

**SP Manweb plc**

**Use of System Charging Statement**

**FINAL NOTICE**

**Effective from 1st April 2013**

**Version 1.0**

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

## Version Control

Version	Date	Description of version and any changes made
1	February 2013	Final Distribution Use of System Charges

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## 1. Introduction

- 1.1. This statement has been prepared in order to discharge SP Manweb plc's obligation under Standard Licence Condition 14 of our Electricity Distribution Licence. It contains information on our charges<sup>1</sup> 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 and the EHV Distribution Charging Methodology (EDCM) for Designated EHV Properties for MPANs / MSIDs connected to our designated distribution services area. 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:
- SP Energy Networks, Regulation and Commercial  
Prenton Way  
Birkenhead, Merseyside  
CH43 3ET  
Email : [commercial@scottishpower.com](mailto:commercial@scottishpower.com)  
Telephone 0151 609 2335
- 1.4. All enquiries regarding Connection Agreements should be addressed to:
- SP Energy Networks, Regulation and Commercial  
Prenton Way  
Birkenhead, Merseyside  
CH43 3ET  
Email : [commercial@scottishpower.com](mailto:commercial@scottishpower.com)  
Telephone 0151 609 2022
- 1.5. All enquiries regarding changes to Maximum Capacities should be addressed to:
- SP Energy Networks  
New Aldertson House

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<sup>1</sup> Charges can be positive or negative.

Dove Wynd  
Strathclyde Business Park  
Bellshill  
ML4 3FF  
Email : [capacityq@scottishpower.com](mailto:capacityq@scottishpower.com)  
Telephone 0141 614 1605

- 1.6. For all other queries please contact our general enquiries telephone number 0845 273 4444.

## **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 SP Manweb 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 SP Manweb 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) assigned 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 SP Manweb. 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.
- 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 in the spreadsheet that accompanies this statement<sup>2</sup>.
- 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 SP Manweb 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) assigned 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 SP Manweb. 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;
  - A capacity charge, pence/kVA/day, for agreed Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);

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<sup>2</sup> SP Manweb - Schedule of charges and other tables - Version7.xlsx

- 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.
- 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. Designated EHV Properties as calculated using the EDCM will be allocated the relevant charge structure set out in Annex 2.

#### **Time Periods for Half Hourly Metered Properties**

- 2.21. The time periods for the application of unit charges to LV & HV Designated Properties which are Half Hourly metered are as follows:
- Unit charges in the red time band apply – between 16:30 to 19:30, Mon to Fri including Bank Holidays
  - Unit charges in the amber time band apply – between 08:00 to 16:30, and 19:30 to 22:30, Mon to Fri including Bank Holidays and 16:00 to 20:00 Sat and Sun
  - Unit charges in the green time band apply – between 00:00 to 08:00 and 22:30 to 00:00, Mon to Fri including Bank Holidays, and 00:00 to 16:00 and 20:00 to 00:00 Sat and Sun
  - All times are UK clock time.

SP Manweb has not issued a notice to change the time bands.

- 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 19:30, Mon to Fri including Bank Holidays during Nov to Feb



- All times are UK clock time.

SP Manweb has not issued a notice to change the time bands.

### **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 SP Manweb deems to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001<sup>3</sup> and where operated in accordance with BSCP520<sup>4</sup>.

### **Time Periods for Half Hourly Unmetered Properties**

2.25. The time periods for the application of unit charges to connections which are pseudo HH metered are as follows:

- Unit charges in the black time band apply – between 16:30 to 19:30, Mon to Fri, November to February including Bank Holidays
- Unit charges in the yellow time band apply – between 08:00 to 16:30, and 19:30 to 22:30, Mon to Fri including Bank Holidays and 16:00 to 20:00 Sat and Sun, and between 16.30 to 19.30 Mon to Fri, March to October including Bank Holidays
- Unit charges in the green time band apply – between 00:00 to 08:00 and 22:30 to 00:00, Mon to Fri including Bank Holidays, and 00:00 to 16:00 and 20:00 to 00:00 Sat and Sun
- All times are UK clock time.

SP Manweb has not issued a notice to change the time bands.

### **Use of System Charges Out of Area**

2.26. SP Manweb 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 SP Manweb 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

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

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

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 SP Manweb using the contact details in paragraph 1.5.

- 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.

### **Demand Chargeable Capacity**

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

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**

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

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**

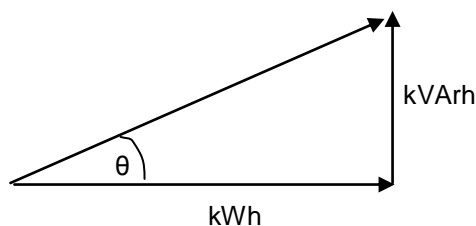
2.36. There is no minimum capacity threshold.

### **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

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

Where:

AE = Active Export in kWh

RI = Reactive Import in 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 SP Manweb 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 Company shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by SP Manweb 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 SP Manweb). The data shall be e-mailed to <mailto:uosadministrators2@scottishpower.com>

- 2.47. SP Manweb 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). SP Manweb 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 SP Manweb'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. Where an MPAN has an Invalid Settlement Combination, the 'LDNO HV: Domestic Unrestricted' fixed and unit charge will be applied as default until the invalid combination is corrected. Where there are multiple SSC-TPR combinations, the default 'LDNO HV: Domestic Unrestricted' fixed and unit charge will be applied. 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 <http://www.scottishpower.com/ConnectionsUseMetering.htm> .
- 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 SP Manweb 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 SP Manweb 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 lost<sup>5</sup> 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.

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<sup>5</sup> 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 network group costs**

- 5.1. The table in Annex 6 shows the un-scaled /network group 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.

### **Charges for New Designated EHV Properties**

- 5.3. When new Designated EHV Properties, that are not already included in the charging statement, are energised after publication of charging statements an addendum to the current statement will be issued incorporating the appropriate charges for the new site.
- 5.4. The form of the addendum is detailed in Annex 7 of this statement.
- 5.5. The addendum will be sent to DCUSA parties and published as a revised "Schedule of Charges and other tables" spreadsheet on our website. The addendum will include charge information that under enduring circumstances would be found in Annex 2 and line loss factors that would normally be found in Annex 5.
- 5.6. The new Designated EHV Properties charges will be added to Annex 2 in the next full statement released.

### **Demand Side Management**

- 5.7. For those premises where use of system is charged under the EDCM, some customers may be able to benefit from entering into a Demand Side Management ("DSM") Agreement with SP Manweb.
- 5.8. The DSM Agreement will be based upon a contractual commitment by the customer to materially reduce their MIC in certain time periods (which shall be determined by SP Manweb) in return for reduced Use of System Charges. Where a DSM Agreement is entered into, the applicable demand capacity costs will be based on the MIC minus the capacity subject to interruption.

