

SP MANWEB PLC

Use of System Charging Statement

INDICATIVE NOTICE

Effective from 1st April 2015

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

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

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1. Introduction

- 1.1. This statement tells you about our charges and the reasons behind them. It has been prepared consistent with Standard Licence Condition 14 of our Electricity Distribution Licence. The main purpose of this statement is to provide our schedule of charges¹ for the use of our Distribution System and to provide the schedule of adjustment factors² that should be applied in Settlement to account for losses from the Distribution System. We have also included guidance notes in Appendix 2 to help improve your understanding of the charges we apply.
- 1.2. Within this statement we use terms such as 'Users' and 'Customers' as well as other terms which are identified with initial capitalisation. These terms are defined in the glossary.
- 1.3. The charges in this statement are calculated using the Common Distribution Charging Methodology (CDCM) for Low Voltage and High Voltage (LV and HV) Designated Properties and the Extra-high Voltage (EHV) Distribution Charging Methodology (EDCM) for Designated EHV Properties.
- 1.4. Separate charges are calculated depending on the characteristics of the connection and whether the use of the Distribution System is for demand or generation purposes. Where a generation connection is seen to support the Distribution System the charges will be negative and the Supplier will receive credits for exported energy.
- 1.5. The application of charges to premises can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on how to identify and calculate the charge that will apply for your premise is provided in the guidance notes in Appendix 2.
- 1.6. All charges in this statement are shown **exclusive** of VAT. Invoices will include VAT at the applicable rate.
- 1.7. The annexes that form part of this statement are also available in spreadsheet format. This spreadsheet contains supplementary information used for charging purposes and a simple model to assist you to calculate charges. This spreadsheet can be downloaded from:

¹ Charges can be positive or negative.

² Also known as Loss Adjustment Factors or Line Loss Factors

http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp.

Validity period

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

Contact details

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

SP Energy Networks, Regulation and Commercial
Prenton Way
Birkenhead, Merseyside
CH43 3ET
Email: commercial@scottishpower.com
Telephone: 0141 614 5851

- 1.12. All enquiries regarding connection agreements and changes to maximum capacities should be addressed to:

SP Energy Networks
Ochil House
10 Technology Avenue
Hamilton International Technology Park
Blantyre
G72 0HT
Email: capacityq@scottishpower.com
Telephone: 0141 614 1605

1.13. For all other queries please contact our general enquiries telephone number:
0330 10 10 4444.

2. Charge application and definitions

- 2.1. The following section details how the charges in this statement are applied and billed to Users of our Distribution System.
- 2.2. We utilise two billing approaches depending on the type of metering data received. The 'Supercustomer' approach is used for Non-Half-Hourly (NHH) metered, NHH unmetered or aggregated Half-Hourly (HH) metered premises and the 'Site-specific' approach is used for HH metered or pseudo HH unmetered premises.
- 2.3. Typically NHH metered are domestic and small businesses, HH metered are larger businesses and unmetered premises are normally streetlights.

Supercustomer billing and payment

- 2.4. Supercustomer billing and payment applies to metering points registered as NHH metered, NHH unmetered or aggregated HH metered. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Non Half Hourly Distribution Use of System (DUoS) Report' data flow.
- 2.5. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our distribution system. Invoices are reconciled, over a period of approximately 14 months to reflect later and more accurate consumption figures.
- 2.6. The charges are applied on the basis of the LLFC assigned to a Meter Point Administration Number (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) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion.

Supercustomer charges

- 2.7. Supercustomer charges include the following components:
 - a fixed charge - pence/MPAN/day; there will be only one fixed charge applied to each MPAN; and
 - unit charges, pence/kWh; more than one unit charge may apply depending on the type of tariff for which the MPAN is registered.

- 2.8. Users who supply electricity to a Customer whose metering system is:
- Measurement Class A or B, and settled on Profile Classes (PC) 1 through to 8;
- or
- Measurement Class F or G;
- will be allocated the relevant charge structure set out in Annex 1.
- 2.9. Measurement Class A charges apply to Exit/Entry Points where NHH metering is used for Settlement.
- 2.10. Measurement Class B charges apply to Exit Points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001³ and where operated in accordance with Balancing and Settlement Code (BSC) procedure 520⁴.
- 2.11. Measurement Class F and G charges apply to Exit/Entry Points where HH aggregated metering data is used for Settlement.
- 2.12. Identification of the appropriate charge can be made by cross-reference to the LLFC.
- 2.13. Valid Settlement PC/SSC/ Meter Timeswitch Code (MTC) combinations for LLFCs where the Metering System is Measurement Class A and B are detailed in Market Domain Data (MDD).
- 2.14. Where an MPAN has an invalid Settlement combination, the 'Domestic Unrestricted' fixed and unit charges 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 charges will be applied for each invalid TPR combination.
- 2.15. The time periods for unit charges where the Metering System is Measurement Class A and B are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spread sheet that accompanies this statement⁵.

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 are available from <http://www.elexon.co.uk/pages/bscps.aspx>

⁵ SPM - Schedule of charges and other tables – Dec 14.xlsx

- 2.16. The time periods for unit charges where the Metering System is Measurement Class F and G are set out in the table 'Time Bands for Half Hourly Metered Properties' in Annex 1.
- 2.17. The 'Domestic Off-Peak' and 'Small Non-Domestic Off-Peak' charges are additional to either an unrestricted or a two-rate charge.

Site-specific billing and payment

- 2.18. Site-specific billing and payment applies to Measurement Class C, D and E metering points settled as HH metered. The site-specific billing and payment approach to Use of System (UoS) billing makes use of HH metering data at premise level received through Settlement.
- 2.19. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment that may be necessary following the receipt of actual data from the User.
- 2.20. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the Meter System Identifier (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.21. All LLFCs are assigned at our sole discretion. Where an incorrectly applied LLFC is identified, we may at our sole discretion apply the correct LLFC and/or charges.

Site-specific billed charges

- 2.22. Site-specific billed charges may include the following components:
- a fixed charge pence/MPAN/day or pence/MSID/day;
 - a capacity charge, pence/kVA/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
 - an excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
 - unit charges, pence/kWh, more than one unit charge may be applied;
- and
- an excess reactive power charge, pence/kVArh, for each unit in excess of the reactive charge threshold.

- 2.23. Users who wish to supply electricity to customers whose metering system is Measurement Class C, D or E or CVA will be allocated the relevant charge structure dependent upon the voltage and location of the metering point.
- 2.24. Measurement Class C, E or CVA charges apply to Exit/Entry Points where HH metering, or an equivalent meter, is used for Settlement purposes.
- 2.25. Measurement Class D charges apply to Exit points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001⁶ and where operated in accordance with BSC procedure 520⁷.
- 2.26. Fixed charges are generally levied on a pence per MPAN/ MSID basis.
- 2.27. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.28. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
- 2.29. Where LV and HV Designated Properties or Designated EHV Properties have more than one point of connection (as identified in the Connection Agreement) then separate charges will be applied to each point of connection.

Time periods for half-hourly metered properties

- 2.30. The time periods for the application of unit charges to LV and HV Designated Properties that are HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.
- 2.31. The time periods for the application of unit charges to Designated EHV Properties are detailed in Annex 2. We have not issued a notice to change the time bands.

Time periods for pseudo half-hourly unmetered properties

- 2.32. The time periods for the application of unit charges to connections that are pseudo HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.

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

⁷ Balancing and Settlement Code Procedures on unmetered supplies and available from <http://www.elexon.co.uk/pages/bscps.aspx>

Application of capacity charges

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

Chargeable capacity

2.34. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.

2.35. The MIC/MEC will be agreed with us at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time of connection or later) no reduction in MIC/MEC will be allowed for a period of one year.

2.36. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the customer's maximum demand. The new MIC/MEC will be applied from the start of the next billing period after the date that the request was received. It should be noted that, where a new lower level is agreed, the original capacity may not be available in the future without the need for network reinforcement and associated charges.

2.37. 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 premise's connection. A customer can seek to agree or vary the MIC and/or MEC by contacting us using the contact details in section 1.

Exceeded capacity

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

Demand exceeded capacity

$$\text{Demandexceeded capacity} = \max(2 \times \sqrt{AI^2 + \max(RI, RE)^2} - MIC, 0)$$

Where:

AI = Active Import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

- 2.39. Only reactive import and reactive export values occurring at times of active import are used in the calculation. For sites which are importing and exporting in the same HH, i.e. where active import is not equal to zero and active export is not equal to zero, use zero for reactive import and reactive export when calculating capacity taken.
- 2.40. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Generation exceeded capacity

$$\text{Generation exceeded capacity} = \max(2 \times \sqrt{AE^2 + \max(RI, RE)^2} - MEC, 0)$$

Where:

AE = Active Export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

- 2.41. Only reactive import and reactive export values occurring at times of active export are used in the calculation. For sites which are importing and exporting in the same HH, i.e. where active import is not equal to zero and active export is not equal to zero, use zero for reactive import and reactive export when calculating capacity taken.
- 2.42. This calculation is completed for every half hour and the maximum value from the billing period is applied.

Standby capacity for additional security on site

- 2.43. Where standby capacity charges are applied, the charge will be set at the same rate as that applied to normal MIC. Where, at the customer's request, for additional security of supplies requiring sterilisation of capacity at two different

sources of supply, we reserve the right to charge for the capacity held at each source.

Minimum capacity levels

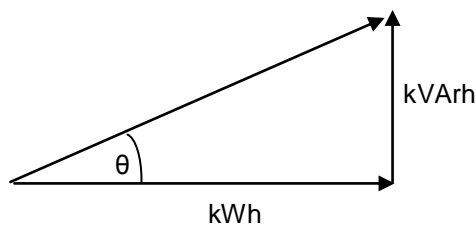
2.44. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.45. When an individual HH metered MPAN's reactive power (measured in kVArh) at LV and HV Designated Properties exceeds 33% of total active power (measured in kWh), excess reactive power charges will apply. This threshold is equivalent to an average power factor of 0.95 during the period. Any reactive units in excess of the 33% threshold are charged at the rate appropriate to the particular charge.

2.46. Power Factor is calculated as follows:

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



2.47. The chargeable reactive power is calculated as follows:

Demand chargeable reactive power

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

2.48. Only reactive import and reactive export values occurring at times of active import are used in the calculation. For sites which are importing and exporting in the same HH i.e. where active import is not equal to zero and active export is

not equal to zero, no calculation for that HH is made and the result for that HH would be zero.

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

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

Generation chargeable reactive power

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

Where:

AE = Active Export (kWh)

RI = Reactive Import (kVArh)

RE = Reactive Export (kVArh)

2.51. Only reactive import and reactive export values occurring at times of active export are used in the calculation. For sites which are importing and exporting in the same HH i.e. where active import is not equal to zero and active export is not equal to zero, no calculation for that HH is made and the result for that HH would be zero.

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

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

Incorrectly allocated charges

2.54. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection and metering information. We are responsible for deciding the voltage of connection while the Supplier determines and provides the metering information.

2.55. Generally, the voltage of connection is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected customer. This is normally established when the MPAN/MSID is created and will include information about whether the MPAN/MSID is for import or export purposes. Where an MPAN/MSID is used for export purposes the type of generation (intermittent or non-intermittent) will also be determined.

