



London Power Networks plc

Use of System Charging Statement

INDICATIVE NOTICE

Effective from 1st April 2012

Version 1.0

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

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1. Introduction

- 1.1. This statement has been prepared in order to discharge the obligation of London Power Networks plc, hereafter referred to as “UK Power Networks”, 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 UK Power Networks’ Charging Methodology for generation 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:

Chris Ong
Distribution Pricing Manager
UK Power Networks
Energy House
Hazelwick Avenue
Crawley
West Sussex
RH10 1EX
Email: distributionpricing@ukpowernetworks.co.uk
Telephone 01293 657937
- 1.4. All enquiries regarding Connection Agreements and Changes to Maximum Capacities should be addressed to:

Connection Agreements Administration
UK Power Networks
Energy House
Hazelwick Avenue
Crawley
West Sussex
RH10 1EX
Email: connectionagreements@ukpowernetworks.co.uk
Telephone 0808 1014131
- 1.5. For all other queries please contact our general enquiries telephone number:
08456 014 516.

¹ Charges can be positive or negative.

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 UK Power Networks 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 UK Power Networks are adjusted to reflect later and more accurate consumption figures.
- 2.3. The charges are applied on the basis of the LLFC registered to the MPAN, and the units consumed within the time periods specified in this statement. These time periods may not necessarily be the same as those indicated by the Time Pattern Regimes (TPRs) associated to the Standard Settlement Class (SSC). All LLFCs are assigned at the sole discretion of UK Power Networks. Where a User identifies an incorrectly applied LLFC, UK Power Networks may at our sole discretion apply the correct LLFC and/or charges backdated from the date the LLFC became incorrect, up to a maximum of three years. 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 except where an Invalid Settlement Combination has been applied; 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, or an equivalent meter, is used for Settlement purposes.
- 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 or where the MTC allocated is 800, 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 UK Power Networks 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 LLFC registered to the MPAN (or the MSID for CVA sites), and the units consumed within the time periods specified in this statement. All LLFCs are assigned at the sole discretion of UK Power Networks. Where a User identifies an incorrectly applied LLFC, UK Power Networks may at our sole discretion apply the correct LLFC and/or charges backdated from the date the LLFC became incorrect, up to a maximum of three years. The charges in this document are shown exclusive of VAT.

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

Site-Specific Billed Charges

- 2.15. Site-Specific billed charges may include the following components:
- A fixed charge pence/MPAN/day;
 - 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 11:00 and 14:00 and between 16:00 and 19:00, Monday to Friday including Bank Holidays
 - Unit charges in the amber time band apply between 07:00 and 11:00, between 14:00 and 16:00, and between 19:00 and 23:00, Monday to Friday including Bank Holidays
 - Unit charges in the green time band apply at all other times
 - 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 11:00 and 14:00, Monday to Friday including Bank Holidays, between June and August inclusive, and between 16:00 and 19:00, Monday to Friday including Bank Holidays, between November and February inclusive
- 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 UK Power Networks 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. UK Power Networks 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 UK Power Networks 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 UK Power Networks 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

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>

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

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

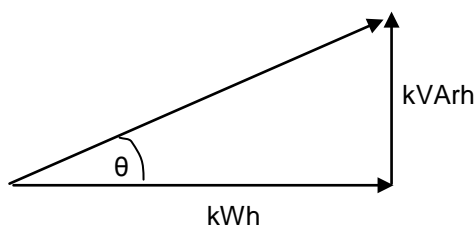
2.36. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.37. The excess reactive power charge applies when a site's reactive power (measured in kVArh) 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:

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



2.39. The chargeable reactive power is calculated as follows:

Demand Chargeable Reactive Power

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

Where:

AI = Active Import in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

2.41. Only kVArh Import and kVArh 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

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

Where:

AE = Active Export in kWh

RI = Reactive Import in kVAh

RE = Reactive Export in kVAh

- 2.43. This calculation is completed for every half hour and the values summated over the billing period.
- 2.44. Only kVAh Import and kVAh 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 UK Power Networks 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 the UK Power Networks shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by UK Power Networks 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 UK Power Networks). The data shall be e-mailed to duoservices@ukpowernetworks.co.uk.
- 2.47. UK Power Networks 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. UK Power Networks reserves 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 0.9 lag will be applied to the active consumption in any half hour.

Licensed Distributor Network Operator (LDNO) charges

- 2.48. LDNO charges are applied to LDNOs who operate Embedded Networks within UK Power Networks' 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.ukpowernetworks.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 UK Power Networks' 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 UK Power Networks' area.

4. Schedule of Line Loss Factors

Role of Line Loss Factors in the Supply of Electricity

- 4.1. Electricity entering or exiting the DNOs' networks 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. To access specific LLF information you must first register on the [Elexon portal](#) then go to 'Applications', then 'Market Data Dashboard'.

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 /Network Group costs

- 5.1. For full details of these charges, please refer to Annex 6 of the UK Power Networks charges published on our website www.ukpowernetworks.co.uk.
- 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. New or existing EHV Customers may wish to offer part of their MIC to be interruptible by UK Power Networks (for active network management purposes other than normal planned or unplanned outages) in order to benefit from any reduced Use of System charges calculated using the EDCM.
- 5.4. Several options exist in which UK Power Networks may agree for some or the entire MIC to be interruptible. Under the EDCM the applicable demand capacity costs would be based on the MIC minus the capacity subject to interruption.
- 5.5. An EDCM customer interested in making part or all of its MIC interruptible as an integral irrevocable feature of a new connection or modification to their existing connection should in the first instance contact UK Power Networks' connections function;

- By emailing connections.projectsgateway@ukpowernetworks.co.uk
- By telephone to 08701 964 599
- By writing to UK Power Networks, Projects Gateway, Metropolitan House, Darkes Lane, Potters Bar, Hertfordshire, EN6 1AG

The customer must make an express statement in their application that they have an interest in some or all of the import capacity being interruptible for active network management purposes.

- 5.6. An EDCM customer who is proactively interested in voluntarily but revocably offering to make some or all of their existing connection's MIC interruptible should in the first instance contact UK Power Networks' Agreement Manager;

- By emailing connection.agreements@ukpowernetworks.co.uk

- By telephone to 0808 1014131
- By writing to Agreements Manager, UK Power Networks, Energy House, Carrier Business Park, Hazelwick Avenue, Three Bridges, Crawley, West Sussex, RH10 1EX

5.7. A guide to DSM at UK Power Networks is also available. This provides more information on the type of arrangement that might be put in place should a Customer request to participate in DSM arrangements. This document is available by contacting the Agreements Manager at the address in paragraph 5.6.

6. Electricity Distribution Rebates

- 6.1. UK Power Networks 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

- 7.1. UK Power Networks reserves the right to impose payment default remedies. The remedies are as set out in DCUSA where applicable or else as detailed in the following paragraph.
- 7.2. If any invoices that are not subject to a valid dispute remain unpaid on the due date, late payment interest (calculated at base rate plus 8%) and administration charges will be imposed.
- 7.3. Our administration charges will be set at a level which is in line with the Late Payment of Commercial Debts Regulations 2002;

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. No charges for Electrical Plant Provided Ancillary to the Grant of Use of System are detailed within this Statement. Please refer to our Statement of Miscellaneous Charges for details of transactional charges and other notices.

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 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).
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.
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.