- 5.9. EDCM customers wishing further details and/or wishing to enquire whether they can take advantage of a DSM Agreement should contact in the first instance:

The Distribution Policy Team

Regulation & Commercial

SP Manweb Plc

Dove Wynd

Strathclyde Business Park

Bellshill

ML4 3FF

Email: [commercial@sppowersystem.com](mailto:commercial@sppowersystem.com)

Telephone: 0141 614 0008

Fax: 0141 614 1663

## **6. Electricity Distribution Rebates**

- 6.1. SP Manweb 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**

None.

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

None.

## 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 " <a href="http://www.elexon.co.uk/ELEXON/Documents/trading_arrangements.pdf">www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf</a> ".
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.

<b>Term</b>	<b>Definition</b>
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"> <li>• 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</li> <li>• any transmission licensee in its capacity as operator of that licensee's transmission system or the GB transmission system;</li> <li>• 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.</li> </ul>
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.

<b>Term</b>	<b>Definition</b>
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. <a href="http://mddonline.elexon.co.uk/default.aspx">http://mddonline.elexon.co.uk/default.aspx</a>
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.

<b>Term</b>	<b>Definition</b>
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.

<b>Term</b>	<b>Definition</b>
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

SP Manweb - Effective from April 2013 - Final 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/kVAh	Excess Capacity charge (p/kVA/day)	Closed LLFCs
Domestic Unrestricted	101, 102	1	3.501			3.52				
Domestic Two Rate	103, 105, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 131, 132, 133, 134, 147, 148, 149, 150	2	4.284	0.397		3.52				145, 146
Domestic Off Peak (related MPAN)	104, 106, 130, 153, 155	2	0.376							135, 136, 137, 138, 140, 141, 142, 143
Small Non Domestic Unrestricted	201, 202, 203, 209	3	3.024			4.47				207
Small Non Domestic Two Rate	205, 211, 231, 232	4	3.336	0.233		4.47				208, 210
Small Non Domestic Off Peak (related MPAN)	212	4	0.286							233, 234, 235, 236, 237
LV Medium Non-Domestic	401, 402	5-8	3.452	0.218		21.07				
LV Sub Medium Non-Domestic	403, 404	5-8	3.132	0.197		26.42				
LV HH Metered	511, 591		15.226	1.057	0.182	17.40	2.35	0.629	2.35	501
LV Sub HH Metered	513, 592		13.531	0.724	0.154	6.14	4.87	0.490	4.87	503
HV HH Metered	515, 593		10.592	0.445	0.108	92.97	3.72	0.347	3.72	505
NHH UMS category A	900	8	1.624							904, 912, 913
NHH UMS category B	901	1	2.290							905
NHH UMS category C	902	1	3.961							906
NHH UMS category D	903	1	1.126							907
LV UMS (Pseudo HH Metered)	910		31.591	1.024	0.448					
LV Generation NHH	781, 782, 783, 784, 785	8	-1.163							
LV Sub Generation NHH	780	8	-1.039							
LV Generation Intermittent	786, 787		-1.163					0.345		
LV Generation Non-Intermittent	791, 795		-8.339	-0.909	-0.121			0.345		
LV Sub Generation Intermittent	788, 789		-1.039					0.320		
LV Sub Generation Non-Intermittent	792, 796		-7.559	-0.785	-0.109			0.320		
HV Generation Intermittent	770, 771		-0.673			67.89		0.242		
HV Generation Non-Intermittent	793, 797		-5.450	-0.380	-0.072	67.89		0.242		

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

### SP Manweb - Effective from April 2013 - Final EDCM Charges

Import LLFC - Unique Identifier	Export LLFC - Unique Identifier	Import MPANs / MSIDs	Export MPANs / MSIDs	Name	Import super-red unit rate (p/kWh)	Import fixed charge (p/day)	Import capacity rate (p/kVA/day)	Import exceeded capacity rate (p/kVA/day)	Export super-red unit rate (p/kWh)	Export fixed charge p/day	Export capacity rate (p/kVA/day)	Export exceeded capacity rate (p/kVA/day)
803	603	1300035361194	1300050649372	Shell Stanlow		19,618.24	3.94	3.94				
804		1300035352942		Jaguar & Land Rover	0.581	23,310.41	6.38	6.38				
805		1300035359423		Innospec		61,815.54	7.32	7.32				
806	606	1300051060972	1300051060981	Bridgewater Paper		114.56	2.71	2.71				
807		1300035359752		General Motors		9,039.13	5.42	5.42				
808		1300035360066		TATA Steel		23,902.58	6.70	6.70				
809		1300035362480		Urenco			5.03	5.03				
810		1300051694818		Ineos Chlor Ltd (Lostock)		43,915.84	2.90	2.90				
812		1300035356130		Knauf Insulation	0.588	1,054.82	10.84	10.84				
813		1300035359585		Air Products		1,158.72	10.61	10.61				
814		1300035359619		Shell Chemicals		5,334.90	11.61	11.61				
815		1300035359780		GrowHow		5,412.70	10.81	10.81				
816		1300053536398		Castle Cement		1,615.17	4.40	4.40				
817		1300035361992		Kronospan	1.667	4,266.37	14.73	15.99				
819	619	1300035365082	1300051136210	Albion Inorganic		228.99	2.34	2.34				
821	621	1300035367967	1300050649336	BHP		9,751.19	3.79	3.79				
822		1300060251601		Hole House Farm		5,924.21	6.28	6.28				
824	604	1300054940674	1300054940683	Port of Liverpool		6.94	2.40	2.40		1,041.26	0.65	0.65
827		1300052785147		Kimberley Clark		349.86	13.16	13.16				
828	628	1300060075390	1300060075405	Amegni		4.94	4.12	4.12		385.60	0.65	0.65
829	629	1300035400611	1300038004507	Salt Union		1,865.03	2.67	2.67				
831		1300035437700		Ineos Chlor Ltd (Percival Lane)		258.60	8.76	8.76				
833	663	1300035361803		Toyota		1,758.33	5.16	5.16				
834		1300051028651		Warrington Gas Storage		3,544.53	7.20	7.20				
835	635	1300050648875	1300050931602	Arpley Landfill		13.63	4.03	4.03				
836		1300035360800		Amcor	2.255	1,249.23	10.68	10.68				
838	638	1300052122840	1300052122859	Cemmaes C		4.61	5.31	5.31				
839	639	1300051822667	1300051821478	PG Strand Gate		2,102.18	5.87	5.87				
840	640	1300052545267	1300052545276	Moel Maelogan (A)		10.71	4.60	4.60				
841	641	1300052545285	1300052545294	Moel Maelogan (B)		5.39	4.62	4.62				
842	642	1300053022082	1300053022091	North Hoyle		263.37	1.51	1.51				
843	643	1300053466350	1300053466369	Cefn Croyes (3)		2,399.78	2.49	2.49				
844	644	1300053466378	1300053466387	Cefn Croyes (4)		2,403.68	2.48	2.48				
845	645	1300053834682	1300053834691	Tir Mostyn		443.11	3.47	3.47				
846	646	1300053862801	1300053862796	Mynydd Clogau	2.018	11.51	6.34	6.34				
847	647	1300053962107	1300053962116	Granox	0.650	161.48	5.31	5.31				
849	649	1300054624390	1300054624405	Braich Ddu		27.14	5.26	5.26				
851	611	1300054933348	1300054914140	Moel Maelogan 2		4.06	4.52	4.52		237.41	0.65	0.65
852	0	1300053310848		Trafalgar Dock	0.323	1,249.09	5.09	5.09				
853	653			CEW		78.63	2.76	2.76		1,644.41	0.65	0.65
854	654	1300060138720	1300060138739	Wern Ddu		31.71	5.17	5.17		1,538.08	0.65	0.65
856	656	1300060102617	1300060102608	Rhyl Flats		103.39	2.54	2.54		9,511.47	0.65	0.65
865	665	1300035438944	1300038004491	Cemmaes B		6.70	5.44	5.44				
866	666	1300037983737	1300037983746	Penthyddlan	2.092	9.38	9.00	9.00				
867	667	1300037983755	1300037983764	Lidartywaun	1.522	8.76	9.10	9.10				
868	668	1300035368906	1300050649381	Rhyd y Groes		54.11	8.37	8.37				
869	669	1300030308295	1300050649070	Llangwyrton		16.84	2.86	2.86				
870		1300030308295		Storenergy (Lostock)		917.77	7.71	7.71				
871	671	1300037983996	1300037984002	Rheidol WF		50.25	1.98	1.98				
872	672	1300037983913	1300037983922	Carno B		123.09	4.08	4.08				
873	673	1300037983899	1300037983904	Carno A		43.68	4.17	4.17				
874	674	1300035438572	1300050649390	Trysglwyn		18.11	8.51	8.51				
875	675	1300050649406	1300050649415	Llanabo		8.99	8.58	8.58		979.61	0.65	0.65
877		1300053593216		Quinn Glass		1,966.79	13.82	13.82				
878		1300054122122		Liverpool Int Bus Park	0.259	2,629.01	3.61	3.61				

