EDCM Import 81	1.005	1.005	1.005	1.005	IDNO2

EHV Site Specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Site specific Export 1	0.994	0.994	0.994	0.994	290
Site specific Export 2	0.971	0.971	0.971	0.971	270
Site specific Export 3	1.004	1.004	1.004	1.004	190
Site specific Export 4	1	1	1	1	MSID 7247
Site specific Export 5	1	1	1	1	MSID 7240
Site specific Export 6	1	1	1	1	210
Site specific Export 7	0.988	0.988	0.988	0.988	150
Site specific Export 8	1.003	1.003	1.003	1.003	170

Annex 6 - Un-scaled nodal costs

The un-scaled nodal costs are available on the Electricity North West Schedule of Charges spreadsheet. This is available to download from the Electricity North West website using the following link: <http://www.enwl.co.uk/our-services/use-of-system-charges>.