- 2.56. The Supplier provides us with metering information which enables us to allocate charges where there is more than one charge per voltage level. This metering data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When this happens we will change the allocation of charges accordingly.
- 2.57. Where it has been identified that a charge is likely to be incorrectly allocated due to the wrong voltage of connection (or import/export details) then a correction request must be made to us. Requests from persons other than the current Supplier must be accompanied by a Letter of Authority from the Customer; the existing Supplier must also be informed. Any request must be supported by an explanation of why it is believed that the current charge is wrongly applied along with supporting information, including, where appropriate photographs of metering positions or system diagrams. Any request to correct the current charge that also includes a request to backdate the correction must include justification as to why it is considered appropriate to backdate the change.
- 2.58. If it has been identified that a charge has been incorrectly allocated due to the metering data then a correction request should be made to the Supplier.
- 2.59. Where we agree that an MPAN/MSID has been assigned to the wrong voltage level then we will correct it by allocating the correct set of charges for that voltage level. Any adjustment for incorrectly applied charges will be as follows:
- Any credit or additional charge will be issued to the Supplier/s who were effective during the period of the change.
 - The correction will be applied from the date of the request, back to the date of the incorrect allocation or, up to the maximum period specified by the Limitation Act (1980), in England and Wales, which covers a six year period and the Prescription, whichever is the shorter.
- 2.60. Should we reject the request a justification will be provided to the requesting Party.
- 2.61. We shall not unreasonably withhold or delay any agreement to correct the charges applied and would expect to reach agreement within three months from the date of request.

Generation charges for pre-2005 designated EHV properties

2.62. Designated EHV Properties that were connected to the distribution system under a pre-2005 connection charging policy are eligible for exemption from UoS charges for generation unless one of the following criteria has been met:

- 25 years have passed since their first energisation/connection date (i.e. Designated EHV Properties with connection agreements dated prior to 1st April 2005, and for which 25 years has passed since their first energisation/connection date will receive use of system charges for generation from the next charging year following the expiry of their 25 years exemption, (starting 1st April), or
- the person responsible for the Designated EHV Property has provided notice to us that they wish to opt in to UoS charges for generation.

If a notice to opt in has been provided there will be no further opportunity to opt out.

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

Provision of billing data

2.64. Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or the Distribution Connection and Use of System Agreement (DCUSA), such metering data shall be provided to us by the User of the system in respect of each calendar month within five working days of the end of that calendar month.

2.65. The metering data shall identify the amount consumed and/or produced in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to us shall be consistent with that received through the metering equipment installed.

2.66. Metering data shall be provided in an electronic format specified by us from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration

Agreement (MRA) data flow D0036 (as agreed with us). The data shall be emailed to uosadministrators@scottishpower.com.

- 2.67. We require details of reactive power imported or exported to be provided for all Measurement Class C and E sites. It is also required for CVA sites and Exempt Distribution Network boundaries with difference metering. We reserve the right to levy a charge on Users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.95 lag will be applied to the active consumption in any half hour.

Out of area use of system charges

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

Licensed distribution network operator charges

- 2.69. Licenced Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Service Area.
- 2.70. The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the 'all-the-way' charge and is dependent upon the voltage of connection of each embedded network to the host DNO's network. The same charge elements will apply as those that match the LDNO's end customer charges. The relevant charge structures are set out in Annex 4.
- 2.71. Where an MPAN has an invalid Settlement combination, the 'LDNO LV: Domestic Unrestricted' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'LDNO LV: Domestic Unrestricted' fixed and unit charges will be applied for each invalid TPR combination.
- 2.72. The charge structure for Designated EHV Properties embedded in networks operated by LDNOs will be calculated individually using the EDCM. The relevant charge structures are set out in Annex 2.
- 2.73. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

Licence exempt distribution networks

- 2.74. The Electricity and Gas (Internal Market) Regulations 2011 introduced new obligations on owners of licence exempt distribution networks (sometimes

called private networks) including a duty to facilitate access to electricity and gas suppliers for customers within those networks.

- 2.75. When customers (both domestic and commercial) are located within an exempt distribution network and require the ability to choose their own supplier this is called 'third party access'. These embedded customers will require an MPAN so that they can have their electricity supplied by a Supplier of their choice.
- 2.76. Licence exempt distribution networks owners can provide third party access using either full settlement metering or the difference metering approach.

Full settlement metering

- 2.77. This is where a licence exempt distribution network is set up so that each embedded installation has an MPAN and Metering System and therefore all customers purchase electricity from their chosen Supplier. In this case there are no Settlement Metering Systems at the boundary between the licensed Distribution System and the exempt distribution network.
- 2.78. In this approach our UoS charges will be applied to each MPAN.

Difference metering

- 2.79. This is where one or more, but not all, customers on a licence exempt distribution network choose their own Supplier for electricity supply to their premise. Under this approach the customers requiring third part access on the exempt distribution network will have their own MPAN and must have a HH Metering System.
- 2.80. Unless agreed otherwise, our UoS charges will be applied using gross settlement.

Gross settlement

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

2.82. We require that gross metered data for the boundary of the connection is provided to us. Until a new industry data flow is introduced for the sending of such gross data, gross metered data shall:

- be provided in a text file in the format of the D0036 or D0275 MRA data flow;
- the text file shall be emailed to uosadministrators@scottishpower.com;
- the title of the email should also contain the phrase “gross data for difference metered private network”.
- the text file and the title of the email shall contain the metering reference specified by us in place of the Settlement MPAN, i.e. a dummy alphanumeric reference to enable the relating of the gross metered data to a given boundary MPAN;
- the text filename shall be formed of the metering reference specified by us followed by a hyphen and followed by a timestamp in the format YYYYMMDDHHMMSS and followed by “.txt”; and

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

3. Schedule of charges for use of the distribution system

- 3.1. Tables listing the charges for the distribution of electricity for UoS are published in the annexes to this document.
- 3.2. These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from:
http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp
- 3.3. Annex 1 contains charges applied to LV and HV Designated Properties.
- 3.4. Annex 2 contains the charges applied to our Designated EHV Properties and charges applied to LDNOs for Designated EHV Properties connected within their embedded Distribution System.
- 3.5. Annex 3 contains details of any preserved and additional charges that are valid at this time. Preserved charges are mapped to an appropriate charge and are closed to new customers.
- 3.6. Annex 4 contains the charges applied to LDNOs in respect of LV and HV Designated Properties connected in their embedded Distribution System.

4. Schedule of line loss factors

Role of line loss factors in the supply of electricity

- 4.1. Electricity entering or exiting our Distribution System is adjusted to take account of energy that is lost⁸ as it is distributed through the network. This adjustment does not affect distribution charges but is used in energy settlement to take metered consumption to a notional grid supply point so that suppliers' purchases take account for the energy lost on the Distribution System.
- 4.2. We are responsible for calculating the Line Loss Factors⁹ (LLFs) and providing these to Elexon. Elexon is the company that manages the BSC. This code covers the governance and rules for the balancing and settlement arrangements.
- 4.3. Annex 5 provides the LLFs that are used to adjust the metering system volumes to take account of losses on the distribution network.

Calculation of line loss factors

- 4.4. LLFs are calculated in accordance with BSC procedure 128 that determines the principles with which we must comply when calculating LLFs.
- 4.5. LLFs are calculated using either a generic method or a site-specific method. The generic method is used for sites connected at LV or HV and the site-specific method is used for sites connected at EHV or where a request for site-specific LLFs has been agreed. Generic LLFs will be applied as a default to all new EHV sites until sufficient data is available for a site-specific calculation.
- 4.6. The definition of EHV used for LLF purposes differs from the definition used for defining Designated EHV Properties that is used in the EDCM. The definition used for LLF purposes can be found in our LLF methodology.
- 4.7. The Elexon website (<http://www.elexon.co.uk/reference/technical-operations/losses/>) contains more information on LLFs. This page also has links to BSC procedure 128 and to our LLF methodology.

⁸ Energy can be lost for technical and non-technical reasons and losses normally occur by heat dissipation through power flowing in conductors and transformers. Losses can also reduce if a customer's action reduces power flowing in the distribution network. This might happen when a customer generates electricity and the produced energy is consumed locally.

⁹ Also referred to as Loss Adjustment Factors.

Line loss factor time periods

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

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.elexonportal.co.uk>, contains the LLFs in standard industry data format (D0265). A user guide with details on registering and using the portal can be downloaded from:
www.elexonportal.co.uk/Userguide

5. Notes for Designated EHV Properties

EDCM network group costs

- 5.1. A table is provided in the accompanying spreadsheet which shows the underlying FCP network group costs used to calculate the current EDCM charges. This spreadsheet "SPM – Schedule of Charges and Other Tables.xlsx" is available to download from our website.
- 5.2. These are illustrative of the modelled costs at the time that this statement was published. A new connection will result in changes to current network utilisations, which will then form the basis of future prices: the charge determined in this statement will not necessarily be the charge in subsequent years because of the interaction between new and existing network connections and any other changes made to our Distribution System which may affect charges.

Charges for new Designated EHV Properties

- 5.3. Charges for any new Designated EHV Properties calculated after publication of the current statement will be published in an addendum to that statement as and when necessary.
- 5.4. The form of the addendum is detailed in Annex 6 to this statement.
- 5.5. The addendum will be sent to relevant DCUSA parties and published as a revised 'Schedule of Charges and Other Tables' spreadsheet on our website. The addendum will include charge information that under enduring circumstances would be found in Annex 2 and line loss factors that would normally be found in Annex 5.
- 5.6. The new Designated EHV Properties charges will be added to Annex 2 in the next full statement released.

Charges for amended Designated EHV Properties

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

Demand-side management

- 5.8. For those premises where use of system is charged under the EDCM, some customers may be able to benefit from entering into a Demand Side Management ("DSM") Agreement with SP Distribution, whereby part or all of your MIC will become interruptible by us for active network management purposes other than normal planned outages.
- 5.9. The DSM Agreement will be based upon a contractual commitment by the customer to materially reduce their MIC in certain time periods (determined by SP Distribution) 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.
- 5.10. If you are interested in making part or all of your MIC interruptible as an integral irrevocable feature of a new connection or modification to an existing connection, you should in the first instance contact our Commercial team:

The Distribution Policy Team
Regulation & Commercial
SP Distribution Plc
Ochil House
10 Technology Avenue
Hamilton International Technology Park
Blantyne
G72 0HT
Email: commercial@sppowersystems.com

6. Electricity distribution rebates

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

7. Accounting and administration services

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

<http://www.legislation.gov.uk/ukxi/2002/1674/regulation/2/made>

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. None

Appendix 1 - Glossary

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

Term	Definition
All-the-way charge	A charge that is applicable to an end user rather than an LDNO. An end user in this context is a Supplier/User who has a registered MPAN or MSID and is using the Distribution System to transport energy on behalf of a Customer.
Balancing and Settlement Code (BSC)	The BSC contains the governance arrangements for electricity balancing and settlement in Great Britain. An overview document is available from www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf .
Common Distribution Charging Methodology (CDCM)	The CDCM used for calculating charges to Designated Properties as required by standard licence condition 13A of the electricity distribution licence.
Central volume allocation (CVA)	As defined in the BSC.
Customer	<p>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;</p> <p>Or</p> <p>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).</p>
Designated EHV Properties	As defined in standard condition 13B of the electricity distribution licence.
Designated Properties	As defined in standard condition 13A of the electricity distribution licence.