887	687	1300035619768	1300050652905	Mynydd Gorduu		115.92	2.74	2.74					
898	698	1300051694552	1300051694827	PG Winnington		694.72	2.47	2.47					
921	691	1300050654248	1300060208518	Network Rail (Crewe)		5,682.01	6.67	6.67			1,420.50	0.65	0.65
922	682	1300050654257	1300060269895	Network Rail (Speke)		2,073.49	7.84	7.84	( 0.558)		691.16	0.65	0.65
923		1300050649994		Network Rail (Bankhall)	0.303	900.83	7.83	7.83					
924		1300050653040		Network Rail (Bromborough)		576.49	10.18	10.18					
925		1300050654220		Network Rail (Shore Road)		3,364.44	8.28	8.28					
MSID 7120	MSID 7120	MSID 7120	MSID 7120	Shotton Paper		31,257.37	1.91	1.91					
MSID 7203	MSID 7203	MSID 7203	MSID 7203	Burbo Bank		4,990.42							
MSID 0030		MSID 0030		Risley			11.55	11.55					
MSID 0031/32		MSID 0031/32		Bold			2.77	2.77					
MSID 4532/33	MSID 4532/33	MSID 4532/33	MSID 4532/33	Dolgarrog PS			6.60	6.60	( 3.067)			0.65	0.65
	MSID 6015		MSID 6015	Maentwrog PS					( 4.080)			0.65	0.65
MSID	MSID 4054		MSID 4054	Cwm Dyli PS					( 4.080)			0.65	0.65
300		1300035348714		Royal London Insurance	1.958	352.94	1.83	1.83					
301		1300035349160		Amerdale Ltd	0.212	352.94	5.45	5.45					
302		1300035349461		United Biscuits (Uk) Ltd		352.94	6.85	6.85					
303		1300035350156		Brocklebank Dock	2.415	352.94	8.79	8.79					
304		1300035351949		Bruntwood Limited	0.316	352.94	4.69	4.69					
305		1300035351958		L'pool Daily Post & Echo	0.335	352.94	6.25	6.25					
306		1300035352214		University Of Liverpool	0.330	352.94	4.88	4.88					
307		1300035352232		Norwepp Ltd	1.344	352.94	2.39	2.39					
308		1300035353050		New Capital Dev Ltd	0.316	352.94	6.79	6.79					
309		1300035354346		Chiron Vaccines Ltd	0.578	352.94	2.30	2.30					
310		1300035355465		Assidoman Print & Pack	2.753	352.94	8.13	8.13					
311		1300035355526		Bruntwood Ltd (Warrington)	2.531	352.94	4.12	4.12					
312		1300035358299		United Utilities Water Plc	2.527	352.94	9.87	9.87					
314		1300035359567		SCA Limited	0.722	352.94	7.34	7.34					
315		1300035359725		UU Water Plc - Sutton Hall	0.735	352.94	7.76	7.76					
316		1300035360386		Dairy Crest Ltd	7.401	352.94	5.58	5.58					
317		1300035360632		Tetra Pak Manufacturing Uk Ltd	6.794	352.94	2.46	2.46					
318		1300035360952		Hydro Aluminium Deeside Ltd	7.422	352.94	6.93	6.93					
319		1300035362719		British Polythene Industries Plc	1.692	352.94	8.14	8.14					
320		1300035363002		Stanton Land And Marine Ltd	4.860	1,371.55	3.85	3.85					
321		1300035364619		Bombardier UK Ltd	0.600	2,037.22	6.02	6.02					
322		1300035364707		Bentley Motor Cars Ltd	0.645	325.79	6.67	6.67		203.62		0.65	0.65
323		1300035366379		Tarmac Limited	2.308	176.47	4.29	4.29					
324		1300035369760		Texplan	7.543	352.94	10.43	10.43					
325		1300051555440		SCA	2.469	352.94	11.56	11.56					
326		1300052619849		Somerfield Plc	4.378	352.94	6.86	6.86					
327		1300035348644		Midland Bank	1.876	352.94	3.41	3.41					
328		1300035348662		Alliance & Leicester Plc	2.202	352.94	10.01	10.01					
329		1300035349035		Dairy Crest	0.185	352.94	4.61	4.61					
330		1300035349044		Yorkshire Copper Tube Ltd	0.204	2,390.16	5.39	5.39					
331		1300035349114		Kodak Ltd	0.195	352.94	2.27	2.27					
332		1300035349220		Delphi Lockheed Auto Ltd	0.197	352.94	4.24	4.24					
333		1300035349346		Thyssen Krupp (Group)	0.200	352.94	7.11	7.11					
334		1300035349355		New Horizon Global Ltd	0.176	352.94	2.64	2.64					
335		1300035349639		Seaforth Commill		352.94	5.79	5.79					
336		1300035349745		King Sturge Ltd	2.518	352.94	5.10	5.10					
337		1300035350680		News International Plc	0.191	352.94	3.67	3.67					
338		1300035351248		Essex International Limited	1.013	352.94	3.29	3.29					
339		1300035351735		Elizabeth II Law Courts	0.290	352.94	2.79	2.79					
340		1300035351967		Downing Property Services Ltd	0.324	352.94	5.76	5.76					
341		1300035352739		Canada Dock	2.541	352.94	3.27	3.27					
342		1300035352881		Rod & Components	0.846	352.94	1.77	1.77					
343		1300035352970		Liverpool Airport	0.319	352.94	9.51	9.51					
344		1300035354179		HP Chemie Pelzer Uk Ltd	0.312	352.94	5.78	5.78					
345		1300035354986		Novelis Uk Ltd	2.681	352.94	7.53	7.53					
346		1300035355118		PQ Silicas UK Ltd	2.691	529.41	5.65	5.65					
347		1300035355136		Baronet Works	2.633	3,585.24	8.72	8.72					
348		1300035355749		Unifrax Ltd	4.089	352.94	7.40	7.40					
349		1300035355837		Delta Metals	4.467	352.94	7.03	7.03					
350		1300035355970		M Baker Recycling Limited	4.509	352.94	5.83	5.83					
351		1300035356194		BOC Limited	4.554	352.94	12.08	12.08					
352		1300035356380		Daresbury Laboratory		352.94	5.46	5.46					
353		1300035356724		Gypsum		4,427.38	12.64	12.64					