Term	Definition
Distribution System	<p>The system consisting (wholly or mainly) of:</p> <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.
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

Term	Definition
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.
Interruptible Import or Export Capacity (IIC)/(IEC)	That part of the MIC or MEC that may curtailed without the payment of statutory compensation payments . The Interruptible capacity may be greater than the difference between the MIC and PIC or the MEC and PEC where the customer volunteers further capacity to be interruptible. Being entitled to an Interruptible Capacity is implicitly not an absolute right and would remain conditional upon the fulfilment of technical requirements set out in the standard connection agreement and additionally any Ancillary Capacity Services Agreement. The interruptible capacity is further subdivided into two types for transparency, although the delivered benefit is the same, for the reason that administrative response to non delivery of interrupted capacity may differ.
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	<p>A classification of Metering Systems which indicates how Consumption is measured i.e.</p> <p>Non Half Hourly Metering Equipment (equivalent to Measurement Class "A")</p> <p>Non Half Hourly Unmetered Supplies (equivalent to Measurement Class "B")</p> <p>Half Hourly Metering Equipment at above 100kW Premises (equivalent to Measurement Class "C")</p> <p>Half Hourly Unmetered Supplies (equivalent to Measurement Class "D")</p> <p>Half Hourly Metering Equipment at below 100kW Premises (equivalent to Measurement Class "E").</p>
Metering Point	<p>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')</p>
Metering System	<p>Particular commissioned metering equipment installed for the purposes of measuring the quantities of Exports and Imports at the Boundary Point.</p>
MPAN	<p>Metering Point Administration Number. A number relating to a Metering Point under the MRA.</p>
MRA	<p>The Master Registration Agreement.</p>
MTC	<p>Meter Timeswitch Code. A code that uniquely identifies meter characteristics.</p>
Nested LDNO	<p>A distribution system operator that is responsible for a Nested Network.</p>
Nested Networks	<p>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).</p>
Ofgem	<p>Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.</p>
Planned Interruptible Import or Export Capacity (PIIC)/(PIEC)	<p>The part of the interruptible capacity that is not voluntary and was agreed as a feature of the customer's connection in agreeing or requesting a less capable connection. This part of the interruptible capacity is not amendable without either an agreed variation, payment for reinforcement to increase the PIC element of the MIC or reduction of the MIC to a level that reduces or eliminates the need for PIIC, the same concepts applying in respect of MEC, PEC and PIEC. A rebate on use of system to reflect avoided network reinforcement would be applied but no compensation will be paid for the curtailment of PIIC or PIEC.</p>
Profile Class (PC)	<p>A categorisation applied to NHH MPANs and used in Settlement to group customers with similar consumption patterns to enable the calculation of consumption profiles.</p>

Term	Definition
Protected Import or Export Capacity (PIC)/(PIC)	The part of the MIC or MEC that is not subject to planned Interruption. The customer has NOT elected to have a cheap connection that requires curtailment as a feature of their connection and their connection charge alone. The PIC or PEC will NOT be curtailed for network management purposes but only for unavoidable cases of unplanned and planned outages and only where necessary and options to call upon Interruptible capacity have been exhausted beforehand. The phrase 'Protected' is used here to avoid ambiguity in the use of the word "Firm" which has resilience connotations. "Protected" has been chosen to emphasise that the capacity is generally well looked after but is not guaranteed. Where PIC or PEC capacity is constrained statutory compensation payments may be required, i.e. GS payment or DG Network Unavailability Payments.
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.
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.

Term	Definition
Voluntary Interruptible Import or Export Capacity (VIIC) / (VIEC)	<p>The part of the MIC or MEC that is voluntarily offered out of the customer's protected capacity (PIC or PEC). The distributor will generally be unable to interrupt customers that have no interruptible capacity without compensation and it is expected that an Ancillary Capacity Services Agreement could only be established voluntarily with the customer to a price acceptable to the customer and to the distributor. The Ancillary Capacity Services Agreement would define the nature and amount of customer specific services payment to be paid, implicitly including the loss of business opportunity costs and related exposure costs, for the calling upon interruption of their protected capacity. It is expected that the Ancillary Capacity Services Agreements must deal seamlessly with any Planned Interruptible Import Capacity that forms part of the basis of the participating customer's Planned connection agreement. Calling upon interruptible capacity in such circumstances is likely to call on the Planned Interruptible Capacity, implicitly first, in addition to that voluntarily offered as the interruption of capacity would be effected through a common mechanism.</p>

Company, charging year, data version

	Distribution area	Year	Effective From	Status
Company, charging year, effective from, status	London Power Networks	2012-13	April 2012	INDICATIVE

List of data tables in this workbook

Worksheet

Information

[Annex 1 -LV-HV Charges](#)

Annex 1 contains charges to LV and HV Designated Properties.

[Annex 2 - EHV Charges](#)

Annex 2 contains the charges to Designated EHV Properties and charges applied to LDNOs with Designated EHV Properties/end-users embedded in Networks within London Power Networks' area.

[Annex 3 - Preserved Charges](#)

Annex 3 contains details of any preserved and additional charges that are valid at this time.

[Annex 4 - LDNO Charges](#)

Annex 4 contains charges that are levied on the owner of an embedded network within South Eastern Power Networks' area. Electricity Suppliers and consumers who have properties connected to an embedded network should contact the embedded network owner to determine their distribution charges. The charges listed in this table are not payable by domestic consumers, business consumers or Electricity Suppliers.

[Annex 5 - LLFs](#)

Annex 5 contains the LLFs which must be used to adjust the Metering System volumes to take account of losses on the Distribution Network.

[Annex 6 - Nodal prices](#)

Annex 6 contains the un-scaled nodal/network group costs used to calculate the current EDCM charges.

Notes to users of this spreadsheet

If you have any questions, please email distributionpricing@ukpowernetworks.co.uk

Notes to DNOs populating this spreadsheet

DNOs must endeavour to maintain consistency in the structure of this spreadsheet.
Any changes to the structure must be noted in the 'Notes to users'

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

London Power Networks - Effective from April 2012 - INDICATIVE LV/HV Charges										
	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/kVArh	Excess Capacity charge (p/kVA)	Closed LLFCs
LV Generation Intermittent	750	0	-0.925					0.309		
LV Generation Non-Intermittent	765	0	-4.154	-0.471	-0.086			0.309		
LV Sub Generation Intermittent	781	0	-0.842					0.285		
LV Sub Generation Non-Intermittent	782	0	-3.820	-0.416	-0.073			0.285		
HV Generation Intermittent	751	0	-0.581			30.61		0.245		
HV Generation Non-Intermittent	767	0	-2.800	-0.232	-0.025	30.61		0.245		
HV Sub Generation Non-Intermittent	792	0	-3.013	-0.239	-0.025	30.61		0.186		
HV Sub Generation Intermittent	791	0	-0.621			30.61		0.186		