Term	Definition																																																												
Distributor IDs	<p>These are unique IDs that can be used, with reference to the MPAN, to identify your LDNO. The charges for other network operators can be found on their website.</p> <table border="1" data-bbox="643 405 1378 1473"> <thead> <tr> <th data-bbox="649 412 715 443">ID</th> <th data-bbox="715 412 1002 443">Name</th> <th data-bbox="1002 412 1372 443">Operator</th> </tr> </thead> <tbody> <tr> <td data-bbox="649 450 715 510">10</td> <td data-bbox="715 450 1002 510">Eastern Power Networks</td> <td data-bbox="1002 450 1372 510">UK Power Networks</td> </tr> <tr> <td data-bbox="649 517 715 548">11</td> <td data-bbox="715 517 1002 548">East Midlands</td> <td data-bbox="1002 517 1372 548">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 555 715 616">12</td> <td data-bbox="715 555 1002 616">London Power Networks</td> <td data-bbox="1002 555 1372 616">UK Power Networks</td> </tr> <tr> <td data-bbox="649 622 715 683">13</td> <td data-bbox="715 622 1002 683">Merseyside and North Wales</td> <td data-bbox="1002 622 1372 683">Scottish Power</td> </tr> <tr> <td data-bbox="649 689 715 721">14</td> <td data-bbox="715 689 1002 721">Midlands</td> <td data-bbox="1002 689 1372 721">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 728 715 759">15</td> <td data-bbox="715 728 1002 759">Northern</td> <td data-bbox="1002 728 1372 759">Northern Powergrid</td> </tr> <tr> <td data-bbox="649 766 715 797">16</td> <td data-bbox="715 766 1002 797">North Western</td> <td data-bbox="1002 766 1372 797">Electricity North West</td> </tr> <tr> <td data-bbox="649 804 715 864">17</td> <td data-bbox="715 804 1002 864">Scottish Hydro Electric</td> <td data-bbox="1002 804 1372 864">Scottish Hydro Electric Power Distribution plc</td> </tr> <tr> <td data-bbox="649 871 715 902">18</td> <td data-bbox="715 871 1002 902">South Scotland</td> <td data-bbox="1002 871 1372 902">Scottish Power</td> </tr> <tr> <td data-bbox="649 909 715 969">19</td> <td data-bbox="715 909 1002 969">South Eastern Power Networks</td> <td data-bbox="1002 909 1372 969">UK Power Networks</td> </tr> <tr> <td data-bbox="649 976 715 1037">20</td> <td data-bbox="715 976 1002 1037">Southern Electric</td> <td data-bbox="1002 976 1372 1037">Southern Electric Power Distribution plc</td> </tr> <tr> <td data-bbox="649 1043 715 1075">21</td> <td data-bbox="715 1043 1002 1075">South Wales</td> <td data-bbox="1002 1043 1372 1075">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 1081 715 1113">22</td> <td data-bbox="715 1081 1002 1113">South Western</td> <td data-bbox="1002 1081 1372 1113">Western Power Distribution</td> </tr> <tr> <td data-bbox="649 1120 715 1151">23</td> <td data-bbox="715 1120 1002 1151">Yorkshire</td> <td data-bbox="1002 1120 1372 1151">Northern Powergrid</td> </tr> <tr> <td data-bbox="649 1158 715 1189">24</td> <td data-bbox="715 1158 1002 1189">GTC</td> <td data-bbox="1002 1158 1372 1189">Independent Power Networks</td> </tr> <tr> <td data-bbox="649 1196 715 1227">25</td> <td data-bbox="715 1196 1002 1227">ESP Electricity</td> <td data-bbox="1002 1196 1372 1227">ESP Electricity</td> </tr> <tr> <td data-bbox="649 1234 715 1265">26</td> <td data-bbox="715 1234 1002 1265">Energetics</td> <td data-bbox="1002 1234 1372 1265">Energetics Electricity Ltd</td> </tr> <tr> <td data-bbox="649 1272 715 1303">27</td> <td data-bbox="715 1272 1002 1303">GTC</td> <td data-bbox="1002 1272 1372 1303">The Electricity Network Company Ltd</td> </tr> <tr> <td data-bbox="649 1310 715 1364">29</td> <td data-bbox="715 1310 1002 1364">Harlaxton Energy Networks</td> <td data-bbox="1002 1310 1372 1364">Harlaxton Energy Networks</td> </tr> </tbody> </table>	ID	Name	Operator	10	Eastern Power Networks	UK Power Networks	11	East Midlands	Western Power Distribution	12	London Power Networks	UK Power Networks	13	Merseyside and North Wales	Scottish Power	14	Midlands	Western Power Distribution	15	Northern	Northern Powergrid	16	North Western	Electricity North West	17	Scottish Hydro Electric	Scottish Hydro Electric Power Distribution plc	18	South Scotland	Scottish Power	19	South Eastern Power Networks	UK Power Networks	20	Southern Electric	Southern Electric Power Distribution plc	21	South Wales	Western Power Distribution	22	South Western	Western Power Distribution	23	Yorkshire	Northern Powergrid	24	GTC	Independent Power Networks	25	ESP Electricity	ESP Electricity	26	Energetics	Energetics Electricity Ltd	27	GTC	The Electricity Network Company Ltd	29	Harlaxton Energy Networks	Harlaxton Energy Networks
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Distribution Connection and Use of System Agreement (DCUSA)	<p>The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain.</p> <p>It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.</p>																																																												
Distribution Network Operator (DNO)	<p>An electricity distributor that operates one of the 14 distribution services areas and in whose electricity distribution licence the requirements of Section B of the standard conditions of that licence have effect.</p>																																																												
Distribution Services Area	<p>The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.</p>																																																												

Term	Definition
Distribution System	<p>The system consisting (wholly or mainly) of electric lines owned or operated by an authorised distributor that is used for the distribution of electricity from:</p> <ul style="list-style-type: none"> • Grid Supply Points or generation sets or other entry points <p>to the points of delivery to:</p> <ul style="list-style-type: none"> • Customers or Users or any transmission licensee in its capacity as operator of that licensee's transmission system or the Great Britain (GB) transmission system and includes any remote transmission assets (owned by a transmission licensee within England and Wales) <p>that are operated by that authorised distributor and any electrical plant, electricity meters, and metering equipment owned or operated by it in connection with the distribution of electricity, but does not include any part of the GB transmission system.</p>
EHV Distribution Charging Methodology (EDCM)	The EDCM used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the Electricity Distribution Licence.
Electricity Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Electricity Act 1989.
Electricity Distributor	Any person who is authorised by an Electricity Distribution Licence to distribute electricity.
Embedded LDNO	This refers to an LDNO operating a distribution network which is embedded within another distribution network.
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another distribution network.
Entry Point	A boundary point at which electricity is exported onto a Distribution System from a connected installation or from another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).
Exit Point	A point of connection at which a supply of electricity may flow from the Distribution System to the Customer's installation or User's installation or the Distribution System of another person.
Extra-High Voltage (EHV)	Nominal voltages of 22kV and above.
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.
Grid Supply Point (GSP)	A metered connection between the National Grid Electricity Transmission system and the licensee's distribution system at which electricity flows to or from the Distribution System.

Term	Definition
GSP group	A distinct electrical system that is supplied from one or more GSPs for which total supply into the GSP group can be determined for each half hour.
High Voltage (HV)	Nominal voltages of at least 1kV and less than 22kV.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in market domain data - see https://www.elexonportal.co.uk/MDDVIEWER .
kVA	Kilovolt amperes.
kVArh	Kilovolt ampere reactive hour.
kW	Kilowatt.
kWh	Kilowatt hour (equivalent to one "unit" of electricity).
Licensed Distribution Network Operator (LDNO)	The holder of a licence in respect of distribution activities in Great Britain.
Line Loss Factor (LLF)	The factor that is used in Settlement to adjust the metering system volumes to take account of losses on the Distribution System.
Line Loss Factor Class (LLFC)	An identifier assigned to an SVA metering system which is used to assign the LLF and use of system charges.
Load Factor	$= \frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data available to all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.
Maximum Export Capacity (MEC)	The MEC of apparent power expressed in kVA that has been agreed can flow through the entry point to the Distribution System from the Customer's installation as specified in the connection agreement.
Maximum Import Capacity (MIC)	The MIC of apparent power expressed in kVA that has been agreed can flow through the exit point from the Distribution System to the Customer's installation as specified in the connection agreement.

Term	Definition
Measurement Class	<p>A classification of metering systems used in the BSC which indicates how consumption is measured, i.e.:</p> <ul style="list-style-type: none"> • Measurement class A – non-half-hourly metering equipment; • Measurement class B – non-half-hourly unmetred supplies; • Measurement class C – half-hourly metering equipment at or above 100kW premises; • Measurement class D – half-hourly unmetred supplies; and • Measurement class E – half-hourly metering equipment below 100kW premises, and from 5 November 2015, with current transformer. • Measurement class F – half hourly metering equipment at below 100kW premises with current transformer or whole current, and at domestic premises • Measurement class G – half hourly metering equipment at below 100kW premises with whole current and not at domestic premises
Meter Timeswitch Code (MTC)	<p>MTCs are three digit codes allowing suppliers to identify the metering installed in Customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter. Further information can be found in MDD.</p>
Metering Point	<p>The point at which electricity that is exported to or imported from the licensee's Distribution System is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'metering points'.</p>
Metering Point Administration Number (MPAN)	<p>A number relating to a Metering Point under the MRA.</p>
Metering System	<p>Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.</p>
Metering System Identifier (MSID)	<p>MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.</p>
Master Registration Agreement (MRA)	<p>The MRA is an Agreement that sets out terms for the provision of Metering Point Administration Services (MPAS) Registrations, and procedures in relation to the Change of Supplier to any premise/metering point.</p>
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→primary nested DNO→ secondary nested DNO→customer).</p>

Term	Definition
Ofgem	Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Profile Class (PC)	A categorisation applied to NHH MPANs and used in Settlement to group Customers with similar consumption patterns to enable the calculation of consumption profiles.
Settlement	The determination and settlement of amounts payable in respect of charges (including reconciling charges) in accordance with the BSC.
Settlement Class (SC)	The combination of Profile Class, Line Loss Factor Class, Time Pattern Regime and Standard Settlement Configuration, by Supplier within a GSP group and used for Settlement.
Standard Settlement Configuration (SSC)	A standard metering configuration relating to a specific combination of Time Pattern Regimes.
Supercustomer	The method of billing Users for use of system on an aggregated basis, grouping together consumption and standing charges for all similar NHH metered Customers or aggregated HH metered Customers.
Supercustomer DUoS Report	A report of profiled data by Settlement Class providing counts of MPANs and units consumed.
Supplier	An organisation with a supply licence responsible for electricity supplied to and/or exported from a metering point.
Supplier Volume Allocation (SVA)	As defined in the BSC.
Time Pattern Regime (TPR)	The pattern of switching behaviour through time that one or more meter registers follow.
Unmetered Supplies	Exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001 and where operated in accordance with BSC procedure 520 ¹⁰ .
Use of System Charges	Charges which are applicable to those parties which use the Distribution System.
User	Someone that has a use of system agreement with the DNO e.g. a supplier, generator or other DNO.

¹⁰ Balancing and Settlement Code Procedures are available from <http://www.elexon.co.uk/pages/bscps.aspx>

Appendix 2 - Guidance notes¹¹

Background

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

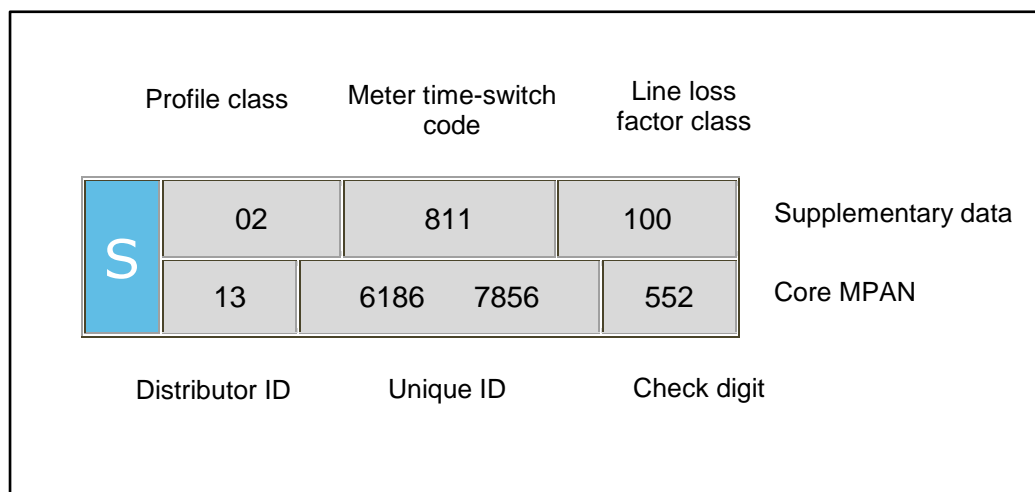
Meter point administration

- 1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a school which may have an MPAN for the main supply and a MPAN for catering).
- 1.6. The full MPAN is a 21 digit number, preceded by an 'S'. The MPAN applicable to a supply point is found on the electricity bill from your Supplier. This number enables you to establish who your electricity distributor is, details of the characteristics of the supply and importantly the distribution charges that are applicable to your premise.