354		1300035356770		Dyson Group Plc	0.897	352.94	8.58	8.58				
355		1300035356840		Marley Plumbing & Drainage	0.898	2,743.10	5.96	5.96				
356		1300035357009		Rockwood Additives Ltd	0.834	352.94	4.17	4.17				
357		1300035358795		Airbus Uk Ltd	2.194	352.94	9.21	9.21				
358		1300035359600		Greif Uk Ltd	0.751	352.94	7.91	7.91				
359		1300035359673		BP International Limited	0.710	352.94	3.87	3.87				
360		1300035359799		Shell UK Limited	0.789	352.94	7.53	7.53				
361		1300035359901		Owens Corning UK	2.159	352.94	11.76	11.76				
362		1300035360181		Cadbury Schweppes Plc	8.165	352.94	11.66	11.66				
363		1300035360580		Kelloggs Company Of GB Ltd	7.382	352.94	8.58	8.58				
364		1300035360679		Bryn Lane Properties Llp	7.070	1,371.55	1.76	1.76				
365		1300035360688		BICC Wrexham	7.723	352.94	8.00	8.00				
366		1300035361130		Bank	4.220	352.94	8.21	8.21				
367		1300035361812		Element Six Production Ltd	2.205	352.94	2.41	2.41				
368		1300035361983		Barry Callebaut (Uk) Ltd	4.513	352.94	8.63	8.63				
369		1300035362295		Caparo Steel Products Ltd	7.908	352.94	6.47	6.47				
370		1300035362700		Thermal Ceramics Ltd	0.767	352.94	2.97	2.97				
371		1300035362904		Egerton Dock	5.101	14,977.94						
372		1300035362978		Shell Uk Limited	5.488	352.94	6.01	6.01				
373		1300035363067		Mobil Sasol	1.030	352.94	5.11	5.11				
374		1300035363191		Burtens Foods Ltd	1.004	352.94	5.37	5.37				
375		1300035363225		Unilever UK	1.800	352.94	4.33	4.33				
376		1300035363252		Champion Properties LLP	1.006	352.94	7.86	7.86				
377		1300035363883	13000602638939	Nestle UK Ltd	1.900	206.65	1.89	1.89	146.25	0.65	0.65	
378		1300035364060		A&P Falmouth Ltd	4.963	2,390.16	6.36	6.36				
379		1300035364177		Barclays Bank Plc	0.913	352.94	13.24	13.24				
380		1300035364256		Harman Technology Limited	0.935	352.94	7.06	7.06				
381		1300035364432		Twyford's Bathrooms	2.107	352.94	3.17	3.17				
382		1300035364646		Morning Foods Limited	2.775	352.94	10.91	10.91				
383		1300035364822		Fisons	0.924	352.94	6.48	6.48				
384		1300035365161		N W F Ltd	2.781	352.94	20.49	20.49				
385		1300035365240		Linpac Wcb	0.957	352.94	8.63	8.63				
386		1300035365287		Britton Group Plc	0.966	352.94	14.87	14.87				
387		1300035366494		Synthite		352.94	12.17	12.17				
388		1300035366801		Novar Plc	1.651	352.94	7.33	7.33				
389		1300035368232		Bangor Hospital (Health Sup)	2.145	352.94	6.88	6.88				
390		1300035351860		Copperas Hill (Royal Mail)	0.307	352.94	3.36	3.36				
391		1300035368400		Bourne Leisure Limited	4.464	352.94	5.62	5.62				
392		1300035368428		Rehau Ltd	4.122	352.94	10.50	10.50				
393		1300035370116		University Of Wales	0.614	352.94	20.05	20.05				
394		1300035618356		Smiths Group Plc		352.94	3.96	3.96				
395		1300038178922		Yardley Plastic	0.184	352.94	6.24	6.24				
396		1300050410897		Ineos Chlor Ltd	1.076	352.94	4.38	4.38				
397		1300050455959		Tulip International Ltd	1.811	352.94	4.21	4.21				
398		1300050482127		Unilever Research	1.747	352.94	5.60	5.60				
399	717	1300050628390	1300050867852	Seaforth		1,246.86	2.59	2.59				
400		1300050632704		Decoma-Merplas	0.602	352.94	12.76	12.76				
401		1300050781976		Sonae UK Limited	0.205	4,780.32	5.25	5.25				
402		1300050955454		Gilbrook Dock	1.062	11,535.44						
403		1300050977573		UU Water Plc - Woodside	5.237	2,390.16	6.09	6.09				
404		1300050977670		UU Water Plc - Bromborough	1.837	2,390.16	4.69	4.69				
405		1300051438963		S Norton & Co. Ltd	2.512	2,390.16	2.83	2.83				
406		1300051517481		MOD - RAF Sealand	2.131	352.94	6.57	6.57				
407		1300051708346		Healthcare Distribution		352.94	6.16	6.16				
408		1300052182955		Aluminium Powder Company	9.043	352.94	13.18	13.18				
409		1300053398578		Chiron Vaccines	0.570	2,390.16	4.76	4.76				
410		1300054917684		ESP	0.303	352.94	3.31	3.31				
411		1300060172544		Neptune (Mann Island)	0.306	352.94	10.56	10.56				
412	710	1300035352260	1300051349870	L.A.H. Teaching Hospital	0.380	1,195.08	2.20	2.20				
413	711	1300035354123	1300052227204	UU Water Plc - Sandon Dock	2.435	588.23	5.75	5.75				
414	712	1300035355242	1300053163518	UU Water Plc Gateworth Sewage	2.467	315.61	3.65	3.65	( 2.479)	37.33	0.65	0.65
415	713	1300035359770	1300050970114	UU Water Plc - Huntington	4.359	200.00	13.90	13.90	( 0.683)	18.49	0.65	0.65
416	714	1300035401331	1300052226920	UU Water Plc - Shell Green	0.898	1,434.10	7.16	7.16				
417	715	1300035353148	1300052368838	Eli Lilly & Co	0.704	2,923.89	5.47	5.47				
418	703	1300035355794	1300050867791	Pilkington Glass - Greengate	4.509	1,567.49	4.51	4.51				
419	704	1300035355882	1300050867807	Pilkington Glass - Cowley Hill	4.367	1,164.44	3.68	3.68				
420	718	1300035355190	1300054580101	Iceland	2.459	335.29	11.98	11.98	( 3.189)	17.65	0.65	0.65
421		1300035359813		Meadow Foods Ltd	4.204	352.94	6.49	6.49				