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

London Power Networks - Effective from April 2012 - INDICATIVE EDCM Import Charges						
LLFC/MSID	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
808	IPC Bankside	0.001	684.91	3.18	3.18	BANKSI
798	RRRL Belvedere	0.000	11,529.97	0.91	0.91	BELVED
DNET	LPN to SPN - BROM	0.091	421.67	3.47	3.47	BROMLEY
DNET	LPN to SPN - DART 11	0.185	632.51	3.30	3.30	DARTFORD_J (11kV)
DNET	LPN to SPN - DART 33	0.191	632.51	2.69	2.69	DARTFORD_J (33kV)
5538	Taylors Lane Power Station	0.931	0.00	1.42	1.42	E_TAYL-S D
DNET	LPN to EPN - GIB	0.578	68.54	1.70	1.70	EPNGIB
DNET	LPN to EPN - LEI	0.923	369.77	1.80	1.80	EPNLEI
843	Global Switch	0.002	4,678.24	3.45	3.45	GBLSWI
809	Glaxo SmithKline	0.135	3,493.07	1.23	1.23	GLAXOS
DNET	KINGSTON	0.000	789.70	1.16	1.16	KINGSTON
796	LU ACTON	0.000	105.42	1.19	1.19	LU_ACT
796	LU CANAL	1.399	3,635.36	0.46	0.46	LU_CAN
796	LU HOXTON	0.000	4,142.09	0.94	0.94	LU_HOX
838	LU LOTS ROAD	0.007	22,714.63	2.20	2.20	LU_LOT
837	LU MANSELL STREET	0.000	14,812.24	1.03	1.03	LU_MAN
829	LU NEASDEN	0.000	24,071.47	0.60	0.60	LU_NEA
839	LU STEPHENSON ST	0.000	3,846.20	1.39	1.39	LU_STE
817	NGC, BARKING	0.000	0.00	0.32	0.32	NGC_BA
807	NR Bow	0.000	4,425.07	2.42	2.42	NR_BOW
847	NR, BROMLEY	0.089	1,843.26	1.98	1.98	NR_BRO
846	NR Poole Street (City Road)	0.000	68.54	1.46	1.46	NR_CIT
840	NR Maiden Lane	6.902	68.54	3.16	3.16	NR_MAD
845	NR NEW CROSS	0.000	1,184.55	0.97	0.97	NR_NEW
841	NR WILLESDEN 11KV	0.000	3,545.71	1.27	1.27	NR_W11
842	NR WILLESDEN 25KV	0.000	5,769.30	1.07	1.07	NR_W25
848	NR WEST HAM 25KV	0.043	3,740.78	1.53	1.53	NR_WES
849	NR Poole St (Whiston Road)	2.494	68.54	1.59	1.59	NR_WHI
844	NR WIMBLEDON	0.000	5,295.23	1.09	1.09	NR_WIM
827	SELCHP - Deptford	6.863	187.46	0.93	0.93	SELCHP
828	Thames Water,Beckton	0.000	3,504.47	0.97	0.97	THAMEB
798	Telehouse West Data Centre	0.940	848.93	1.44	1.44	TELEHW

London Power Networks - Effective from April 2012 - INDICATIVE EHV Export Charges						
LLFC/MSID	Tariff name	Unit charge p/kWh	Fixed charge for generation p/day	Export capacity p/kVA/day	Exceeded export capacity charge (p/kVA/day)	Unique Identifier
799	GSK Dartford	0.000	0.00	0.00	0.00	GLAXOSG
728	LU Neasden	0.000	0.00	0.00	0.00	LU Neasden
799	NR Bow	0.000	0.00	0.00	0.00	NR_BOWG
799	NR West Ham 25kV	0.000	0.00	0.00	0.00	NR_WESG
799	NR Willesden 25kV	0.000	0.00	0.00	0.00	NR_W25G
799	RRRL Belvedere	0.000	0.00	0.20	0.00	BELVEE
730	SELCHP - Deptford	0.000	526.00	0.00	0.00	SELCHPG
5538	Taylors Lane Power Station	0.000	0.00	0.00	0.00	E_TAYL-S D
799	Thames Water,Beckton	0.000	0.00	0.00	0.00	THAMEBG

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

London Power Networks - Effective from April 2012 - INDICATIVE LDNO Tariffs								
	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)
LDNO LV: Domestic Unrestricted	1	1.373			2.42			
LDNO LV: Domestic Two Rate	2	1.778	0.158		2.42			
LDNO LV: Domestic Off Peak (related MPAN)	2	0.153						
LDNO LV: Small Non Domestic Unrestricted	3	0.911			2.58			
LDNO LV: Small Non Domestic Two Rate	4	1.043	0.075		2.58			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	4	0.225						
LDNO LV: LV Medium Non-Domestic	5-8	1.139	0.117		22.43			
LDNO LV: LV HH Metered	0	2.646	0.289	0.051	6.53	2.02	0.208	2.02
LDNO LV: NHH UMS	1&8	1.265						
LDNO LV: LV UMS (Pseudo HH Metered)	0	10.133	1.444	0.473				
LDNO LV: LV Generation NHH	8	-0.925						
LDNO LV: LV Generation Intermittent	0	-0.925					0.309	
LDNO LV: LV Generation Non-Intermittent	0	-4.154	-0.471	-0.086			0.309	
LDNO HV: Domestic Unrestricted	1	0.938			1.66			
LDNO HV: Domestic Two Rate	2	1.215	0.108		1.66			
LDNO HV: Domestic Off Peak (related MPAN)	2	0.104						
LDNO HV: Small Non Domestic Unrestricted	3	0.622			1.76			
LDNO HV: Small Non Domestic Two Rate	4	0.713	0.051		1.76			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	4	0.154						
LDNO HV: LV Medium Non-Domestic	5-8	0.778	0.080		15.32			
LDNO HV: LV HH Metered	0	1.807	0.197	0.035	4.46	1.38	0.142	1.38
LDNO HV: LV Sub HH Metered	0	1.579	0.135	0.016	4.29	3.69	0.142	3.69
LDNO HV: HV HH Metered	0	1.437	0.111	0.011	52.00	4.41	0.097	4.41
LDNO HV: NHH UMS	1&8	0.864						
LDNO HV: LV UMS (Pseudo HH Metered)	0	6.923	0.986	0.323				
LDNO HV: LV Generation NHH	8	-0.925						
LDNO HV: LV Sub Generation NHH	8	-0.842						
LDNO HV: LV Generation Intermittent	0	-0.925					0.309	
LDNO HV: LV Generation Non-Intermittent	0	-4.154	-0.471	-0.086			0.309	
LDNO HV: LV Sub Generation Intermittent	0	-0.842					0.285	
LDNO HV: LV Sub Generation Non-Intermittent	0	-3.820	-0.416	-0.073			0.285	
LDNO HV: HV Generation Intermittent	0	-0.581					0.245	
LDNO HV: HV Generation Non-Intermittent	0	-2.800	-0.232	-0.025			0.245	
LDNO HVplus: Domestic Unrestricted	1	0.917			1.62			
LDNO HVplus: Domestic Two Rate	2	1.188	0.105		1.62			
LDNO HVplus: Domestic Off Peak (related MPAN)	2	0.102						
LDNO HVplus: Small Non Domestic Unrestricted	3	0.609			1.72			
LDNO HVplus: Small Non Domestic Two Rate	4	0.697	0.050		1.72			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	4	0.150						
LDNO HVplus: LV Medium Non-Domestic	5-8	0.761	0.078		14.99			
LDNO HVplus: LV Sub Medium Non-Domestic								
LDNO HVplus: HV Medium Non-Domestic								
LDNO HVplus: LV HH Metered	0	1.768	0.193	0.034	4.36	1.35	0.139	1.35
LDNO HVplus: LV Sub HH Metered	0	1.500	0.128	0.016	4.07	3.51	0.135	3.51
LDNO HVplus: HV HH Metered	0	1.347	0.104	0.010	48.76	4.14	0.090	4.14