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

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

Full MPAN diagram



- 1.8. Generally, you will only need to know the Distributor ID and line loss factor class to identify the distribution charges for your premise. However, there are some premises where charges are specific to that site. In these instances the charges are identified by the core MPAN. The Distributor ID for SP Manweb is 13. Other Distributor IDs can be referenced in the glossary.

- 1.9. Additionally it can be useful to understand the profile class provided in the supplementary data. The profile class will be a number between 00 and 08. The following list provides details of the allocation of profile classes to types of customers:

- '01' – Domestic customers with unrestricted supply
- '02' – Domestic customers with restricted load, for example off-peak heating
- '03' – Non-domestic customers with unrestricted supply
- '04' – Non-domestic customers with restricted load, for example off-peak heating
- '05' – Non-domestic maximum demand customers with a Load Factor of less than 20%
- '06' – Non-domestic maximum demand customers with a Load Factor between 20% and 30%
- '07' – Non-domestic maximum demand customers with a Load Factor between 30% and 40%

- '08' – Non-domestic maximum demand customers with a Load Factor over 40% or non-half-hourly metered generation customers
 - '00' – Half-hourly metered demand and generation customers
- 1.10. Unmetered supplies will be allocated to profile class 01, 08 and 00 depending on the type of load or the measurement method of the load.
- 1.11. The allocation of the profile class will affect your charges. If you feel that you have been allocated the wrong profile class, please contact your Supplier as they are responsible for this.

Your charges

- 1.12. All distribution charges that relate to our Distributor ID 13 are provided in this statement.
- 1.13. You can identify your charges by referencing your line loss factor class, from Annex 1. If the MPAN is for a Designated EHV Property then the charges will be found in Annex 2. In a few instances, the charges maybe contained in Annex 3. When identifying charges in Annex 2, please note that some line loss factor classes have more than one charge. In this instance you will need to select the correct charge by cross referencing with the core MPAN provided in the table.
- 1.14. Once you have identified which charge structure applies to your MPAN then you will be able to calculate an estimate of your distribution charge using the calculator provided in the spreadsheet 'Schedule of charges and other tables' found in the sheet called 'Charge Calculator'. This spreadsheet can be downloaded from:

http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp

Reducing your charges

- 1.15. The most effective way to reduce your energy charges is to reduce your consumption by switching off or using more energy efficient appliances. However, there are also other potential opportunities to reduce your distribution charges; for example, it may be beneficial to shift demand or generation to a better time period where demand use is likely to be cheaper outside peak periods and generation credits more beneficial, although the ability to directly benefit will be linked to the structure of your supply charges.

- 1.16. The calculator mentioned above provides the opportunity to establish a forecast of the change in distribution charges that could be achieved if you are able to change any of the consumption related inputs.

Reactive power and reactive power charges

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

Site-specific EDCM charges

- 1.22. A site classified as a Designated EHV Property is subject to a locational based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use two approved approaches; Long Run Incremental Cost Pricing

(LRIC) and Forward Cost Pricing (FCP) and we use the FCP. The EDCM will apply to Customers connected at Extra High Voltage or connected at High Voltage and metered at a high voltage substation.

1.23. EDCM charges are site-specific, reflecting the degree to which the local and higher voltage networks have the capacity to serve more demand or generation without the need to upgrade the electricity infrastructure. The charges also reflect the networks specifically used to deliver the electricity to the site as well as the usage at the site. Generators with non-intermittent output and deemed to be providing beneficial support to our networks may qualify to receive payment.

1.24. The charges under the EDCM comprise of the following individual components:

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

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

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

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

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

- c) **Super-red unit charge (pence/kWh)** - This charge recovers the remote FCP component. The charge is applied on consumption during the “Super-red” period as detailed in Annex 2. The charge is positive for import and negative for export which means you can either reduce your charges by minimising consumption or increasing export at those times. The charge is applied on consumption during the Super-red time period as detailed in Annex 2.
- 1.25. Future charge rates may be affected by consumption during the Super-red period. Therefore reducing consumption in the Super-red time period may be beneficial.
- 1.26. **Reactive Power** -The EDCM does not include a separate charge component for any reactive power flows (kVAr) for either demand or generation. However, the EDCM charges do reflect the effect on the network of the customer’s power factor, for example unit charges can increase if your site power factor is poor (lower than 0.95). Improving your site’s power factor will also reduce the maximum demand (kVA) for the same power consumed in kW thus providing scope to reduce your agreed capacity requirements.

Annex 1 - Schedule of charges for use of the distribution system by LV and HV Designated Properties

Please note for Domestic Unrestricted and Domestic Two Rate the tariffs in Table 2 apply.

SP Manweb - Effective from 1 April 2015 - Indicative LV and HV charges

Time Bands for Half Hourly Metered Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16.30 - 19.30	08.00 - 16.30 19.30 - 22.30	00.00 - 08.00 22.30 - 00.00
Saturday and Sunday All Year		16.00 - 20.00	00.00 - 16.00 20.00 - 00.00
Notes	All the above times are in UK Clock time		

Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) June to August Inclusive		08.00 - 22.30	00.00 - 08.00 22.30 - 00.00
Monday to Friday (Including Bank Holidays) November to February Inclusive	16.30 - 19.30	08.00 - 16.30 19.30 - 22.30	00.00 - 08.00 22.30 - 00.00
Monday to Friday (Including Bank Holidays) March, April, May and September, October		08.00 - 22.30	00.00 - 08.00 22.30 - 00.00
Saturday and Sunday All year		16.00 - 20.00	00.00-16.00 20.00-00.00
Notes	All the above times are in UK Clock time		

TABLE 1	Open LLFcs	PCs	Unit rate 1 p/kWh (red/black)	Unit rate 2 p/kWh (amber/yellow)	Unit rate 3 p/kWh (green)	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 (Unadjusted for £5 Rebate and will not apply for 2014/15 - see table 2 below for tariffs)	101, 102	1	3.276			3.91				
Domestic Two Rate (Unadjusted for £5 Rebate and will not apply for 2014/15 - see table 2 below for tariffs)	103, 105, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 131, 132, 133, 134, 147, 148, 149, 150	2	3.788	0.414		3.91				145, 146
Domestic Off Peak (related MPAN)	104, 106, 130, 153, 155	2	0.407							135, 136, 137, 138, 140, 141, 142, 143
Small Non Domestic Unrestricted	201, 202, 203, 209	3	2.961			5.01				207
Small Non Domestic Two Rate	205, 211, 231, 232	4	3.334	0.289		5.01				208, 210
Small Non Domestic Off Peak (related MPAN)	212	4	0.331							233, 234, 235, 236, 237
LV Medium Non-Domestic	401, 402	5-8	3.305	0.258		20.28				
LV Sub Medium Non-Domestic	403, 404	5-8	3.126	0.245		26.69				
LV Network Domestic	180		18.515	1.740	0.292	3.91				
LV Network Non-Domestic Non-CT	280		17.874	1.621	0.278	5.01				
LV HH Metered	511, 591		14.731	1.213	0.230	19.99	2.60	0.594	2.60	501
LV Sub HH Metered	513, 592		12.991	0.817	0.203	7.06	5.31	0.460	5.31	503
HV HH Metered	515, 593		10.160	0.527	0.145	106.83	4.12	0.323	4.12	505
NHH UMS category A	900	8	2.049							904, 912, 913
NHH UMS category B	901	1	2.697							905
NHH UMS category C	902	1	4.636							906
NHH UMS category D	903	1	1.573							907
LV UMS (Pseudo HH Metered)	910		35.389	1.583	0.565					
LV Generation NHH or Aggregate HH	781, 782, 783, 784, 785	8&0	-1.274							
LV Sub Generation NHH	780	8	-1.140							
LV Generation Intermittent	786, 787		-1.274					0.357		
LV Generation Non-Intermittent	791, 795		-8.766	-1.044	-0.157			0.357		
LV Sub Generation Intermittent	788, 789		-1.140					0.332		
LV Sub Generation Non-Intermittent	792, 796		-7.973	-0.899	-0.144			0.332		
HV Generation Intermittent	770, 771		-0.745			78.01		0.253		
HV Generation Non-Intermittent	793, 797		-5.812	-0.439	-0.104	78.01		0.253		

TABLE 2	Open LLFcs	PCs	Unit rate 1 p/kWh (red/black)	Unit rate 2 p/kWh (amber/yellow)	Unit rate 3 p/kWh (green)	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 (including £5 rebate recovery adjustment)	101, 102	1	3.276			5.28				
Domestic Two Rate (including £5 rebate recovery adjustment)	103, 105, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 131, 132, 133, 134, 147, 148, 149, 150	2	3.788	0.414		5.28				145, 146

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 1 April 2015 - Indicative EDCM charges

Time Periods for Designated EHV Properties	
Time periods	Super Red Time Band
Monday to Friday (Including Bank Holidays) June to August Inclusive	
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:30 - 19:30
Notes	All the above times are in UK Clock time

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit 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	803	1300035361194	603	603	1300050649372	Shell Stanlow		18815.93	3.04	3.04		2959.68	0.04	0.04
804	804	1300035352942				Jaguar & Land Rover	0.692	6089.53	7.10	7.10				
805	805	1300035359423				Innospec		48445.31	5.17	5.17				
806	806	1300051060972	606	606	1300051060981	Bridgewater Paper		57.61	3.13	3.13				
807	807	1300035359752				General Motors		10170.58	3.92	3.92				
808	808	1300035360066				TATA Steel		26894.51	6.27	6.27				
809	809	1300035362480				Urenco			4.66	4.66				
810	810	1300051694818				Ineos Chlor Ltd (Lostock)	0.677	10622.50	2.74	2.74				
812	812	1300035356130				Knauf Insulation	0.689	1186.86	8.60	8.60				
813	813	1300035359585				Air Products		1113.36	11.15	11.15				
814	814	1300035359619				Shell Chemicals		5140.04	10.72	10.72				
815	815	1300035359780				GrowHow		6090.22	10.83	10.83				
816	816	1300035356398				Castle Cement		1592.77	4.69	4.69				
817	817	1300035361992				Kronospan	0.717	4202.41	10.75	11.10				
819	819	1300035365082	619	619	1300051136210	Albion Inorganic	2.165	31568.10	2.10	2.10				
821	821	1300035367967	621	621	1300050649336	BHP		9163.40	2.26	2.26				
822	822	1300060251601				Hole House Farm		6665.76	3.87	3.87				
824	824	1300054940674	604	604	1300054940683	Port of Liverpool		19.33	2.15	2.15		1160.07	0.04	0.04
827	827	1300052785147				Kimberley Clark		397.82	9.21	9.21				
828	828	1300060075390	628	628	1300060075405	Amegni		5.56	2.97	2.97		433.87	0.04	0.04
829	829	1300035400611	629	629	1300038004507	Salt Union		665.09	2.38	2.38				
831	831	1300035437700				Ineos Chlor Ltd (Percival Lane)		290.97	6.03	6.03				
833	833	1300035361803				Toyota		1978.65	4.60	4.60				
834	834	1300051028551				Warmingham Gas Storage		3785.55	4.98	4.98				
835	835	1300050648875	635	635	1300050931602	Arpley Landfill	1.986	6.86	2.94	2.94				
836	836	1300035360800				Amcor	0.982	1405.60	7.90	7.90				
838	838	1300052122840	638	638	1300052122859	Cammaes C		5.25	2.28	2.28				
839	839	1300051822667	639	639	1300051821478	PG Strand Gate		1057.15	4.93	4.93				
840	840	1300052545267	640	640	1300052545276	Moel Maeioglan (A)		12.17	2.85	2.85				
841	841	1300052545285	641	641	1300052545294	Moel Maeioglan (B)		6.13	3.01	3.01				
842	842	1300053022082	642	642	1300053022091	North Hoyle		299.48	1.58	1.58				
843	843	1300053466350	643	643	1300053466369	Cefn Croyes (3)		2477.60	2.22	2.22				