472		1300035362746		Wirral Hospital	1.042	352.94	8.51	8.51				
473		1300060172562		Conway & Denbighshire NHS Trust	4.480	352.94	10.69	10.69				
474		1300035438261		Morrisons (Dist Centre)	1.001	352.94	8.71	8.71				
475		1300060172562		Mersey Travel (Mann Island)	0.310	176.47	2.62	2.62				
476		1300050712379		Pilkington Glass HO	4.557	352.94	6.21	6.21				
477		1300051517515		Mod - Raf Valley	8.741	352.94	12.71	12.71				
478		1300051517747		Mod - Shawbury	7.375	176.47	21.42	21.42				
479		1300035365640		Crewe Station	2.728	352.94	9.49	9.49				
480		1300051747708		Merseyside PTA	2.354	352.94	4.81	4.81				
481		1300035356255		Mackamax Primary		176.47	5.13	5.13				
482		1300035352906		Whiston Hospital	0.843	352.94	8.35	8.35				
483	716	1300052598765	1300052598756	Maw Green 2	0.608	10.70	1.59	1.59				
484	702	1300035355999	1300050867755	Pilkington Glass - Watson Street	4.801	1,195.08	2.13	2.13				
486		1300060340420		BAE Radway	2.807	1,804.67	7.82	7.82				
488				Unilever (Chester Gates)		221.63	11.14	11.14				
489		1300060222169		Unilever (Georgia)		352.90	2.56	2.56				

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

SP Manweb - Effective from April 2013 - Final 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			
Domestic Two Rate	145, 146	2	4.284	0.397		3.52			
Domestic Off Peak (related MPAN)	135, 136, 137, 138, 140, 141, 142, 143	2	0.376						
Small Non Domestic Unrestricted	207	3	3.024			4.47			
Small Non Domestic Two Rate	208, 210	4	3.336	0.233		4.47			
Small Non Domestic Off Peak (related MPAN)	233, 234, 235, 236, 237	4	0.286						
HV Medium Non-Domestic	405	5-8	2.049	0.121		181.24			
Notes:	Unit time periods are as specified in the SSC.								
	SP Manweb uses a default tariff for invalid settlement combinations these will be charged at the Domestic Unrestricted Rates.								
	The Domestic and Non-Domestic Off Peak (related MPAN) tariffs are supplementary to a standard published tariff and therefore only available under these conditions.								
	Preserved tariffs are only available to existing supplies, subject to certain conditions:								
	a) Suppliers may not normally transfer a meter point from one preserved tariff to another preserved tariff; b) If a supply under a preserved tariff should cease, other than on change of tenancy, the preserved tariff may not normally be restored; c) Any additional load required to be supplied on the preserved tariff must be within the existing supply capacity.								

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)
LV HH Metered	501		15.226	1.057	0.182	17.40	2.35	0.629	2.35
LV Sub HH Metered	503		13.531	0.724	0.154	6.14	4.87	0.490	4.87
HV HH Metered	505		10.592	0.445	0.108	92.97	3.72	0.347	3.72
Notes:	<b>Time Periods</b>								
	The time periods for each unit rate where applicable area as follows:								
	Unit charges in the red time band apply – between 16:30 to 19:30, Mon to Fri including Bank Holidays								
	Unit charges in the black time band apply – between 16:30 to 19:30, Mon to Fri including Bank Holidays November to February including Bank Holidays.								
	Unit charges in the amber time band apply – between 08:00 to 16:30 and 19:30 to 22:30, Mon to Fri including Bank Holidays and 16:00 to 20:00 Sat and Sun.								
	Unit charges in the yellow time band apply – between 08:00 to 16:30 and 19:30 to 22:30, Mon to Fri including Bank Holidays and 16:00 to 20:00 Sat and Sun, and between 16:30 to 19:30 Mon-Fri, March to October including Bank Holidays.								
	Unit charges in the green time band apply – between 00:00 to 08:00 and 22:30 to 00:00, Mon to Fri including Bank Holidays, and 00:00 to 16:00 and 20:00 to 00:00 Sat and Sun.								
All times are UK clock-time.									
Preserved tariffs are only available to existing supplies, subject to certain conditions:									
a) Suppliers may not normally transfer a meter point from one preserved tariff to another preserved tariff; b) If a supply under a preserved tariff should cease, other than on change of tenancy, the preserved tariff may not normally be restored; c) Any additional load required to be supplied on the preserved tariff must be within the existing supply capacity.									

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

SP Manweb - Effective from April 2013 - Final LDNO Tariffs									
	Unique billing identifier	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	2.383			2.40			
LDNO LV: Domestic Two Rate		2	2.916	0.270		2.40			
LDNO LV: Domestic Off Peak (related MPAN)		2	0.256						
LDNO LV: Small Non Domestic Unrestricted		3	2.058			3.04			
LDNO LV: Small Non Domestic Two Rate		4	2.271	0.159		3.04			
LDNO LV: Small Non Domestic Off Peak (related MPAN)		4	0.195						
LDNO LV: LV Medium Non-Domestic		5-8	2.350	0.148		14.34			
LDNO LV: LV HH Metered		0	10.364	0.719	0.124	11.84	1.60	0.428	1.60
LDNO LV: NHH UMS category A		8	1.105						
LDNO LV: NHH UMS category B		1	1.559						
LDNO LV: NHH UMS category C		1	2.696						
LDNO LV: NHH UMS category D		1	0.766						
LDNO LV: LV UMS (Pseudo HH Metered)		0	21.503	0.697	0.305				
LDNO LV: LV Generation NHH		8	-1.163						
LDNO LV: LV Generation Intermittent		0	-1.163					0.345	
LDNO LV: LV Generation Non-Intermittent		0	-8.339	-0.909	-0.121			0.345	
LDNO HV: Domestic Unrestricted		1	1.477			1.49			
LDNO HV: Domestic Two Rate		2	1.807	0.167		1.49			
LDNO HV: Domestic Off Peak (related MPAN)		2	0.159						
LDNO HV: Small Non Domestic Unrestricted		3	1.276			1.89			
LDNO HV: Small Non Domestic Two Rate		4	1.407	0.098		1.89			
LDNO HV: Small Non Domestic Off Peak (related MPAN)		4	0.121						
LDNO HV: LV Medium Non-Domestic		5-8	1.456	0.092		8.89			
LDNO HV: LV HH Metered		0	6.424	0.446	0.077	7.34	0.99	0.265	0.99
LDNO HV: LV Sub HH Metered		0	8.831	0.473	0.101	4.01	3.18	0.320	3.18
LDNO HV: HV HH Metered		0	7.716	0.324	0.079	67.72	2.71	0.253	2.71
LDNO HV: NHH UMS category A		8	0.685						
LDNO HV: NHH UMS category B		1	0.966						
LDNO HV: NHH UMS category C		1	1.671						
LDNO HV: NHH UMS category D		1	0.475						
LDNO HV: LV UMS (Pseudo HH Metered)		0	13.328	0.432	0.189				
LDNO HV: LV Generation NHH		8	-1.163						
LDNO HV: LV Sub Generation NHH		8	-1.039						
LDNO HV: LV Generation Intermittent		0	-1.163					0.345	
LDNO HV: LV Generation Non-Intermittent		0	-8.339	-0.909	-0.121			0.345	
LDNO HV: LV Sub Generation Intermittent		0	-1.039					0.320	
LDNO HV: LV Sub Generation Non-Intermittent		0	-7.559	-0.785	-0.109			0.320	
LDNO HV: HV Generation Intermittent		0	-0.673					0.242	
LDNO HV: HV Generation Non-Intermittent		0	-5.450	-0.380	-0.072			0.242	