London Power Networks - Effective from April 2012 - INDICATIVE LDNO Tariffs

	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)
LDNO HVplus: NHH UMS	1&8	0.845						
LDNO HVplus: LV UMS (Pseudo HH Metered)	0	6.773	0.965	0.316				
LDNO HVplus: LV Generation NHH	8	-0.630						
LDNO HVplus: LV Sub Generation NHH	8	-0.640						
LDNO HVplus: LV Generation Intermittent	0	-0.630					0.211	
LDNO HVplus: LV Generation Non-Intermittent	0	-2.830	-0.321	-0.059			0.211	
LDNO HVplus: LV Sub Generation Intermittent	0	-0.640					0.217	
LDNO HVplus: LV Sub Generation Non-Intermittent	0	-2.905	-0.316	-0.056			0.217	
LDNO HVplus: HV Generation Intermittent	0	-0.581			30.61		0.245	
LDNO HVplus: HV Generation Non-Intermittent	0	-2.800	-0.232	-0.025	30.61		0.245	
LDNO EHV: Domestic Unrestricted	1	0.712			1.26			
LDNO EHV: Domestic Two Rate	2	0.922	0.082		1.26			
LDNO EHV: Domestic Off Peak (related MPAN)	2	0.079						
LDNO EHV: Small Non Domestic Unrestricted	3	0.473			1.34			
LDNO EHV: Small Non Domestic Two Rate	4	0.541	0.039		1.34			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	4	0.117						
LDNO EHV: LV Medium Non-Domestic	5-8	0.591	0.061		11.63			
LDNO EHV: LV Sub Medium Non-Domestic								
LDNO EHV: HV Medium Non-Domestic								
LDNO EHV: LV HH Metered	0	1.373	0.150	0.026	3.39	1.05	0.108	1.05
LDNO EHV: LV Sub HH Metered	0	1.164	0.099	0.012	3.16	2.72	0.105	2.72
LDNO EHV: HV HH Metered	0	1.046	0.081	0.008	37.84	3.21	0.070	3.21
LDNO EHV: NHH UMS	1&8	0.656						
LDNO EHV: LV UMS (Pseudo HH Metered)	0	5.257	0.749	0.246				
LDNO EHV: LV Generation NHH	8	-0.489						
LDNO EHV: LV Sub Generation NHH	8	-0.497						
LDNO EHV: LV Generation Intermittent	0	-0.489					0.163	
LDNO EHV: LV Generation Non-Intermittent	0	-2.196	-0.249	-0.045			0.163	
LDNO EHV: LV Sub Generation Intermittent	0	-0.497					0.168	
LDNO EHV: LV Sub Generation Non-Intermittent	0	-2.254	-0.246	-0.043			0.168	
LDNO EHV: HV Generation Intermittent	0	-0.451			23.76		0.190	
LDNO EHV: HV Generation Non-Intermittent	0	-2.173	-0.180	-0.019	23.76		0.190	
LDNO 132kV/EHV: Domestic Unrestricted	1	0.418			0.74			
LDNO 132kV/EHV: Domestic Two Rate	2	0.542	0.048		0.74			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	2	0.046						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	3	0.278			0.79			
LDNO 132kV/EHV: Small Non Domestic Two Rate	4	0.318	0.023		0.79			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	4	0.069						
LDNO 132kV/EHV: LV Medium Non-Domestic	5-8	0.347	0.036		6.83			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic								
LDNO 132kV/EHV: HV Medium Non-Domestic								
LDNO 132kV/EHV: LV HH Metered	0	0.806	0.088	0.015	1.99	0.62	0.063	0.62
LDNO 132kV/EHV: LV Sub HH Metered	0	0.684	0.058	0.007	1.86	1.60	0.061	1.60
LDNO 132kV/EHV: HV HH Metered	0	0.614	0.047	0.005	22.22	1.89	0.041	1.89
LDNO 132kV/EHV: NHH UMS	1&8	0.385						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	0	3.088	0.440	0.144				

London Power Networks - Effective from April 2012 - INDICATIVE LDNO Tariffs

	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)
LDNO 132kV/EHV: LV Generation NHH	8	-0.287						
LDNO 132kV/EHV: LV Sub Generation NHH	8	-0.292						
LDNO 132kV/EHV: LV Generation Intermittent	0	-0.287					0.096	
LDNO 132kV/EHV: LV Generation Non-Intermittent	0	-1.290	-0.146	-0.027			0.096	
LDNO 132kV/EHV: LV Sub Generation Intermittent	0	-0.292					0.099	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	0	-1.324	-0.144	-0.025			0.099	
LDNO 132kV/EHV: HV Generation Intermittent	0	-0.265			13.95		0.112	
LDNO 132kV/EHV: HV Generation Non-Intermittent	0	-1.276	-0.106	-0.011	13.95		0.112	
LDNO 132kV: Domestic Unrestricted	1	0.295			0.52			
LDNO 132kV: Domestic Two Rate	2	0.382	0.034		0.52			
LDNO 132kV: Domestic Off Peak (related MPAN)	2	0.033						
LDNO 132kV: Small Non Domestic Unrestricted	3	0.196			0.55			
LDNO 132kV: Small Non Domestic Two Rate	4	0.224	0.016		0.55			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	4	0.048						
LDNO 132kV: LV Medium Non-Domestic	5-8	0.245	0.025		4.82			
LDNO 132kV: LV Sub Medium Non-Domestic								
LDNO 132kV: HV Medium Non-Domestic								
LDNO 132kV: LV HH Metered	0	0.568	0.062	0.011	1.40	0.43	0.045	0.43
LDNO 132kV: LV Sub HH Metered	0	0.482	0.041	0.005	1.31	1.13	0.043	1.13
LDNO 132kV: HV HH Metered	0	0.433	0.033	0.003	15.67	1.33	0.029	1.33
LDNO 132kV: NHH UMS	1&8	0.272						
LDNO 132kV: LV UMS (Pseudo HH Metered)	0	2.177	0.310	0.102				
LDNO 132kV: LV Generation NHH	8	-0.202						
LDNO 132kV: LV Sub Generation NHH	8	-0.206						
LDNO 132kV: LV Generation Intermittent	0	-0.202					0.068	
LDNO 132kV: LV Generation Non-Intermittent	0	-0.909	-0.103	-0.019			0.068	
LDNO 132kV: LV Sub Generation Intermittent	0	-0.206					0.070	
LDNO 132kV: LV Sub Generation Non-Intermittent	0	-0.933	-0.102	-0.018			0.070	
LDNO 132kV: HV Generation Intermittent	0	-0.187			9.84		0.079	
LDNO 132kV: HV Generation Non-Intermittent	0	-0.900	-0.075	-0.008	9.84		0.079	
LDNO 0000: Domestic Unrestricted	1	0.097			0.17			
LDNO 0000: Domestic Two Rate	2	0.125	0.011		0.17			
LDNO 0000: Domestic Off Peak (related MPAN)	2	0.011						
LDNO 0000: Small Non Domestic Unrestricted	3	0.064			0.18			
LDNO 0000: Small Non Domestic Two Rate	4	0.073	0.005		0.18			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	4	0.016						
LDNO 0000: LV Medium Non-Domestic	5-8	0.080	0.008		1.58			
LDNO 0000: LV Sub Medium Non-Domestic								
LDNO 0000: HV Medium Non-Domestic								
LDNO 0000: LV HH Metered	0	0.186	0.020	0.004	0.46	0.14	0.015	0.14
LDNO 0000: LV Sub HH Metered	0	0.158	0.013	0.002	0.43	0.37	0.014	0.37
LDNO 0000: HV HH Metered	0	0.142	0.011	0.001	5.13	0.44	0.010	0.44
LDNO 0000: NHH UMS	1&8	0.089						
LDNO 0000: LV UMS (Pseudo HH Metered)	0	0.712	0.102	0.033				
LDNO 0000: LV Generation NHH	8	-0.066						
LDNO 0000: LV Sub Generation NHH	8	-0.067						