844	844	1300053466378	644	644	1300053466387	Cefn Croyes (4)		2482.04	2.22	2.22						
845	845	1300053834682	645	645	1300053834691	Tir Mostyn		222.83	2.30	2.30						
846	846	1300053862801	646	646	1300053862796	Mynydd Clogau	0.872	5.79	3.21	3.21						
847	847	1300053962107	647	647	1300053962116	Granox	0.708	126.72	3.88	3.88						
848	848	1300060499085	651	651	1300060499094	Tai Moellon		2.80	3.89	3.89	-0.469	839.92	0.04	0.04		
849	849	1300054624390	649	649	1300054624405	Braich Ddu		13.65	2.22	2.22						
851	851	1300054933348	611	611	1300054914140	Moel Maelogan 2		4.57	2.74	2.74		267.13	0.04	0.04		
852	852	1300053310848				Trafalgar Dock		1420.33	4.64	4.64						
853	853	1300060075371	653	653	1300060075380	CEW	0.637	194.72	5.04	5.04	-2.579	4072.19	0.04	0.04		
854	854	1300060138720	654	654	1300060138739	Wern Ddu		35.68	2.12	2.12		1730.60	0.04	0.04		
856	856	1300060102617	656	656	1300060102608	Rhyl Flats		116.33	2.30	2.30		10702.05	0.04	0.04		
857	857	1300060508758				Seaforth Liverpool Dock 2		47182.81	6.43	6.43						
865	865	1300035438944	665	665	1300038004491	Cemmaes B		3.37	2.58	2.58						
866	866	1300037983737	666	666	1300037983746	Penrhyddlan	0.711	4.72	3.70	3.70						
867	867	1300037983755	667	667	1300037983764	Llidytywaun	0.861	4.41	3.57	3.57						
868	868	1300035368906	668	668	1300050649381	Rhyd y Groes		27.21	2.46	2.46						
869	869	1300035370393	669	669	1300050649070	Llangwyrfon		8.47	3.32	3.32						
870	870	1300060308295				Storenergy (Lostock)		1032.65	8.77	8.77						
871	871	1300037983996	671	671	1300037984002	Rheidol		25.27	2.51	2.51						
872	872	1300037983913	672	672	1300037983922	Carno B		61.90	2.92	2.92						
873	873	1300037983999	673	673	1300037983904	Carno A		21.97	3.01	3.01						
874	874	1300035438572	674	674	1300050649390	Trysglwyn		9.11	2.60	2.60						
875	875	1300050649406	675	675	1300050649415	Llanabo		4.52	2.66	2.66						
877	877	1300053593216				Quinn Glass		2236.43	11.56	11.56						
878	878	1300054122122				Liverpool Int Bus Park		2958.09	3.61	3.61						
887	887	1300035619768	687	687	1300050652905	Mynydd Gorduu		58.29	3.17	3.17						
898	898	1300051694552	698	698	1300051694827	PG Wunnington		349.36	2.21	3.63						
899	899	1300060484140				Airbus UK Ltd (33kV)		4964.69	6.89	6.89						
921	921	1300050654248	691	691	1300060208518	Network Rail (Crewe)	1.653	6393.24	4.34	4.34	-2.365	1598.31	0.04	0.04		
922	922	1300050654257	682	682	1300060269895	Network Rail (Speke)		2333.04	7.11	7.11	-0.652	777.68	0.04	0.04		
923	923	1300050649994				Network Rail (Bankhall)		1013.59	6.41	6.41						
924	924	1300050653040				Network Rail (Bromborough)		648.66	9.89	9.89						
925	925	1300050654220				Network Rail (Shore Road)		3785.58	6.82	6.82						
MSID 7120	MSID 7120	MSID 7120	MSID 7120	MSID 7120	MSID 7120	Shotton Paper		26432.56	2.14	2.14						
MSID 7203	MSID 7203	MSID 7203	MSID 7203	MSID 7203	MSID 7203	Burbo Bank		4515.30								
MSID 0030	MSID 0030	MSID 0030				Risley			12.84	12.84						
MSID 0031/32	MSID 0031/32	MSID 0031/32				Bold			3.98	3.98						
MSID 4532/33	MSID 4532/33	MSID 4532/33	MSID 4532/33	MSID 4532/33	MSID 4532/33	Dolgarrog PS			6.21	6.21	-0.730		0.04	0.04		
			MSID 6015	MSID 6015	MSID 6015	Maentwrog PS							0.04	0.04		
			MSID 4054	MSID 4054	MSID 4054	Cwm Dylfi PS							0.04	0.04		
300	300	1300035348714				Royal London Insurance	0.456	147.14	1.97	1.97						
301	301	1300035349160				Amerdale Ltd		147.14	5.76	5.76						
302	302	1300035349461				United Biscuits (UK) Ltd		147.14	6.79	6.79						
303	303	1300035350156				Brocklebank Dock	0.545	147.14	8.73	8.73						
304	304	1300035351949				Bruntwood Limited		147.14	4.83	4.83						
305	305	1300035351958				Lpool Daily Post & Echo		147.14	5.44	5.44						
306	306	1300035352214				University Of Liverpool	0.402	147.14	3.94	3.94						
307	307	1300035352232				Norwepp Ltd	0.419	147.14	2.28	2.28						
308	308	1300035353050				New Capital Dev Ltd		147.14	9.37	9.37						
309	309	1300035354346				Chiron Vaccines Ltd	0.693	147.14	2.16	2.16						
310	310	1300035355465				Assidoman Print & Pack	3.412	147.14	8.43	8.43						
311	311	1300035355526				Bruntwood Ltd (Warrington)	3.266	147.14	4.25	4.25						
313	313	1300035359460				H H Robinson	1.631	147.14	1.95	1.95						
314	314	1300035359567				SCA Limited	1.088	147.14	8.45	8.45						

315	315	1300035359725				UU Water Plc - Sutton Hall	1.079	147.14	8.83	8.83				
316	316	1300035360386				Dairy Crest Ltd	2.152	147.14	4.98	4.98				
317	317	1300035360632				Tetra Pak Manufacturing Uk Ltd	2.096	147.14	4.53	4.53				
318	318	1300035360952				Hydro Aluminium Deeside Ltd	2.225	147.14	5.74	5.74				
319	319	1300035362719				British Polythene Industries Plc	0.916	147.14	6.99	6.99				
320	320	1300035363002				Stanton Land And Marine Ltd	2.554	795.90	3.57	3.57				
321	321	1300035364619				Bombardier UK Ltd	0.913	1297.52	6.23	6.23				
322	322	1300035364707	700	700	1300060416993	Bentley Motor Cars Ltd	0.896	147.14	5.28	5.28		73.57	0.04	0.04
323	323	1300035366379				Tarmac Limited		73.57	3.82	3.82				
324	324	1300035369760				Texplan	2.203	147.14	8.60	8.60				
325	325	1300051555440				SCA		147.14	11.62	11.62				
326	326	1300052619849				Somerfield Plc	2.534	147.14	3.68	3.68				
327	327	1300035348644				Midland Bank	0.554	147.14	2.17	2.17				
328	328	1300035348662				Alliance & Leicester Plc	0.495	147.14	7.58	7.58				
329	329	1300035349035				Dairy Crest		147.14	5.54	5.54				
330	330	1300035349044				Yorkshire Copper Tube Ltd		1444.66	3.98	3.98				
331	331	1300035349114				Kodak Ltd		147.14	2.08	2.08				
332	332	1300035349220				Delphi Lockheed Auto Ltd		147.14	3.25	3.25				
333	333	1300035349346				Thyssen Krupp (Group)		147.14	5.34	5.34				
334	334	1300035349355				New Horizon Global Ltd		147.14	3.32	3.32				
335	335	1300035349639				Seaforth Commill		147.14	5.08	5.08				
337	337	1300035350680				News International Plc		147.14	3.85	3.85				
338	338	1300035351248				Essex International Limited	0.920	147.14	2.56	2.56				
339	339	1300035351735				Elizabeth II Law Courts		147.14	2.81	2.81				
340	340	1300035351967				Downing Property Services Ltd		147.14	5.22	5.22				
341	341	1300035352739				Canada Dock		147.14	3.30	3.30				
343	343	1300035352970				Liverpool Airport		147.14	11.31	11.31				
344	344	1300035354179				HP Chemie Pelzer Uk Ltd		147.14	7.86	7.86				
345	345	1300035354986				Novelis Uk Ltd	3.407	147.14	8.41	8.41				
346	346	1300035355118				PQ Silicas UK Ltd	3.426	220.71	6.19	6.19				
347	347	1300035355136				Baronet Works	3.387	2166.99	8.44	8.44				
348	348	1300035355749				Unifrax Ltd	2.489	147.14	7.91	7.91				
349	349	1300035355837				Delta Metals	2.703	147.14	5.57	5.57				
350	350	1300035355970				M Baker Recycling Limited	2.736	147.14	8.19	8.19				
351	351	1300035356194				BOC Limited	2.787	147.14	9.10	9.10				
352	352	1300035356380				Daresbury Laboratory		147.14	5.00	5.00				
353	353	1300035356724				Gypsum		2742.18	7.88	7.88				
354	354	1300035356770				Dyson Group Plc	0.927	147.14	10.86	10.86				
356	356	1300035357009				Rockwood Additives Ltd	0.850	147.14	4.32	4.32				
358	358	1300035359600				Greif Uk Ltd	0.878	147.14	8.75	8.75				
359	359	1300035359673				BP International Limited	0.947	147.14	6.78	6.78				
360	360	1300035359799				Shell UK Limited	0.995	147.14	5.89	5.89				
361	361	1300035359901				Owens Corning UK	0.290	147.14	10.22	10.22				
362	362	1300035360181				Cadbury Schweppes Plc	2.477	147.14	10.57	10.57				
363	363	1300035360580				Kelloggs Company Of GB Ltd	2.249	147.14	8.25	8.25				
364	364	1300035360679				Bryn Lane Properties Llp	2.138	795.90	1.79	1.79				
365	365	1300035360688				BICC Wrexham	2.355	147.14	7.42	7.42				
366	366	1300035361130				M&S Financial Services	3.820	147.14	6.30	6.30				
367	367	1300035361812				Element Six Production Ltd	0.296	147.14	2.12	2.12				
368	368	1300035361983				Barry Callebaut (Uk) Ltd	4.239	147.14	1.87	1.87				
369	369	1300035362295				Caparo Steel Products Ltd	2.619	147.14	4.27	4.27				
370	370	1300035362700				Thermal Ceramics Ltd	1.099	147.14	3.09	3.09				