LDNO HVplus: Domestic Unrestricted		1	1.107			1.11			
LDNO HVplus: Domestic Two Rate		2	1.355	0.126		1.11			
LDNO HVplus: Domestic Off Peak (related MPAN)		2	0.119						
LDNO HVplus: Small Non Domestic Unrestricted		3	0.956			1.41			
LDNO HVplus: Small Non Domestic Two Rate		4	1.055	0.074		1.41			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		4	0.090						
LDNO HVplus: LV Medium Non-Domestic		5-8	1.092	0.069		6.66			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	1.532	0.096		12.92			
LDNO HVplus: HV Medium Non-Domestic		5-8	1.119	0.066		98.95			
LDNO HVplus: LV HH Metered		0	4.815	0.334	0.058	5.50	0.74	0.199	0.74
LDNO HVplus: LV Sub HH Metered		0	6.619	0.354	0.075	3.00	2.38	0.240	2.38
LDNO HVplus: HV HH Metered		0	5.783	0.243	0.059	50.76	2.03	0.189	2.03
LDNO HVplus: NHH UMS category A		8	0.514						
LDNO HVplus: NHH UMS category B		1	0.724						
LDNO HVplus: NHH UMS category C		1	1.253						
LDNO HVplus: NHH UMS category D		1	0.356						
LDNO HVplus: LV UMS (Pseudo HH Metered)		0	9.989	0.324	0.142				
LDNO HVplus: LV Generation NHH		8	-0.569			-			
LDNO HVplus: LV Sub Generation NHH		8	-0.567			-			
LDNO HVplus: LV Generation Intermittent		0	-0.569			-		0.169	
LDNO HVplus: LV Generation Non-Intermittent		0	-4.079	-0.445	-0.059	-		0.169	
LDNO HVplus: LV Sub Generation Intermittent		0	-0.567			-		0.175	
LDNO HVplus: LV Sub Generation Non-Intermittent		0	-4.127	-0.429	-0.060	-		0.175	
LDNO HVplus: HV Generation Intermittent		0	-0.673			67.89		0.242	
LDNO HVplus: HV Generation Non-Intermittent		0	-5.450	-0.380	-0.072	67.89		0.242	
LDNO EHV: Domestic Unrestricted		1	0.800			0.80			
LDNO EHV: Domestic Two Rate		2	0.979	0.091		0.80			
LDNO EHV: Domestic Off Peak (related MPAN)		2	0.086						
LDNO EHV: Small Non Domestic Unrestricted		3	0.691			1.02			
LDNO EHV: Small Non Domestic Two Rate		4	0.762	0.053		1.02			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)		4	0.065						
LDNO EHV: LV Medium Non-Domestic		5-8	0.788	0.050		4.81			
LDNO EHV: LV Sub Medium Non-Domestic		5-8	1.107	0.070		9.34			
LDNO EHV: HV Medium Non-Domestic		5-8	0.808	0.048		71.48			
LDNO EHV: LV HH Metered		0	3.478	0.241	0.042	3.97	0.54	0.144	0.54
LDNO EHV: LV Sub HH Metered		0	4.781	0.256	0.054	2.17	1.72	0.173	1.72
LDNO EHV: HV HH Metered		0	4.177	0.176	0.043	36.67	1.47	0.137	1.47
LDNO EHV: NHH UMS category A		8	0.371						
LDNO EHV: NHH UMS category B		1	0.523						
LDNO EHV: NHH UMS category C		1	0.905						
LDNO EHV: NHH UMS category D		1	0.257						
LDNO EHV: LV UMS (Pseudo HH Metered)		0	7.216	0.234	0.102				
LDNO EHV: LV Generation NHH		8	-0.411			-			
LDNO EHV: LV Sub Generation NHH		8	-0.410			-			
LDNO EHV: LV Generation Intermittent		0	-0.411			-		0.122	
LDNO EHV: LV Generation Non-Intermittent		0	-2.947	-0.321	-0.043	-		0.122	
LDNO EHV: LV Sub Generation Intermittent		0	-0.410			-		0.126	
LDNO EHV: LV Sub Generation Non-Intermittent		0	-2.981	-0.310	-0.043	-		0.126	
LDNO EHV: HV Generation Intermittent		0	-0.486			49.04		0.175	
LDNO EHV: HV Generation Non-Intermittent		0	-3.937	-0.274	-0.052	49.04		0.175	
LDNO 132kV/EHV: Domestic Unrestricted		1	0.589			0.59			
LDNO 132kV/EHV: Domestic Two Rate		2	0.721	0.067		0.59			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		2	0.063						
LDNO 132kV/EHV: Small Non Domestic Unrestricted		3	0.509			0.75			
LDNO 132kV/EHV: Small Non Domestic Two Rate		4	0.561	0.039		0.75			



LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		4	0.048						
LDNO 132kV/EHV: LV Medium Non-Domestic		5-8	0.581	0.037		3.54			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.815	0.051		6.87			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.595	0.035		52.63			
LDNO 132kV/EHV: LV HH Metered		0	2.561	0.178	0.031	2.93	0.40	0.106	0.40
LDNO 132kV/EHV: LV Sub HH Metered		0	3.521	0.188	0.040	1.60	1.27	0.127	1.27
LDNO 132kV/EHV: HV HH Metered		0	3.076	0.129	0.031	27.00	1.08	0.101	1.08
LDNO 132kV/EHV: NHH UMS category A		8	0.273						
LDNO 132kV/EHV: NHH UMS category B		1	0.385						
LDNO 132kV/EHV: NHH UMS category C		1	0.666						
LDNO 132kV/EHV: NHH UMS category D		1	0.189						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)		0	5.313	0.172	0.075				
LDNO 132kV/EHV: LV Generation NHH		8	-0.303			-			
LDNO 132kV/EHV: LV Sub Generation NHH		8	-0.302			-			
LDNO 132kV/EHV: LV Generation Intermittent		0	-0.303			-		0.090	
LDNO 132kV/EHV: LV Generation Non-Intermittent		0	-2.170	-0.237	-0.031	-		0.090	
LDNO 132kV/EHV: LV Sub Generation Intermittent		0	-0.302			-		0.093	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent		0	-2.195	-0.228	-0.032	-		0.093	
LDNO 132kV/EHV: HV Generation Intermittent		0	-0.358			36.11		0.129	
LDNO 132kV/EHV: HV Generation Non-Intermittent		0	-2.899	-0.202	-0.038	36.11		0.129	
LDNO 132kV: Domestic Unrestricted		1	0.269			0.27			
LDNO 132kV: Domestic Two Rate		2	0.329	0.030		0.27			
LDNO 132kV: Domestic Off Peak (related MPAN)		2	0.029						
LDNO 132kV: Small Non Domestic Unrestricted		3	0.232			0.34			
LDNO 132kV: Small Non Domestic Two Rate		4	0.256	0.018		0.34			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		4	0.022						
LDNO 132kV: LV Medium Non-Domestic		5-8	0.265	0.017		1.62			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.372	0.023		3.14			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.272	0.016		24.03			
LDNO 132kV: LV HH Metered		0	1.169	0.081	0.014	1.34	0.18	0.048	0.18
LDNO 132kV: LV Sub HH Metered		0	1.608	0.086	0.018	0.73	0.58	0.058	0.58
LDNO 132kV: HV HH Metered		0	1.404	0.059	0.014	12.33	0.49	0.046	0.49
LDNO 132kV: NHH UMS category A		8	0.125						
LDNO 132kV: NHH UMS category B		1	0.176						
LDNO 132kV: NHH UMS category C		1	0.304						
LDNO 132kV: NHH UMS category D		1	0.086						
LDNO 132kV: LV UMS (Pseudo HH Metered)		0	2.426	0.079	0.034				
LDNO 132kV: LV Generation NHH		8	-0.138			-			
LDNO 132kV: LV Sub Generation NHH		8	-0.138			-			
LDNO 132kV: LV Generation Intermittent		0	-0.138			-		0.041	
LDNO 132kV: LV Generation Non-Intermittent		0	-0.991	-0.108	-0.014	-		0.041	
LDNO 132kV: LV Sub Generation Intermittent		0	-0.138			-		0.042	
LDNO 132kV: LV Sub Generation Non-Intermittent		0	-1.002	-0.104	-0.014	-		0.042	
LDNO 132kV: HV Generation Intermittent		0	-0.163			16.49		0.059	
LDNO 132kV: HV Generation Non-Intermittent		0	-1.324	-0.092	-0.017	16.49		0.059	
LDNO 0000: Domestic Unrestricted		1	-			-			
LDNO 0000: Domestic Two Rate		2	-	-		-			
LDNO 0000: Domestic Off Peak (related MPAN)		2	-						
LDNO 0000: Small Non Domestic Unrestricted		3	-			-			
LDNO 0000: Small Non Domestic Two Rate		4	-	-		-			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)		4	-						
LDNO 0000: LV Medium Non-Domestic		5-8	-	-		-			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	-	-		-			
LDNO 0000: HV Medium Non-Domestic		5-8	-	-		-			
LDNO 0000: LV HH Metered		0	-	-	-	-	-	-	-

LDNO 0000: LV Sub HH Metered		0	-	-	-	-	-	-	
LDNO 0000: HV HH Metered		0	-	-	-	-	-	-	
LDNO 0000: NHH UMS category A		8	-						
LDNO 0000: NHH UMS category B		1	-						
LDNO 0000: NHH UMS category C		1	-						
LDNO 0000: NHH UMS category D		1	-						
LDNO 0000: LV UMS (Pseudo HH Metered)		0	-	-	-				
LDNO 0000: LV Generation NHH		8	-			-			
LDNO 0000: LV Sub Generation NHH		8	-			-			
LDNO 0000: LV Generation Intermittent		0	-			-		-	
LDNO 0000: LV Generation Non-Intermittent		0	-	-	-	-		-	
LDNO 0000: LV Sub Generation Intermittent		0	-			-		-	
LDNO 0000: LV Sub Generation Non-Intermittent		0	-	-	-	-		-	
LDNO 0000: HV Generation Intermittent		0	-			-		-	
LDNO 0000: HV Generation Non-Intermittent		0	-	-	-	-		-	

## Annex 5 – Schedule of Line Loss Factors

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SP Manweb - Effective from April 2013 - Final LLF Time Periods				
Time periods	Period 1	Period 2	Period 3	Period 4
Monday to Friday Mar to Oct	23:30 – 07:30	07:30 – 23:30		
Monday to Friday Nov to Feb	23:30 – 07:30	20:00 – 23:30	07:30 – 16:00 19:00 – 20:00	16:00 – 19:00
Saturday and Sunday All Year	23:30 – 07:30	07:30 – 23:30		
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	1.091	1.112	1.128	1.151	101, 102, 103, 104, 105, 106, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 130, 131, 132, 133, 134, 135, 136, 137, 138, 140, 141, 142, 143, 145, 146, 147, 148, 149, 150, 153, 155, 201, 202, 203, 205, 211, 212, 231, 232, 233, 234, 235, 236, 237, 401, 402, 501, 511, 591, 781, 782, 783, 784, 785, 786, 787, 791, 795, 900, 901, 902, 903, 910
Low Voltage Substation	1.057	1.062	1.068	1.075	207, 208, 209, 210, 403, 404, 503, 513, 592, 780, 788, 789, 792, 796
High Voltage Network	1.033	1.04	1.046	1.051	405, 505, 515, 593, 770, 771, 793, 797
High Voltage Substation	1.025	1.028	1.031	1.034	300 TO 399 INCLUSIVE, 450 TO 499 INCLUSIVE, 772, 773, 794, 798
33kV Generic	1.012	1.013	1.014	1.015	
33kV Generic	1.017	1.019	1.022	1.024	
132kV Generic	1.004	1.005	1.006	1.007	
132kV Generic	1.000	1.000	1.000	1.000	