London Power Networks - Effective from April 2012 - INDICATIVE LDNO Tariffs

	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)
LDNO 0000: LV Generation Intermittent	0	-0.066					0.022	
LDNO 0000: LV Generation Non-Intermittent	0	-0.298	-0.034	-0.006			0.022	
LDNO 0000: LV Sub Generation Intermittent	0	-0.067					0.023	
LDNO 0000: LV Sub Generation Non-Intermittent	0	-0.306	-0.033	-0.006			0.023	
LDNO 0000: HV Generation Intermittent	0	-0.061			3.22		0.026	
LDNO 0000: HV Generation Non-Intermittent	0	-0.295	-0.024	-0.003	3.22		0.026	

Annex 5 – Schedule of Line Loss Factors

London Power Networks - Effective from April 2012 - INDICATIVE LLF Time Periods					
Time periods	Period 1	Period 2	Period 3	Period 4	Period 5
	Peak	Summer Peak	Winter Shoulder	Night	Other
Monday to Friday November to February	16:00 - 19:59		07:00 - 15:59		
Monday to Friday June to August		07:00 - 19:59			
Monday to Friday March			07:00 - 19:59		
All Year				00:00 - 06:59	All Other Times
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	Period 5	Associated LLFC
Low Voltage Network	1.099	1.080	1.091	1.062	1.077	9,400,401,402,403,404,405,406,407,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,500,750,753,762,763,765,902,903,906,907,10,911,914,915,952,953,956,957,960,961,964,965,970,971
Low Voltage Substation	1.070	1.058	1.065	1.046	1.056	756, 781, 782
High Voltage Network	1.044	1.037	1.041	1.028	1.035	359, 751, 767
High Voltage Substation	1.034	1.030	1.032	1.026	1.029	791, 792
33kV Generic	1.025	1.022	1.024	1.018	1.021	796
33kV Generic	1.025	1.022	1.024	1.018	1.021	797
132kV Generic	1.002	1.002	1.002	1.002	1.002	798
132kV Generic	1.002	1.002	1.002	1.002	1.002	799

EHV Site Specific LLFs						
Demand						
Site	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
Network Rail - Bow	1.012	1.009	1.011	1.007	1.013	807
Bankside 1, 2 & 3	1.034	1.030	1.032	1.026	1.029	808
Glaxosmithkline - Dartford	1.015	1.014	1.015	1.014	1.015	809
NGC Barking Sub-Station - Barking	1.000	1.000	1.000	1.000	1.000	817
London Underground - Canal Junction	1.023	1.023	1.023	1.022	1.023	818
SELCHP - Deptford	1.002	1.002	1.002	1.002	1.002	827
Thames Water - Beckton	1.003	1.003	1.003	1.003	1.003	828
London Underground - Neasden	1.025	1.022	1.024	1.018	1.021	829

EHV Site Specific LLFs						
Demand						
Site	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
London Underground - Mansell Street	1.005	1.005	1.006	1.003	1.005	837
London Underground - Lots Road	1.005	1.005	1.005	1.004	1.005	838

London Underground - Stephenson Street, West Ham	1.003	1.003	1.003	1.003	1.003	839
Network Rail - Maiden Lane	1.051	1.050	1.049	1.048	1.049	840
Network Rail - Willesden 11KV	1.009	1.009	1.008	1.008	1.008	841
Network Rail - Willesden 25KV	1.007	1.006	1.007	1.005	1.006	842
Global Switch	1.005	1.005	1.005	1.005	1.005	843
Network Rail - Wimbledon	1.007	1.008	1.008	1.007	1.007	844
Network Rail - New Cross	1.000	1.000	1.000	1.000	1.000	845
Network Rail - Poole St (City Road)	1.010	1.008	1.010	1.008	1.009	846
Network Rail - Bromley 33KV	1.023	1.021	1.022	1.018	1.020	847
Network Rail - West Ham 25KV (Bidder St)	1.007	1.007	1.007	1.006	1.007	848
Network Rail - Poole St (Whiston Road)	1.017	1.014	1.014	1.011	1.013	849

EHV Site Specific LLFs						
Generation						
Site	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
GSK Dartford	1.002	1.002	1.002	1.002	1.002	799
London Underground - Neasden	1.025	1.022	1.024	1.018	1.021	728
NR Bow	1.002	1.002	1.002	1.002	1.002	799
NR West Ham 25kV	1.002	1.002	1.002	1.002	1.002	799
NR Willesden 25kV	1.002	1.002	1.002	1.002	1.002	799
RRRL Belvedere	1.002	1.002	1.002	1.002	1.002	799
SELCHP - Deptford - Export	0.997	0.997	0.996	0.996	0.997	730
Taylors Lane Power Station	1.002	1.002	1.002	1.002	1.002	799
Thames Water Beckton	1.002	1.002	1.002	1.002	1.002	799

Annex 6 - Un-scaled Nodal /Network Group costs

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges							
	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 1	1160	Demand		3.192		44.574	
Location 2	1165	Demand		3.192		44.574	
Location 3	1170	Demand		3.192		44.574	
Location 4	1175	Demand		3.192		44.574	
Location 5	1215	Demand		1.440		5.273	0.126
Location 6	1220	Demand		1.440		5.273	0.126
Location 7	1225	Demand		2.973		11.296	
Location 8	1290	Demand		3.297		11.337	
Location 9	1295	Demand		3.297		11.337	
Location 10	1300	Demand		2.973		11.296	
Location 11	1335	Demand		1.131		22.611	
Location 12	1340	Demand		1.131		22.611	
Location 13	1345	Demand		1.557		14.764	
Location 14	1350	Demand		1.557		14.764	
Location 15	1370	Demand		0.019			
Location 16	1375	Demand		0.019			
Location 17	1401	Demand	1402				
Location 18	1402	Demand	1403				
Location 19	1403	Demand					
Location 20	1465	Demand		2.016		8.097	
Location 21	1470	Demand		2.013		8.068	
Location 22	1475	Demand		2.016		8.097	
Location 23	1480	Demand		2.013		8.068	
Location 24	1500	Demand		2.373		40.791	
Location 25	1505	Demand		2.373		40.791	
Location 26	1510	Demand		1.660		10.897	
Location 27	1550	Demand		2.230		0.396	
Location 28	1551	Demand		2.254		0.387	
Location 29	1555	Demand		2.230		0.396	
Location 30	1556	Demand		2.254		0.387	
Location 31	1710	Demand		2.172		10.857	
Location 32	1715	Demand		2.172		10.857	
Location 33	1720	Demand		1.911		12.971	
Location 34	1725	Demand		1.911		12.971	
Location 35	1750	Demand		2.428		12.081	
Location 36	1755	Demand		2.428		15.154	
Location 37	1760	Demand		2.428		12.081	
Location 38	1765	Demand		2.428		15.154	
Location 39	1790	Demand		2.596		38.025	
Location 40	1795	Demand		2.568		37.979	