371	371	1300035362904				Egerton Dock	2.699	12822.14									
372	372	1300035362978				Shell UK	2.875	147.14	5.35	5.35							
373	373	1300035363067				Mobil Sasol		147.14	4.60	4.60							
374	374	1300035363191				Burtens Foods Ltd		147.14	7.69	7.69							
375	375	1300035363225				Unilever UK	0.924	147.14	3.94	3.94							
376	376	1300035363252				Champion Properties LLP		147.14	7.16	7.16							
377	377	1300035363883	719	719	1300060263839	Nestle UK Ltd	0.618	86.16	1.89	1.89		60.98	0.04	0.04			
378	378	1300035364060				A&P Falmouth Ltd	2.577	1444.66	4.85	4.85							
379	379	1300035364177				Barclays Bank Plc	2.647	147.14	10.49	10.49							
380	380	1300035364256				Harman Technology Limited	2.678	147.14	6.19	6.19							
381	381	1300035364432				Twyfords Bathrooms	1.744	147.14	3.86	3.86							
382	382	1300035364646				Morning Foods Limited	1.820	147.14	7.48	7.48							
383	383	1300035364822				Fisons	2.642	147.14	7.22	7.22							
384	384	1300035365161				N W F Ltd	1.851	147.14	13.51	13.51							
385	385	1300035365240				Linpac Wcb	2.757	147.14	8.28	8.28							
386	386	1300035365287				Britton Group Plc	2.772	147.14	11.96	11.96							
387	387	1300035366494				Synthite		147.14	11.05	11.05							
388	388	1300035366801				Novar Plc	0.219	147.14	9.11	9.11							
389	389	1300035368232				Bangor Hospital (Health Sup)		147.14	7.28	7.28							
390	390	1300035351860				Copperas Hill (Royal Mail)		147.14	2.37	2.37							
391	391	1300035368400				Bourne Leisure Limited		147.14	6.55	6.55							
392	392	1300035368428				Rehau Ltd		147.14	9.66	9.66							
393	393	1300035370116				University Of Wales	1.518	147.14	17.33	17.33							
394	394	1300035618356				Smiths Group Plc		147.14	6.26	6.26							
395	395	1300038178922				Yardley Plastic		147.14	5.89	5.89							
397	397	1300050455959				Tulip International Ltd	1.041	147.14	4.04	4.04							
398	398	1300050482127				Unilever Research	0.944	147.14	4.78	4.78							
399	399	1300050628390	717	717	1300050867852	Seaforth		22.23	1.53	1.53							
450	450	1300050632704				Decoma-Merplas	0.744	147.14	7.70	7.70							
451	451	1300050781976				Sonae UK Limited		2889.32	1.51	1.51							
452	452	1300050955454				Gilbrook Dock		10612.14									
453	453	1300050977573				UU Water Plc - Woodside	2.700	1358.55	4.74	4.74	-2.581	86.11	0.04	0.04			
454	454	1300050977670				UU Water Plc - Bromborough	0.956	1444.66	3.99	3.99							
455	455	1300051438963				S Norton & Co. Ltd	0.566	1444.66	1.89	1.89							
456	456	1300051517481				MOD - RAF Sealand		147.14	4.84	4.84							
457	457	1300051708346				Healthcare Distribution		147.14	5.46	5.46							
458	458	1300052182955				Aluminium Powder Company	0.496	147.14	18.43	18.43							
459	459	1300053398578				Chiron Vaccines	0.672	1444.66	3.54	3.54							
460	460	1300054917684				ESP		147.14	3.25	3.25							
461	461	1300060172544				Neptune (Mann Island)		1444.66	12.38	12.38							
462	462	1300035352260	710	710	1300051349870	L.A.H. Teaching Hospital		322.84	2.01	2.01							
463	463	1300035354123	711	711	1300052227204	UU Water Plc - Sandon Dock	0.558	621.38	5.15	5.15	-0.295	278.06	0.04	0.04			
464	464	1300035355242	712	712	1300053163518	UU Water Plc Gateworth Sewage	3.306	118.19	6.23	6.23	-3.220	28.96	0.04	0.04			
465	465	1300035359770	713	713	1300050970114	UU Water Plc - Huntington	4.016	28.50	6.82	6.82							
466	466	1300035401331	714	714	1300052226920	UU Water Plc - Shell Green	0.959	364.95	6.16	6.16							
467	467	1300035353148	715	715	1300052368838	Eli Lilly & Co	0.677	704.37	4.17	4.17							
468	468	1300035355794	703	703	1300050867791	Pilkington Glass - Greengate	2.594	406.53	1.90	1.90							
469	469	1300035355882	704	704	1300050867807	Pilkington Glass - Cowley Hill	2.397	358.71	1.72	1.72							
470	470	1300035355190	718	718	1300054580101	Iceland	3.406	139.79	13.45	13.45	-4.007	7.36	0.04	0.04			
471	471	1300035359813				Meadow Foods Ltd	3.912	147.14	5.78	5.78							
472	472	1300035362746				Wirral Hospital		147.14	8.14	8.14							
473	473	1300035366174				Conway & Denbighshire NHS Trust	2.566	147.14	11.35	11.35							
474	474	1300035438261				Morrisons (Dist Centre)	2.756	147.14	6.28	6.28							
475	475	1300060172562				Mersey Travel (Mann Island)		73.57	2.96	2.96							
476	476	1300050712379				Pilkington Glass HO	2.782	147.14	5.72	5.72							
477	477	1300051517515				Mod - Raf Valley	0.471	147.14	13.34	13.34							
478	478	1300051517747				Mod - Shawbury	2.139	73.57	17.15	17.15							

479	479	1300035365640				Crewe Station	1.807	147.14	7.07	7.07				
480	480	1300051747708				Merseyside PTA	0.511	147.14	3.51	3.51				
481	481	1300035356255				Mackamax Primary		73.57	4.83	4.83				
482	482	1300035352906				Whiston Hospital	0.885	147.14	8.16	8.16				
483	483	1300052598765	716	716	1300060245403	Maw Green 2	0.946	1.99	1.92	1.92				
484	484	1300035355999	702	702	1300050867755	Pilkington Glass - Watson Street	2.862	242.13	1.61	1.61				
486	486	1300060340420				BAE Radway	1.737	2014.10	5.66	5.66				
487	487	1300035349480				Aintree Fazakerly Hospital		2741.91	4.25	4.25				
488	488	1300060436633				Unilever (Chester Gates)	1.035	1880.89	5.97	5.97				
489	489	1300060222169				Unilever (Georgia)	0.952	409.03	5.11	5.11				
823	823		659	659		Bodelith Isaf WF		165.40	3.85	3.85		5803.39	0.04	0.04
820	820	1300060563740	658	658	1300060563759	Tyn dryfol PV		5.62	3.89	3.89	-0.469	1687.51	0.04	0.04
880	880		670	670		Twemelows Hall PV	0.933	20.29	4.64	4.64		5478.22	0.04	0.04
837	837		662	662		Yegellog WF		249.22	3.89	3.89		1226.09	0.04	0.04
826	826		661	661		Combermere Abbey PV		7.13	6.24	6.24	-1.745	1747.71	0.04	0.04
825	825		660	660		Moss Farm PV		4.93	5.27	5.27	-1.745	2146.35	0.04	0.04
811	811		655	655		Gerard Hall PV		18.54	4.94	4.94	-0.477	4098.48	0.04	0.04
884	884		664	664		Orrell Hill PV		7.62	4.94	4.94	-0.477	1652.43	0.04	0.04
888	888					Winsford Salt	1.986	6270.84	8.45	8.45				
876	876		676	676		Ebnal Lodge PV	0.933	5.31	4.80	4.80	-2.309	885.78	0.04	0.04

Annex 3 - Schedule of charges for use of the distribution system by preserved/additional LLF classes

SP Manweb - Effective from 1 April 2015 - Indicative LV and HV tariffs									
NHH preserved charges/additional LLFCs									
	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	3.788	0.414		3.91			
Domestic Off Peak (related MPAN)	135, 136, 137, 138, 140, 141, 142, 143	2	0.407						
Small Non Domestic Unrestricted	207	3	2.961			5.01			
Small Non Domestic Two Rate	208, 210	4	3.334	0.289		5.01			
Small Non Domestic Off Peak (related MPAN)	233, 234, 235, 236, 237	4	0.331						
HV Medium Non-Domestic	405	5-8	2.305	0.185		212.43			
Notes:	<p>Unit time periods are as specified in the SSC.</p> <p>SPManweb uses a default tariff for invalid settlement combinations these will be charged at the Domestic Unrestricted Rates.</p> <p>The Domestic and Non-Domestic Off Peak (related MPAN) tariffs are supplementary to a standard published tariff and therefore only available under these conditions.</p> <p>Preserved tariffs are only available to existing supplies, subject to certain conditions:</p> <p>a) Suppliers may not normally transfer a meter point from one preserved tariff to another preserved tariff;</p> <p>b) If a supply under a preserved tariff should cease, other than on change of tenancy, the preserved tariff may not normally be restored;</p> <p>c) Any additional load required to be supplied on the preserved tariff must be within the existing supply capacity.</p>								

HH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Unit rate 1 p/kWh (red/black)	Unit rate 2 p/kWh (amber/yellow)	Unit rate 3 p/kWh (green)	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess Capacity charge p/kVA
LV HH Metered	501		14.731	1.213	0.230	19.99	2.60	0.594	2.60
LV Sub HH Metered	503		12.991	0.817	0.203	7.06	5.31	0.460	5.31
HV HH Metered	505		10.160	0.527	0.145	106.83	4.12	0.323	4.12
Notes:	<p>Time periods</p> <p>The time periods for each unit rate where applicable are as indicated on Annex 1</p> <p>Preserved tariffs are only available to existing supplies, subject to certain conditions:</p> <p>a) Suppliers may not normally transfer a meter point from one preserved tariff to another preserved tariff;</p> <p>b) If a supply under a preserved tariff should cease, other than on change of tenancy, the preserved tariff may not normally be restored;</p> <p>c) Any additional load required to be supplied on the preserved tariff must be within the existing supply capacity.</p>								

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

SP Manweb - Effective from 1 April 2015 - Indicative LDNO tariffs

Time Bands for Half Hourly Metered Properties				Time Bands for Half Hourly Unmetered Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band	Black Time Band	Yellow Time Band	Green Time Band	
Monday to Friday (Including Bank Holidays) All Year	16.30 - 19.30	08.00 - 16.30 19.30 - 22.30	00.00 - 08.00 22.30 - 00.00		08.00 - 22.30	00.00 - 08.00 22.30 - 00.00	
Saturday and Sunday All Year		16.00 - 20.00	00.00 - 16.00 20.00 - 00.00	16.30 - 19.30	08.00 - 16.30 19.30 - 22.30	00.00 - 08.00 22.30 - 00.00	
Notes	All the above times are in UK Clock time						

Time periods	Black Time Band	Yellow Time Band	Green Time Band	
Monday to Friday (Including Bank Holidays) June to August Inclusive		08.00 - 22.30	00.00 - 08.00 22.30 - 00.00	
Monday to Friday (Including Bank Holidays) November to February Inclusive	16.30 - 19.30	08.00 - 16.30 19.30 - 22.30	00.00 - 08.00 22.30 - 00.00	
Monday to Friday (Including Bank Holidays) March to May, & September to October, Inclusive		08.00 - 22.30	00.00 - 08.00 22.30 - 00.00	
Saturday and Sunday		16.00 - 20.00	00:00-16:00 20:00-00:00	
Notes	All the above times are in UK Clock time			