EHV Site Specific LLFs					
Demand					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Shell Stanlow	1.039	1.041	1.041	1.041	803
Jaguar & Land Rover	1.068	1.073	1.074	1.081	804
Associated Octel	1.039	1.041	1.041	1.046	805
Bridgewater Paper	1.051	1.050	1.058	1.050	806
Vauxhall Motors	1.026	1.028	1.027	1.031	807
TATA Steel	1.010	1.018	1.016	1.020	808
Urenco	1.028	1.028	1.028	1.030	809
Ineos Chlor Ltd (Lostock)	1.022	1.062	1.057	1.055	810
Knauf Insulation	1.053	1.063	1.062	1.067	812
Air Products	1.041	1.043	1.043	1.046	813
Shell Chemicals	1.039	1.042	1.040	1.044	814
GrowHow	1.043	1.045	1.044	1.048	815
Castle Cement	1.019	1.026	1.021	1.033	816
Kronospan	1.037	1.053	1.083	1.072	817
Albion Inorganic	1.042	1.070	1.064	1.089	819
BHP	1.033	1.056	1.050	1.065	821
Hole House Farm	1.017	1.019	1.022	1.024	822
Port of Liverpool	1.034	1.040	1.039	1.027	824
Kimberley Clark	1.046	1.087	1.062	1.082	827
Amegni	1.011	1.026	1.017	1.047	828
Salt Union	1.060	1.067	1.065	1.069	829
Ineos Chlor Ltd (Percival Lane)	1.065	1.066	1.064	1.071	831
Toyota	1.019	1.070	1.069	1.076	833
Warmingham Gas Storage	1.054	1.074	1.073	1.086	834
Arpley Landfill	1.000	1.051	1.036	1.000	835
Amcor	1.021	1.030	1.025	1.038	836
Cemmaes C	1.043	1.051	1.100	1.089	838
PG Strand Gate	1.030	1.041	1.037	1.037	839
Moel Maelogan (A)	1.015	1.015	1.017	1.023	840
Moel Maelogan (B)	1.015	1.015	1.017	1.023	841
North Hoyle	1.019	1.037	1.031	1.048	842

Cefn Croyes (3)	1.068	1.064	1.066	1.083	843
Cefn Croyes (4)	1.068	1.064	1.066	1.083	844
Tir Mostyn	1.024	1.056	1.053	1.057	845
Mynydd Clogau	1.006	1.038	1.031	1.051	846
Granox	1.012	1.021	1.018	1.026	847
Braich Ddu	1.017	1.007	1.078	1.013	849
Stublach	1.018	1.029	1.021	1.043	850
Moel Maelogan 2	1.015	1.015	1.017	1.023	851
Trafalgar Dock	1.065	1.068	1.067	1.073	852
CEW	1.017	1.019	1.022	1.024	853
Wern Ddu	1.027	1.047	1.036	1.058	854
Rhyl Flats	1.009	1.009	1.008	1.017	856
Cemmaes B	1.043	1.051	1.100	1.089	865
Penrhyddlan	1.020	1.051	1.055	1.082	866
Llidartywaun	1.008	1.038	1.046	1.067	867
Rhyd y Groes	1.010	1.007	1.013	1.011	868
Llangwyrfon	1.024	1.038	1.029	1.059	869
Storenergy (Lostock)	1.004	1.005	1.006	1.007	870
Rheidol	1.003	1.007	1.009	1.023	871
Carno B	1.011	1.026	1.017	1.047	872
Carno A	1.011	1.026	1.017	1.047	873
Trysglwyn	1.011	1.020	1.028	1.053	874
Llanabo	1.010	1.011	1.014	1.018	875
Quinn Glass	1.040	1.042	1.042	1.046	877
Liverpool International Business Park	1.065	1.069	1.068	1.076	878
Mynydd Gorduu	1.037	1.056	1.012	1.083	887
PG Winnington	1.067	1.065	1.059	1.000	898
Network Rail (Crewe)	1.039	1.049	1.051	1.058	921
Network Rail (Speke)	1.079	1.073	1.072	1.077	922
Network Rail (Bankhall)	1.065	1.070	1.069	1.076	923
Network Rail (Bromborough)	1.042	1.047	1.045	1.053	924
Network Rail (Shore Road)	1.039	1.043	1.042	1.047	925
Shotton Paper	1.000	0.999	1.000	0.999	MSID 7120
Burbo Bank	0.998	1.000	0.999	1.000	MSID 7203
Risley	1.029	1.039	1.038	1.034	MSID 0030
Bold	1.042	1.050	1.061	1.124	MSID 0031 / 0032
Dolgarrog PS	0.984	0.990	0.986	0.991	MSID 4532 / 4533
Rheidol PS	0.989	0.990	0.987	0.985	MISD 5025

EHV Site Specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Shell Stanlow	1.025	1.030	1.030	1.032	603
Port of Liverpool	1.003	1.005	1.003	1.006	604
Bridgewater Paper	1.003	1.003	1.011	1.013	606
Moel Maelogan 2	0.962	0.966	0.969	0.975	611
Albion Inorganic	1.022	1.034	1.041	1.017	619
BHP	1.021	1.041	1.036	1.057	621
Amegni	0.993	1.005	0.997	1.018	628
Salt Union	1.031	1.033	1.032	0.981	629
Arpley Landfill	1.004	1.034	1.031	1.022	635
Cemmaes C	0.961	0.955	0.970	0.960	638
PG Strand Gate	0.989	0.996	0.994	1.001	639
Moel Maelogan A	0.962	0.966	0.969	0.975	640
Moel Maelogan B	0.962	0.966	0.969	0.975	641
North Hoyle	0.984	0.999	0.991	1.004	642
Cefn Croes 3	1.046	1.057	1.058	1.069	643
Cefn Croes 4	1.037	1.048	1.046	1.057	644
Tir Mostyn	0.978	0.998	0.984	1.001	645
Mynydd Clogau	1.002	1.017	1.022	1.028	646
Granox	1.009	1.018	1.016	1.024	647
Braich Ddu	0.967	0.990	0.999	0.930	649
CEW	1.012	1.013	1.014	1.015	653
Wem Ddu	1.017	0.989	0.982	1.036	654
Rhyl Flats	0.985	0.996	0.984	0.971	656
Cemmaes B	0.961	0.955	0.970	0.960	665
Penrhyddlan	0.992	0.986	0.949	0.963	666
Llidartywaun	0.972	0.984	0.962	0.980	667
Rhyd y Groes	0.983	0.983	0.983	0.986	668
Llangwyrfon	0.990	1.000	1.013	1.029	669
Rheidol	1.018	1.031	1.034	1.049	671
Carno B	0.993	1.005	0.997	1.018	672
Carno A	0.993	1.005	0.997	1.018	673
Trysglwyn	0.999	0.999	0.997	0.992	674
Llanabo	0.987	0.982	0.985	0.988	675
Mynydd Gorddu	1.023	1.045	1.049	1.065	687
Network Rail (Crewe)	1.000	1.000	1.000	1.000	691
Network Rail (Speke)	1.000	1.000	1.000	1.000	682
PG Winnington	0.993	1.007	1.003	1.016	698
Shotton Paper	1.000	0.999	1.000	0.999	MSID 7120
Burbo Bank	0.998	1.000	0.999	1.000	MSID 7203
Dolgarrog PS	0.984	0.990	0.986	0.991	MSID 4532 / 4533
Rheidol PS	0.989	0.990	0.987	0.985	MSID 5025
Maentwrog PS	0.925	0.930	0.972	0.959	MSID 6015
Cwm Dyli PS	0.974	0.990	0.999	0.989	MSID 4054

## **Annex 6 - Un-scaled network group costs**

The un-scaled FCP network group locational charges can be found in the Schedule of Charges from our web-site:

<http://www.scottishpower.com/ConnectionsUseMetering.htm> .

**Annex 7 – Addendum to charging statement detailing Charges for New Designated EHV Properties**