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 41	1800	Demand		2.596		38.025	
Location 42	1805	Demand		2.568		37.979	
Location 43	1825	Demand		2.768		42.006	
Location 44	1835	Demand		2.768		42.006	
Location 45	1840	Demand		2.768		42.006	
Location 46	1860	Demand		2.485		18.895	
Location 47	1870	Demand		2.485		18.895	
Location 48	1875	Demand		2.485		18.895	
Location 49	2015	Demand		3.310		6.540	
Location 50	2020	Demand		3.310		6.540	
Location 51	2025	Demand		3.283		6.568	
Location 52	2030	Demand		3.283		6.568	
Location 53	2055	Demand		1.211		26.243	
Location 54	2060	Demand		1.211		26.243	
Location 55	2065	Demand		1.324		27.017	
Location 56	2070	Demand		1.324		27.017	
Location 57	2090	Demand		1.412		28.378	
Location 58	2100	Demand		1.412		28.378	
Location 59	2105	Demand		1.412		28.378	
Location 60	2185	Demand		4.936		14.044	
Location 61	2190	Demand		4.936		14.044	
Location 62	2195	Demand		3.745		14.000	
Location 63	2200	Demand		3.745		14.000	
Location 64	2365	Demand		0.744		31.075	
Location 65	2370	Demand		0.744		31.075	
Location 66	2375	Demand		0.756		31.175	
Location 67	2380	Demand		0.756		31.175	
Location 68	2495	Demand		1.986		4.583	
Location 69	2500	Demand		1.986		4.583	
Location 70	2505	Demand		1.985		5.385	
Location 71	2510	Demand		1.985		5.385	
Location 72	2555	Demand		1.688		3.773	0.000
Location 73	2560	Demand		1.688		3.773	0.000
Location 74	2565	Demand		1.620		4.188	-0.000
Location 75	2570	Demand		1.620		4.188	-0.000

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 76	2640	Demand		0.638		3.668	0.000
Location 77	2645	Demand		1.250		3.530	0.000
Location 78	2680	Demand		3.566		0.023	
Location 79	2765	Demand		1.478		0.800	
Location 80	2770	Demand		1.479		0.799	
Location 81	2790	Demand		3.114		1.058	
Location 82	2795	Demand		3.136		1.174	
Location 83	2800	Demand		3.136		1.174	
Location 84	2845	Demand		3.114		1.058	
Location 85	2850	Demand		4.356		1.111	
Location 86	2855	Demand		4.356		1.111	
Location 87	2875	Demand		1.575			
Location 88	2880	Demand		1.750		0.000	
Location 89	2883	Demand		3.152			
Location 90	2887	Demand		3.152			
Location 91	2890	Demand	2895	1.575			
Location 92	2895	Demand		1.750		0.000	
Location 93	2960	Demand				0.002	
Location 94	2965	Demand				0.002	
Location 95	2975	Demand		2.025		0.246	
Location 96	2980	Demand		2.025		0.246	
Location 97	3017	Demand					
Location 98	3021	Demand					
Location 99	3080	Demand		1.063		0.609	0.002
Location 100	3085	Demand		2.810		1.171	
Location 101	3090	Demand		1.906		0.600	
Location 102	3155	Demand		1.063		0.609	0.002
Location 103	3160	Demand		1.906		0.600	
Location 104	3230	Demand		2.206		4.380	
Location 105	3245	Demand		4.282		0.749	
Location 106	3250	Demand		4.282		0.749	
Location 107	3350	Demand		0.060		0.655	
Location 108	3405	Demand		1.958		4.130	
Location 109	3410	Demand		1.958		4.130	
Location 110	3445	Demand		0.752		0.612	0.002

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 111	3450	Demand		0.749		1.175	0.003
Location 112	3455	Demand		0.749		1.175	0.003
Location 113	3460	Demand		0.752		0.612	0.002
Location 114	3465	Demand		0.626		0.002	
Location 115	3470	Demand		0.626		0.002	
Location 116	3510	Demand		2.214		15.987	
Location 117	3515	Demand		2.217		15.940	
Location 118	3545	Demand		2.482		9.721	
Location 119	3550	Demand		2.482		9.721	
Location 120	3555	Demand		2.482		9.721	
Location 121	3560	Demand		2.482		9.721	
Location 122	3610	Demand		3.278		41.098	
Location 123	3615	Demand		3.278		41.098	
Location 124	3620	Demand		2.165		19.621	
Location 125	3645	Demand		4.118		29.164	
Location 126	3650	Demand		4.118		29.164	
Location 127	3655	Demand		4.118		29.128	
Location 128	3660	Demand		4.118		29.128	
Location 129	3685	Demand		3.074		40.619	
Location 130	3690	Demand		3.074		40.619	
Location 131	3695	Demand		3.054		40.338	
Location 132	3700	Demand		3.054		40.338	
Location 133	3767	Demand				-1.240	
Location 134	3770	Demand		4.588		1.881	
Location 135	3775	Demand		4.588		1.881	
Location 136	3780	Demand		4.588		1.769	
Location 137	3785	Demand		4.588		1.769	
Location 138	3830	Demand		2.033		22.240	
Location 139	3835	Demand		2.033		22.222	
Location 140	3840	Demand		2.033		22.240	
Location 141	3845	Demand		2.033		22.222	
Location 142	3870	Demand		0.671		8.775	
Location 143	3875	Demand		0.711		8.997	
Location 144	3880	Demand		0.671		8.775	
Location 145	3885	Demand		0.711		8.997	

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 146	3910	Demand		4.181		0.810	
Location 147	3915	Demand		4.181		0.810	
Location 148	3920	Demand		4.182		0.921	
Location 149	3925	Demand		4.182		0.921	
Location 150	3950	Demand		3.350		0.915	
Location 151	3955	Demand		3.350		0.915	
Location 152	3980	Demand		2.719		0.827	
Location 153	3985	Demand		2.719		0.827	
Location 154	4050	Demand		2.550		24.667	
Location 155	4055	Demand		1.912		45.046	
Location 156	4104	Demand				0.592	
Location 157	4105	Demand		0.003		9.680	
Location 158	4110	Demand		0.003		9.680	
Location 159	4115	Demand		0.003		9.679	
Location 160	4120	Demand		0.003		9.679	
Location 161	4165	Demand		6.777			
Location 162	4170	Demand		6.777			
Location 163	4175	Demand		6.777			
Location 164	4180	Demand		6.777			
Location 165	4185	Demand		1.007		7.377	
Location 166	4190	Demand		0.731		6.862	
Location 167	4195	Demand		1.007		7.377	
Location 168	4200	Demand		0.731		6.862	
Location 169	4285	Demand		4.497		11.166	
Location 170	4290	Demand		4.444		11.427	
Location 171	4295	Demand		4.497		11.166	
Location 172	4300	Demand		4.444		11.427	
Location 173	4345	Demand		5.780		11.135	
Location 174	4350	Demand		5.780		11.382	
Location 175	4355	Demand		5.780		11.135	
Location 176	4360	Demand		5.780		11.382	
Location 177	4385	Demand		4.799		19.256	
Location 178	4390	Demand		4.799		19.256	
Location 179	4395	Demand		4.799		19.572	
Location 180	4400	Demand		4.799		19.572	