	Unique billing identifier	PCs	Unit rate 1 p/kWh (red/black)	Unit rate 2 p/kWh (amber/yellow)	Unit rate 3 p/kWh (green)	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	2.174			2.60			
LDNO LV: Domestic Two Rate		2	2.514	0.275		2.60			
LDNO LV: Domestic Off Peak (related MPAN)		2	0.270						
LDNO LV: Small Non Domestic Unrestricted		3	1.965			3.33			
LDNO LV: Small Non Domestic Two Rate		4	2.213	0.192		3.33			
LDNO LV: Small Non Domestic Off Peak (related MPAN)		4	0.220						
LDNO LV: LV Medium Non-Domestic		5-8	2.194	0.171		13.46			
LDNO LV: LV Network Domestic			12.289	1.155	0.194	2.60			
LDNO LV: LV Network Non-Domestic Non-CT			11.864	1.076	0.185	3.33			
LDNO LV: LV HH Metered			9.777	0.805	0.153	13.27	1.73	0.394	1.73
LDNO LV: NHH UMS category A		8	1.360						
LDNO LV: NHH UMS category B		1	1.790						
LDNO LV: NHH UMS category C		1	3.077						
LDNO LV: NHH UMS category D		1	1.044						
LDNO LV: LV UMS (Pseudo HH Metered)			23.489	1.051	0.375				
LDNO LV: LV Generation NHH or Aggregate HH		8&0	-1.274						
LDNO LV: LV Generation Intermittent			-1.274					0.357	
LDNO LV: LV Generation Non-Intermittent			-8.766	-1.044	-0.157			0.357	
LDNO HV: Domestic Unrestricted		1	1.281			1.53			
LDNO HV: Domestic Two Rate		2	1.482	0.162		1.53			
LDNO HV: Domestic Off Peak (related MPAN)		2	0.159						
LDNO HV: Small Non Domestic Unrestricted		3	1.158			1.96			
LDNO HV: Small Non Domestic Two Rate		4	1.304	0.113		1.96			
LDNO HV: Small Non Domestic Off Peak (related MPAN)		4	0.129						
LDNO HV: LV Medium Non-Domestic		5-8	1.293	0.101		7.93			
LDNO HV: LV Network Domestic			7.242	0.681	0.114	1.53			
LDNO HV: LV Network Non-Domestic Non-CT			6.991	0.634	0.109	1.96			
LDNO HV: LV HH Metered			5.762	0.474	0.090	7.82	1.02	0.232	1.02
LDNO HV: LV Sub HH Metered			8.087	0.509	0.126	4.40	3.31	0.286	3.31
LDNO HV: HV HH Metered			7.123	0.369	0.102	74.89	2.89	0.226	2.89
LDNO HV: NHH UMS category A		8	0.801						
LDNO HV: NHH UMS category B		1	1.055						
LDNO HV: NHH UMS category C		1	1.813						
LDNO HV: NHH UMS category D		1	0.615						
LDNO HV: LV UMS (Pseudo HH Metered)			13.842	0.619	0.221				
LDNO HV: LV Generation NHH or Aggregate HH		8&0	-1.274						
LDNO HV: LV Sub Generation NHH		8	-1.140						
LDNO HV: LV Generation Intermittent			-1.274					0.357	
LDNO HV: LV Generation Non-Intermittent			-8.766	-1.044	-0.157			0.357	
LDNO HV: LV Sub Generation Intermittent			-1.140					0.332	
LDNO HV: LV Sub Generation Non-Intermittent			-7.973	-0.899	-0.144			0.332	
LDNO HV: HV Generation Intermittent			-0.745					0.253	
LDNO HV: HV Generation Non-Intermittent			-5.812	-0.439	-0.104			0.253	

LDNO HVplus: Domestic Unrestricted		1	1.036			1.24			
LDNO HVplus: Domestic Two Rate		2	1.198	0.131		1.24			
LDNO HVplus: Domestic Off Peak (related MPAN)		2	0.129						
LDNO HVplus: Small Non Domestic Unrestricted		3	0.936			1.58			
LDNO HVplus: Small Non Domestic Two Rate		4	1.054	0.091		1.58			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		4	0.105						
LDNO HVplus: LV Medium Non-Domestic		5-8	1.045	0.082		6.41			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	1.529	0.120		13.06			
LDNO HVplus: HV Medium Non-Domestic		5-8	1.258	0.101		115.98			
LDNO HVplus: LV Network Domestic			5.855	0.550	0.092	1.24			
LDNO HVplus: LV Network Non-Domestic Non-CT			5.652	0.513	0.088	1.58			
LDNO HVplus: LV HH Metered			4.658	0.384	0.073	6.32	0.82	0.188	0.82
LDNO HVplus: LV Sub HH Metered			6.355	0.400	0.099	3.45	2.60	0.225	2.60
LDNO HVplus: HV HH Metered			5.547	0.288	0.079	58.33	2.25	0.176	2.25
LDNO HVplus: NHH UMS category A		8	0.648						
LDNO HVplus: NHH UMS category B		1	0.853						
LDNO HVplus: NHH UMS category C		1	1.466						
LDNO HVplus: NHH UMS category D		1	0.497						
LDNO HVplus: LV UMS (Pseudo HH Metered)			11.190	0.501	0.179				
LDNO HVplus: LV Generation NHH or Aggregate HH		8&0	-0.623			0.00			
LDNO HVplus: LV Sub Generation NHH		8	-0.622			0.00			
LDNO HVplus: LV Generation Intermittent			-0.623			0.00		0.175	
LDNO HVplus: LV Generation Non-Intermittent			-4.288	-0.511	-0.077	0.00		0.175	
LDNO HVplus: LV Sub Generation Intermittent			-0.622			0.00		0.181	
LDNO HVplus: LV Sub Generation Non-Intermittent			-4.353	-0.491	-0.079	0.00		0.181	
LDNO HVplus: HV Generation Intermittent			-0.745			78.01		0.253	
LDNO HVplus: HV Generation Non-Intermittent			-5.812	-0.439	-0.104	78.01		0.253	
LDNO EHV: Domestic Unrestricted		1	0.748			0.89			
LDNO EHV: Domestic Two Rate		2	0.865	0.095		0.89			
LDNO EHV: Domestic Off Peak (related MPAN)		2	0.093						
LDNO EHV: Small Non Domestic Unrestricted		3	0.676			1.14			
LDNO EHV: Small Non Domestic Two Rate		4	0.762	0.066		1.14			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)		4	0.076						
LDNO EHV: LV Medium Non-Domestic		5-8	0.755	0.059		4.63			
LDNO EHV: LV Sub Medium Non-Domestic		5-8	1.105	0.087		9.43			
LDNO EHV: HV Medium Non-Domestic		5-8	0.909	0.073		83.78			
LDNO EHV: LV Network Domestic			4.229	0.397	0.067	0.89			
LDNO EHV: LV Network Non-Domestic Non-CT			4.083	0.370	0.063	1.14			
LDNO EHV: LV HH Metered			3.365	0.277	0.053	4.57	0.59	0.136	0.59
LDNO EHV: LV Sub HH Metered			4.590	0.289	0.072	2.49	1.88	0.163	1.88
LDNO EHV: HV HH Metered			4.007	0.208	0.057	42.13	1.62	0.127	1.62
LDNO EHV: NHH UMS category A		8	0.468						
LDNO EHV: NHH UMS category B		1	0.616						
LDNO EHV: NHH UMS category C		1	1.059						
LDNO EHV: NHH UMS category D		1	0.359						
LDNO EHV: LV UMS (Pseudo HH Metered)			8.083	0.362	0.129				
LDNO EHV: LV Generation NHH or Aggregate HH		8&0	-0.450			0.00			
LDNO EHV: LV Sub Generation NHH		8	-0.450			0.00			
LDNO EHV: LV Generation Intermittent			-0.450			0.00		0.126	
LDNO EHV: LV Generation Non-Intermittent			-3.097	-0.369	-0.055	0.00		0.126	
LDNO EHV: LV Sub Generation Intermittent			-0.450			0.00		0.131	
LDNO EHV: LV Sub Generation Non-Intermittent			-3.144	-0.355	-0.057	0.00		0.131	
LDNO EHV: HV Generation Intermittent			-0.538			56.35		0.183	
LDNO EHV: HV Generation Non-Intermittent			-4.198	-0.317	-0.075	56.35		0.183	
LDNO 132kV/EHV: Domestic Unrestricted		1	0.551			0.66			
LDNO 132kV/EHV: Domestic Two Rate		2	0.637	0.070		0.66			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		2	0.068						
LDNO 132kV/EHV: Small Non Domestic Unrestricted		3	0.498			0.84			
LDNO 132kV/EHV: Small Non Domestic Two Rate		4	0.561	0.049		0.84			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		4	0.056						
LDNO 132kV/EHV: LV Medium Non-Domestic		5-8	0.556	0.043		3.41			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.813	0.064		6.94			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.669	0.054		61.69			

LDNO 132kV/EHV: LV Network Domestic			3.114	0.293	0.049	0.66			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT			3.006	0.273	0.047	0.84			
LDNO 132kV/EHV: LV HH Metered			2.478	0.204	0.039	3.36	0.44	0.100	0.44
LDNO 132kV/EHV: LV Sub HH Metered			3.380	0.213	0.053	1.84	1.38	0.120	1.38
LDNO 132kV/EHV: HV HH Metered			2.951	0.153	0.042	31.02	1.20	0.094	1.20
LDNO 132kV/EHV: NHH UMS category A		8	0.345						
LDNO 132kV/EHV: NHH UMS category B		1	0.454						
LDNO 132kV/EHV: NHH UMS category C		1	0.780						
LDNO 132kV/EHV: NHH UMS category D		1	0.265						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)			5.952	0.266	0.095				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH		8&0	-0.331			0.00			
LDNO 132kV/EHV: LV Sub Generation NHH		8	-0.331			0.00			
LDNO 132kV/EHV: LV Generation Intermittent			-0.331			0.00		0.093	
LDNO 132kV/EHV: LV Generation Non-Intermittent			-2.281	-0.272	-0.041	0.00		0.093	
LDNO 132kV/EHV: LV Sub Generation Intermittent			-0.331			0.00		0.096	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent			-2.315	-0.261	-0.042	0.00		0.096	
LDNO 132kV/EHV: HV Generation Intermittent			-0.396			41.49		0.135	
LDNO 132kV/EHV: HV Generation Non-Intermittent			-3.091	-0.234	-0.055	41.49		0.135	
LDNO 132kV: Domestic Unrestricted		1	0.252			0.30			
LDNO 132kV: Domestic Two Rate		2	0.291	0.032		0.30			
LDNO 132kV: Domestic Off Peak (related MPAN)		2	0.031						
LDNO 132kV: Small Non Domestic Unrestricted		3	0.227			0.38			
LDNO 132kV: Small Non Domestic Two Rate		4	0.256	0.022		0.38			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		4	0.025						
LDNO 132kV: LV Medium Non-Domestic		5-8	0.254	0.020		1.56			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.371	0.029		3.17			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.306	0.025		28.17			
LDNO 132kV: LV Network Domestic			1.422	0.134	0.022	0.30			
LDNO 132kV: LV Network Non-Domestic Non-CT			1.373	0.124	0.021	0.38			
LDNO 132kV: LV HH Metered			1.431	0.093	0.018	1.54	0.20	0.046	0.20
LDNO 132kV: LV Sub HH Metered			1.543	0.097	0.024	0.84	0.63	0.055	0.63
LDNO 132kV: HV HH Metered			1.347	0.070	0.019	14.17	0.55	0.043	0.55
LDNO 132kV: NHH UMS category A		8	0.157						
LDNO 132kV: NHH UMS category B		1	0.207						
LDNO 132kV: NHH UMS category C		1	0.356						
LDNO 132kV: NHH UMS category D		1	0.121						
LDNO 132kV: LV UMS (Pseudo HH Metered)			2.718	0.122	0.043				
LDNO 132kV: LV Generation NHH or Aggregate HH		8&0	-0.151			0.00			
LDNO 132kV: LV Sub Generation NHH		8	-0.151			0.00			
LDNO 132kV: LV Generation Intermittent			-0.151			0.00		0.042	
LDNO 132kV: LV Generation Non-Intermittent			-1.041	-0.124	-0.019	0.00		0.042	
LDNO 132kV: LV Sub Generation Intermittent			-0.151			0.00		0.044	
LDNO 132kV: LV Sub Generation Non-Intermittent			-1.057	-0.119	-0.019	0.00		0.044	
LDNO 132kV: HV Generation Intermittent			-0.181			18.95		0.061	
LDNO 132kV: HV Generation Non-Intermittent			-1.412	-0.107	-0.025	18.95		0.061	
LDNO 0000: Domestic Unrestricted		1	0.000			0.00			
LDNO 0000: Domestic Two Rate		2	0.000	0.000		0.00			
LDNO 0000: Domestic Off Peak (related MPAN)		2	0.000						
LDNO 0000: Small Non Domestic Unrestricted		3	0.000			0.00			
LDNO 0000: Small Non Domestic Two Rate		4	0.000	0.000		0.00			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)		4	0.000						
LDNO 0000: LV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 0000: HV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 0000: LV Network Domestic			0.000	0.000	0.000	0.00			
LDNO 0000: LV Network Non-Domestic Non-CT			0.000	0.000	0.000	0.00			
LDNO 0000: LV HH Metered			0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: LV Sub HH Metered			0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: HV HH Metered			0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: NHH UMS category A		8	0.000						
LDNO 0000: NHH UMS category B		1	0.000						
LDNO 0000: NHH UMS category C		1	0.000						

LDNO 0000: NHH UMS category D		1	0.000						
LDNO 0000: LV UMS (Pseudo HH Metered)			0.000	0.000	0.000				
LDNO 0000: LV Generation NHH or Aggregate HH		8&0	0.000			0.00			
LDNO 0000: LV Sub Generation NHH		8	0.000			0.00			
LDNO 0000: LV Generation Intermittent			0.000			0.00		0.000	
LDNO 0000: LV Generation Non-Intermittent			0.000	0.000	0.000	0.00		0.000	
LDNO 0000: LV Sub Generation Intermittent			0.000			0.00		0.000	
LDNO 0000: LV Sub Generation Non-Intermittent			0.000	0.000	0.000	0.00		0.000	
LDNO 0000: HV Generation Intermittent			0.000			0.00		0.000	
LDNO 0000: HV Generation Non-Intermittent			0.000	0.000	0.000	0.00		0.000	

Annex 5 - Schedule of line loss factors

SP Manweb - Effective from 1 April 2015 - Indicative LLF Time Periods				
Time periods	Period 1	Period 2	Period 3	Period 4
	(Name 1)	(Name 2)	(Name 3)	(Name 4)
Monday to Friday March to October	23:30 – 07:30	07:30 – 23:30		
Monday to Friday November to February	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	1.088	1.109	1.122	1.142	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	1.067	1.072	207, 208, 209, 210, 403, 404, 503, 513, 592, 780, 788, 789, 792, 796,
High Voltage Network	1.033	1.040	1.045	1.050	405, 505, 515, 593, 770, 771, 793, 797, MSID 0038
High Voltage Substation	1.025	1.028	1.030	1.033	300 to 399 inclusive, 445 to 499 inclusive, 700 to 725 inclusive
33kV Generic (demand)	1.016	1.019	1.021	1.023	
33kV Generic (generation)	1.012	1.013	1.014	1.015	
132kV Generic (demand)	1.004	1.005	1.006	1.007	
132kV Generic (generation)	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	1.043	1.047	1.044	1.048	803
Jaguar & Land Rover	1.073	1.080	1.078	1.087	804
Innospec	1.035	1.046	1.043	1.052	805
Bridgewater Paper	1.030	1.034	1.034	1.038	806
General Motors	1.028	1.032	1.031	1.034	807
TATA Steel	1.019	1.022	1.020	1.026	808
Urenco	1.029	1.030	1.030	1.032	809
Ineos Chlor Ltd (Lostock)	1.040	1.058	1.046	1.066	810
Knauf Insulation	1.078	1.088	1.084	1.096	812
Air Products	1.052	1.057	1.055	1.060	813
Shell Chemicals	1.043	1.047	1.045	1.050	814
GrowHow	1.044	1.047	1.046	1.049	815
Castle Cement	1.022	1.029	1.024	1.033	816
Kronospan	1.038	1.052	1.043	1.062	817
Albion Inorganic	1.027	1.038	1.032	1.045	819
BHP	1.037	1.061	1.051	1.074	821
Hole House Farm	1.031	1.042	1.038	1.051	822
Port of Liverpool	1.010	1.016	1.014	1.021	824
Kimberley Clark	1.045	1.069	1.052	1.079	827
Amegni	1.012	1.028	1.022	1.039	828
Salt Union	1.059	1.069	1.065	1.068	829
Ineos Chlor Ltd (Percival Lane)	1.067	1.075	1.071	1.080	831
Toyota	1.022	1.028	1.023	1.031	833
Warmingham Gas Storage	1.068	1.084	1.075	1.098	834
Arpley Landfill	1.017	1.034	1.031	1.000	835
Amcor	1.026	1.032	1.027	1.037	836
Cemmaes C	1.036	1.046	1.069	1.096	838
PG Strand Gate	1.036	1.045	1.042	1.052	839
Moel Maelogan (A)	1.007	1.023	1.016	1.029	840
Moel Maelogan (B)	1.007	1.023	1.016	1.029	841
North Hoyle	1.020	1.038	1.029	1.046	842
Cefn Croyes (3)	1.054	1.068	1.064	1.076	843
Cefn Croyes (4)	1.054	1.068	1.064	1.076	844
Tir Mostyn	1.026	1.055	1.042	1.072	845
Mynydd Clogau	1.008	1.034	1.031	1.045	846
Granox	1.013	1.021	1.018	1.027	847
Tai Moelion	1.016	1.019	1.021	1.023	848
Braich Ddu	1.016	1.012	1.019	1.023	849
Moel Maelogan 2	1.007	1.023	1.016	1.029	851
Trafalgar Dock	1.068	1.076	1.073	1.080	852
CEW	1.016	1.019	1.021	1.023	853
Wern Ddu	1.029	1.055	1.040	1.073	854
Rhyl Flats	1.017	1.033	1.027	1.042	856
Seaforth Liverpool Dock 2	1.016	1.019	1.021	1.023	857

Cemmaes B	1.036	1.046	1.069	1.096	865
Penrhyddlan	1.026	1.059	1.047	1.083	866
Lidartywaun	1.008	1.041	1.041	1.065	867
Rhyd y Groes	0.996	0.993	0.994	0.995	868
Llangwyrfon	1.023	1.043	1.038	1.057	869
Storenergy (Lostock)	1.019	1.025	1.022	1.030	870
Rheidol	1.005	1.017	1.014	1.024	871
Carno B	1.012	1.028	1.022	1.039	872
Carno A	1.012	1.028	1.022	1.039	873
Trysglwyn	1.008	1.008	1.008	1.010	874
Llanabo	1.009	1.008	1.008	1.010	875
Quinn Glass	1.043	1.047	1.046	1.050	877
Liverpool Int Bus Park	1.063	1.071	1.068	1.078	878
Mynydd Gorduu	1.022	1.049	1.041	1.065	887
PG Winnington	1.038	1.047	1.043	1.052	898
Airbus UK Ltd (33kV)	1.016	1.019	1.021	1.023	899
Network Rail (Crewe)	1.045	1.053	1.050	1.060	921
Network Rail (Speke)	1.073	1.079	1.077	1.086	922
Network Rail (Bankhall)	1.074	1.085	1.080	1.092	923
Network Rail (Bromborough)	1.045	1.055	1.051	1.063	924
Network Rail (Shore Road)	1.041	1.046	1.044	1.050	925
Shotton Paper	1.000	1.000	1.000	1.000	MSID 7120
Burbo Bank	0.997	0.999	0.997	0.999	MSID 7203
Risley	1.019	1.023	1.023	1.027	MSID 0030
Bold	1.039	1.050	1.060	1.069	MSID 0031/32
Dolgarrog PS	0.986	0.991	0.985	0.991	MSID 4532/33
Bodelith Isaf WF	1.016	1.019	1.021	1.023	823
Tyn dryfol PV	1.016	1.019	1.021	1.023	820
Twemelows Hall PV	1.016	1.019	1.021	1.023	880
Yegellog WF	1.016	1.019	1.021	1.023	837
Combermere Abbey PV	1.016	1.019	1.021	1.023	826
Moss Farm PV	1.016	1.019	1.021	1.023	825
Gerard Hall PV	1.016	1.019	1.021	1.023	811
Orrell Hill PV	1.016	1.019	1.021	1.023	884
Winsford Salt	1.016	1.019	1.021	1.023	888
Ebnal Lodge PV	1.016	1.019	1.021	1.023	876

EHV sites specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Shell Stanlow	1.031	1.031	1.033	1.033	603
Bridgewater Paper	1.001	1.003	1.002	1.003	606
Albion Inorganic	1.024	1.029	1.023	1.025	619
BHP	1.023	1.044	1.039	1.058	621
Port of Liverpool	1.008	1.014	1.012	1.018	604
Amegni	0.987	0.999	1.000	1.010	628
Salt Union	1.032	1.032	1.033	1.033	629
Arpley Landfill	1.003	1.012	1.010	1.019	635
Cemmaes C	0.960	0.993	0.962	0.983	638
PG Strand Gate	0.990	0.996	0.994	0.999	639
Moel Maelogan (A)	0.972	0.984	0.977	0.986	640
Moel Maelogan (B)	0.972	0.984	0.977	0.986	641
North Hoyle	0.987	0.997	0.991	1.001	642
Cefn Croyes (3)	1.044	1.059	1.051	1.066	643
Cefn Croyes (4)	1.037	1.050	1.042	1.055	644
Tir Mostyn	0.981	1.000	0.985	1.005	645
Mynydd Clogau	1.001	1.020	1.015	1.030	646
Granox	1.011	1.017	1.016	1.023	647
Tai Moelion	1.012	1.013	1.014	1.015	651
Braich Ddu	0.979	1.000	0.982	0.921	649
Moel Maelogan 2	0.972	0.984	0.977	0.986	611
CEW	1.012	1.013	1.014	1.015	653
Wern Ddu	0.995	1.012	0.998	1.022	654
Rhyl Flats	1.000	1.015	1.008	1.022	656
Cemmaes B	0.960	0.993	0.962	0.983	665
Penfhyddlan	0.985	0.979	0.934	0.956	666
Lidartywaun	0.956	0.986	0.968	0.993	667
Rhyd y Groes	0.967	0.966	0.963	0.968	668
Llangwyrfon	0.996	1.011	1.002	1.018	669
Rheidol	1.012	1.028	1.023	1.037	671
Carno B	0.987	0.999	1.000	1.010	672
Carno A	0.987	0.999	1.000	1.010	673
Trysglwyn	0.985	0.985	0.983	0.986	674
Llanabo	0.973	0.972	0.968	0.972	675
Mynydd Gorddu	1.013	1.040	1.028	1.052	687
PG Winnington	1.015	1.021	1.017	1.022	698
Network Rail (Crewe)	1.020	1.026	1.024	1.031	691
Network Rail (Speke)	1.006	1.008	1.008	1.011	682
Shotton Paper	1.000	1.000	1.000	1.000	MSID 7120
Burbo Bank	0.997	0.999	0.997	0.999	MSID 7203
Dolgarrog PS	0.986	0.991	0.985	0.991	MSID 4532/33
Maentwrog PS	0.921	0.938	0.978	0.947	MSID 6015
Cwm Dylli PS	0.965	0.993	0.982	0.972	MSID 4054
Bodelith Isaf WF	1.012	1.013	1.014	1.015	659
Tyn dryfol PV	1.012	1.013	1.014	1.015	658
Twemelows Hall PV	1.012	1.013	1.014	1.015	670
Yegellog WF	1.012	1.013	1.014	1.015	662
Combermere Abbey PV	1.012	1.013	1.014	1.015	661
Moss Farm PV	1.012	1.013	1.014	1.015	660
Gerard Hall PV	1.012	1.013	1.014	1.015	655
Orrell Hill PV	1.012	1.013	1.014	1.015	664
Ebnal Lodge PV	1.012	1.013	1.014	1.015	676

Annex 6 - Addendum to charging statement detailing charges for new Designated EHV Properties