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 181	4435	Demand		4.028		37.835	
Location 182	4440	Demand		4.029		37.834	
Location 183	4565	Demand		2.649		7.624	
Location 184	4570	Demand		2.649		7.615	
Location 185	4575	Demand		2.649		7.624	
Location 186	4580	Demand		2.649		7.615	
Location 187	4605	Demand		6.832		25.954	
Location 188	4610	Demand		6.832		25.954	
Location 189	4615	Demand		6.842		33.628	
Location 190	4620	Demand		6.842		33.628	
Location 191	4665	Demand		6.801		25.834	
Location 192	4670	Demand	4680	6.801		25.834	
Location 193	4675	Demand		6.811		33.474	
Location 194	4680	Demand		6.811		33.474	
Location 195	4695	Demand		2.988		16.169	
Location 196	4700	Demand		2.988		16.169	
Location 197	4705	Demand		2.988		16.213	
Location 198	4710	Demand		2.988		16.213	
Location 199	4875	Demand		0.574		14.750	
Location 200	4880	Demand		0.574		14.750	
Location 201	4881	Demand		6.630		23.901	
Location 202	4885	Demand		0.656		14.689	
Location 203	4890	Demand		0.656		14.689	
Location 204	4955	Demand		2.226		0.004	
Location 205	4960	Demand		2.226		0.004	
Location 206	4965	Demand		2.565		12.343	
Location 207	4966	Demand		2.213		0.004	
Location 208	4967	Demand		2.565		12.330	
Location 209	4968	Demand		2.213		0.004	
Location 210	4969	Demand		2.565		12.330	
Location 211	4970	Demand		2.565		12.343	
Location 212	5030	Demand		0.119		17.415	
Location 213	5033	Demand		0.427		0.004	
Location 214	5060	Demand		2.294		21.127	
Location 215	5065	Demand		2.294		21.127	

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 216	5070	Demand		2.293		21.017	
Location 217	5075	Demand		2.293		21.017	
Location 218	5135	Demand		1.243		17.970	
Location 219	5140	Demand		1.711		25.012	
Location 220	5145	Demand		1.711		25.012	
Location 221	5200	Demand		2.568		20.417	
Location 222	5210	Demand		2.568		20.417	
Location 223	5215	Demand		2.568		20.417	
Location 224	5225	Demand		3.025		13.487	
Location 225	5230	Demand		3.025		13.487	
Location 226	5235	Demand		4.606		14.169	
Location 227	5240	Demand		4.606		14.169	
Location 228	5270	Demand		1.581		15.636	
Location 229	5275	Demand		1.581		15.636	
Location 230	5330	Demand		0.757		10.624	
Location 231	5340	Demand		0.757		10.624	
Location 232	5375	Demand		6.706		0.305	
Location 233	5380	Demand		6.706		0.305	
Location 234	5385	Demand		6.702		0.306	
Location 235	5390	Demand		6.702		0.306	
Location 236	5525	Demand		2.286		20.697	
Location 237	5530	Demand		2.286		20.697	
Location 238	5535	Demand		2.356		21.463	
Location 239	5540	Demand		2.356		21.463	
Location 240	5570	Demand		1.560		6.254	
Location 241	5575	Demand		1.560		6.254	
Location 242	5580	Demand		1.231		6.286	
Location 243	5585	Demand		1.231		6.286	
Location 244	5590	Demand		0.196		6.328	
Location 245	5595	Demand		0.196		6.328	
Location 246	5716	Demand		3.795		10.049	
Location 247	5720	Demand		4.179		32.405	
Location 248	5725	Demand		4.179		32.405	
Location 249	5726	Demand		3.104		9.987	
Location 250	5730	Demand		2.237		24.547	

London Power Networks - Effective from April 2012 - INDICATIVE Nodal/Zonal charges

	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 251	5735	Demand		2.237		24.547	
Location 252	5740	Demand		1.967		23.669	
Location 253	5745	Demand		1.967		23.669	
Location 254	5767	Demand	5769			6.113	
Location 255	5769	Demand				6.113	
Location 256	5776	Demand		-8.794			
Location 257	5777	Demand		-8.789			
Location 258	5815	Demand		2.349		18.415	
Location 259	5820	Demand		2.349		18.461	
Location 260	5825	Demand		2.349		18.415	
Location 261	5830	Demand		2.349		18.461	
Location 262	5855	Demand		1.949		11.556	
Location 263	5860	Demand		1.949		11.556	
Location 264	5865	Demand		1.994		11.553	
Location 265	5870	Demand		1.994		11.553	
Location 266	5960	Demand		0.508		9.629	
Location 267	5970	Demand		0.489		9.614	
Location 268	5975	Demand		0.489		9.614	
Location 269	6040	Demand		3.725			
Location 270	6045	Demand		3.725			
Location 271	6050	Demand		3.725			
Location 272	6055	Demand		3.725			
Location 273	6090	Demand		4.550			
Location 274	6095	Demand		4.550			
Location 275	6150	Demand		7.448		6.701	
Location 276	6155	Demand		7.448		6.701	
Location 277	6210	Demand		3.706		6.631	
Location 278	6275	Demand		1.423		4.644	
Location 279	6280	Demand		3.260		4.053	
Location 280	6285	Demand		3.260		4.053	
Location 281	6290	Demand		1.423		4.644	
Location 282	6295	Demand		2.864		3.538	
Location 283	6300	Demand		2.864		3.538	
Location 284	6380	Demand		2.321		7.592	
Location 285	6385	Demand		2.824		12.726	

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 286	6390	Demand		2.824		12.726	
Location 287	6395	Demand		2.321		7.592	
Location 288	6400	Demand		0.760		4.871	
Location 289	6405	Demand		0.760		4.871	
Location 290	6470	Demand		2.214		15.987	
Location 291	6475	Demand		2.217		15.940	
Location 292	6500	Demand		1.264		12.584	
Location 293	6505	Demand		1.263		12.589	
Location 294	6510	Demand		1.264		12.584	
Location 295	6515	Demand		1.263		12.589	
Location 296	6535	Demand		3.186		5.339	
Location 297	6540	Demand		2.944		4.180	
Location 298	6545	Demand		2.944		4.180	
Location 299	6550	Demand		3.186		5.339	
Location 300	6555	Demand		3.285		4.799	
Location 301	6560	Demand		3.285		4.799	
Location 302	6655	Demand		3.998		3.465	
Location 303	6660	Demand		1.870		4.307	
Location 304	6665	Demand		1.870		4.307	
Location 305	6670	Demand		3.998		3.465	
Location 306	6675	Demand		1.870		4.307	
Location 307	6680	Demand		1.870		4.307	
Location 308	6721	Demand		0.270		0.014	
Location 309	6722	Demand		0.270		0.014	
Location 310	6726	Demand		0.271		0.015	
Location 311	6727	Demand		0.271		0.015	
Location 312	6745	Demand		2.654		6.890	
Location 313	6750	Demand		2.721		7.665	
Location 314	6755	Demand		2.721		7.665	
Location 315	6820	Demand		2.654		6.890	
Location 316	6825	Demand		0.756		3.524	
Location 317	6830	Demand		0.756		3.524	
Location 318	6965	Demand		1.757		3.420	
Location 319	6970	Demand		1.604		3.414	
Location 320	6975	Demand		1.757		3.420	

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 321	6980	Demand		1.604		3.414	
Location 322	6981	Demand		2.633			
Location 323	6984	Demand		2.633			
Location 324	6995	Demand	7000	3.659	-0.000	0.007	0.008
Location 325	7000	Demand		3.659	-0.000	0.007	0.008
Location 326	7015	Demand		5.886		24.220	
Location 327	7018	Demand				4.092	-0.003
Location 328	7025	Demand		2.254	-1.574	15.030	
Location 329	7030	Demand		2.254	-1.574	15.030	
Location 330	7115	Demand		1.642		2.349	
Location 331	7120	Demand			-5.653	3.313	
Location 332	7125	Demand		4.574		2.532	
Location 333	7130	Demand			-5.653	3.313	
Location 334	7225	Demand		3.967		37.807	
Location 335	7230	Demand		3.967		37.807	
Location 336	7235	Demand		3.966		37.716	
Location 337	7240	Demand		3.966		37.716	
Location 338	7265	Demand		3.399		35.034	
Location 339	7275	Demand		3.399		35.034	
Location 340	7280	Demand		1.694		35.480	
Location 341	7320	Demand		0.750		17.344	
Location 342	7325	Demand		0.750		17.344	
Location 343	7330	Demand		0.405		16.758	
Location 344	7335	Demand		0.405		16.758	
Location 345	7435	Demand		4.531		18.794	0.087
Location 346	7440	Demand		4.542		18.782	0.087
Location 347	7445	Demand		4.531		18.794	0.087
Location 348	7450	Demand		4.542		18.782	0.087
Location 349	7505	Demand		1.574		31.094	
Location 350	7510	Demand		1.574		31.094	
Location 351	7515	Demand		1.609		31.221	
Location 352	7520	Demand		1.609		31.221	
Location 353	7547	Demand			-0.242	34.971	
Location 354	7552	Demand			-0.242	34.971	
Location 355	7555	Demand	7560	2.633			

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 356	7560	Demand		2.633			
Location 357	7590	Demand		3.203		0.021	
Location 358	7595	Demand		3.205		0.021	
Location 359	7600	Demand		3.205		0.021	
Location 360	7605	Demand		3.203		0.021	
Location 361	7610	Demand		3.203		0.021	
Location 362	7615	Demand		3.203		0.021	
Location 363	7700	Demand		4.049		0.106	
Location 364	7702	Demand	7710	2.120		0.054	
Location 365	7705	Demand		0.135		0.104	
Location 366	7710	Demand		0.841		0.013	
Location 367	7715	Demand		2.120		0.054	
Location 368	7772	Demand				0.185	
Location 369	7782	Demand				0.185	
Location 370	7789	Demand					
Location 371	7794	Demand					
Location 372	7890	Demand		1.805		5.657	
Location 373	7895	Demand		1.472		3.231	
Location 374	7900	Demand		1.472		3.231	
Location 375	7905	Demand		1.805		5.657	
Location 376	7910	Demand		2.473		9.480	
Location 377	7915	Demand		2.473		9.480	
Location 378	7965	Demand	7970	1.731		3.348	
Location 379	7970	Demand	7975	1.742		2.891	
Location 380	7975	Demand		0.062		1.429	
Location 381	7980	Demand		1.731		3.348	
Location 382	7985	Demand		1.742		2.891	
Location 383	7990	Demand		0.062		1.429	
Location 384	8075	Demand				4.042	
Location 385	8137	Demand					
Location 386	8142	Demand					
Location 387	8148	Demand					
Location 388	8151	Demand					
Location 389	8152	Demand					
Location 390	8162	Demand					

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 391	8164	Demand					
Location 392	8205	Demand	8210				
Location 393	8210	Demand					
Location 394	8220	Demand		5.299		6.303	
Location 395	8225	Demand		5.299		6.303	
Location 396	8230	Demand		5.300		6.287	
Location 397	8235	Demand		5.300		6.287	
Location 398	8270	Demand		2.174		16.674	
Location 399	8275	Demand		2.174		16.674	
Location 400	8280	Demand		2.264		16.565	
Location 401	8285	Demand		2.264		16.565	
Location 402	8310	Demand		1.197		15.080	
Location 403	8315	Demand		1.197		15.080	
Location 404	8320	Demand		1.197		15.080	
Location 405	8370	Demand		0.168		36.614	0.004
Location 406	8375	Demand		0.168		36.614	0.004
Location 407	8380	Demand		3.957	-0.000	33.913	
Location 408	8385	Demand		3.957	-0.000	33.913	
Location 409	8410	Demand		0.397		8.117	
Location 410	8415	Demand		0.397		8.117	
Location 411	8420	Demand		2.129		37.186	
Location 412	8425	Demand		2.129		37.186	
Location 413	8430	Demand		5.275		7.869	0.003
Location 414	8435	Demand		5.437		7.860	0.004
Location 415	8440	Demand		5.275		7.869	0.003
Location 416	8445	Demand		5.437		7.860	0.004
Location 417	8495	Demand		2.488		25.670	
Location 418	8500	Demand		2.488		25.670	
Location 419	8505	Demand		2.488		25.670	
Location 420	8510	Demand		2.488		25.670	
Location 421	8545	Demand		2.414		3.867	
Location 422	8550	Demand		2.414		3.867	
Location 423	8555	Demand		2.415		4.114	
Location 424	8560	Demand		2.415		4.114	
Location 425	8585	Demand		1.788		16.397	

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 426	8590	Demand		1.788		16.397	
Location 427	8595	Demand		1.803		16.345	
Location 428	8600	Demand		1.803		16.345	
Location 429	8605	Demand		3.440		27.764	
Location 430	8610	Demand		3.312		32.822	
Location 431	8615	Demand		3.440		27.764	
Location 432	8620	Demand		3.312		32.822	
Location 433	8665	Demand		1.872		11.689	
Location 434	8670	Demand		1.869		11.733	
Location 435	8675	Demand		1.872		11.689	
Location 436	8680	Demand		1.869		11.733	
Location 437	8685	Demand		2.799		19.609	0.003
Location 438	8690	Demand		2.799		19.609	0.003
Location 439	8695	Demand		2.803		19.847	0.003
Location 440	8700	Demand		2.803		19.847	0.003
Location 441	8750	Demand		1.519		9.632	
Location 442	8755	Demand		1.519		9.632	
Location 443	8760	Demand		2.075		10.757	
Location 444	8765	Demand		2.075		10.757	
Location 445	8770	Demand		4.160		22.455	
Location 446	8775	Demand		4.508		22.342	
Location 447	8780	Demand		4.160		22.455	
Location 448	8785	Demand		4.508		22.342	
Location 449	8865	Demand		0.089		3.718	0.000
Location 450	8875	Demand		0.089		3.540	0.000
Location 451	9083	Demand					
Location 452	9088	Demand					
Location 453	9101	Demand				0.032	
Location 454	9102	Demand				0.032	
Location 455	9120	Demand		1.643		31.836	
Location 456	9125	Demand		1.643		31.836	
Location 457	9130	Demand		1.697		31.801	
Location 458	9135	Demand		1.697		31.801	
Location 459	5687	Generation				31.295	
Location 460	8115	Generation	8120				1.372

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	Location name/ID	Demand or Generation	Linked location (if any)	Local charge 1 £/kVA/year	Local charge 2 £/kVA/year	Remote charge 1 £/kVA/year	Remote charge 2 £/kVA/year
Location 461	8120	Generation				8.494	
Location 462	1020	Demand					
Location 463	3025	Demand					
Location 464	1425	Demand					
Location 465	5165	Demand					