

**SP DISTRIBUTION PLC**

**Use of System Charging Statement**

**INDICATIVE NOTICE**

**Effective from 1st April 2014**

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

## Version Control

Version	Date	Description of version and any changes made
1	24 Dec 13	Indicative Charges

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

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## 1. Introduction

- 1.1. This statement has been prepared in order to discharge SP Distribution plc's obligation under standard licence condition 14 of its electricity distribution licence. It contains information about our charges<sup>1</sup> and charging principles for use of our distribution system. It also contains information about our line loss factors (LLFs).
- 1.2. 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 distribution charging methodology (EDCM) for Designated Extra-high voltage (EHV) Properties for metering point administration numbers/metering system identifiers (MPANs/MSIDs) connected to our designated distribution services area. The application of charges to a premises can usually be referenced using the line loss factor class (LLFC) contained in the charge tables.
- 1.3. All charges in this statement are shown exclusive of VAT.
- 1.4. The annexes that form part of this statement are also provided for additional convenience in spreadsheet format. This spreadsheet also contains supplementary information used for charging purposes but which is not required to be provided in accordance with standard licence condition 14. This spreadsheet can be downloaded from  
[http://www.scottishpower.com/pages/connections\\_use\\_of\\_system\\_and\\_metering\\_services.asp](http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp)
- 1.5. 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](mailto:commercial@scottishpower.com)  
Telephone: 0151 609 2335

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

- 1.6. 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

E-mail: [capacityq@scottishpower.com](mailto:capacityq@scottishpower.com)

Telephone: 0141 614 1605

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

## **2. Charge application and definitions**

### **Supercustomer billing and payment**

- 2.1. Supercustomer billing and payment applies to metering points registered as non-half-hourly (NHH) metered or NHH unmetered. The Supercustomer approach makes use of aggregated data obtained from the 'Supercustomer Distribution Use of System (DUoS) Report'.
- 2.2. Invoices are calculated on a periodic basis and sent to each user for whom SP Distribution is transporting electricity through its distribution system. Invoices are reconciled, over a period of approximately 14 months, to ensure the cash positions of users and SP Distribution are adjusted to reflect later and more accurate consumption figures.
- 2.3. 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) – specific to distribution network operators (DNOs). All LLFCs are assigned at the sole discretion of SP Distribution. Invoices take account of previous settlement runs and include VAT.

### **Supercustomer charges**

- 2.4. Supercustomer charges are generally billed through the following components:
  - a fixed charge - pence/MPAN/day, there will only be one fixed charge applied to each MPAN; and
  - unit charges, pence/kWh, more than one unit charge may be applied.
- 2.5. Users who wish to supply electricity to customers whose metering system is measurement class A or B, and settled on profile classes (PC) 1 through to 8 will be allocated the relevant charge structure set out in Annex 1.
- 2.6. Measurement class A charges apply to exit/entry points where NHH metering is used for settlement.

- 2.7. Measurement class B charges apply to exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001<sup>2</sup> and where operated in accordance with BSCP520<sup>3</sup>.
- 2.8. Identification of the appropriate charge can be made by cross-reference to the LLFC.
- 2.9. Valid settlement profile class/standard settlement configuration/meter timeswitch code (PC/SSC/MTC) combinations for these LLFCs are detailed in market domain data (MDD).
- 2.10. Where an MPAN has an invalid settlement combination, the 'Domestic Unrestricted' fixed and unit charge will be applied as default until the invalid combination is corrected. Where there are multiple standard settlement configuration/time pattern regime (SSC/TPR) combinations, the default 'Domestic Unrestricted' fixed and unit charge will be applied for each invalid TPR combination.
- 2.11. The time periods for the charge rates are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spread sheet that accompanies this statement<sup>4</sup>.
- 2.12. The 'Domestic Off-Peak' and 'Small Non-Domestic Off-Peak' charges are supplementary to either an unrestricted or a two-rate charge.

#### **Site-specific billing and payment**

- 2.13. Site-specific billing and payment applies to metering points settled as half-hourly (HH) metered. The site-specific billing and payment approach to use of system (UoS) billing makes use of HH metering data received through settlement.
- 2.14. Invoices are calculated on a periodic basis and sent to each user for whom SP Distribution is transporting electricity through its 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.

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<sup>2</sup> The Electricity (Unmetered Supply) Regulations 2001 available from <http://www.legislation.gov.uk/ukxi/2001/3263/made>

<sup>3</sup> Balancing and Settlement Code Procedures on unmetered supplies are available from <http://www.elexon.co.uk/pages/bscps.aspx>

<sup>4</sup> [SP Distribution plc] - Schedule of charges and other tables

- 2.15. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the MSID for central volume allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.16. All LLFCs are assigned at the sole discretion of SP Distribution. Where an incorrectly applied LLFC is identified, SP Distribution may at its sole discretion apply the correct LLFC and/or charges.

### **Site-specific billed charges**

- 2.17. 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.
- 2.18. 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.
- 2.19. Measurement class C, E or CVA charges apply to exit/entry points where HH metering, or an equivalent meter, is used for settlement purposes.
- 2.20. Measurement class D charges apply to exit points deemed to be suitable as unmetered supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001<sup>5</sup> and where operated in accordance with BSCP520<sup>6</sup>.
- 2.21. Fixed charges are generally levied on a pence per MPAN or pence per MSID basis.
- 2.22. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.23. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.

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<sup>5</sup> The Electricity (Unmetered Supply) Regulations 2001 available from <http://www.legislation.gov.uk/uksi/2001/3263/made>

<sup>6</sup> Balancing and Settlement Code Procedures on unmetered supplies and available from <http://www.elexon.co.uk/pages/bscps.aspx>



- 2.24. 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**

- 2.25. The time periods for the application of unit charges to LV and HV Designated Properties that are HH metered are detailed in Annex 1. SP Distribution has not issued a notice to change the time bands

- 2.26. The time periods for the application of unit charges to Designated EHV Properties are detailed in Annex 2. SP Distribution has not issued a notice to change the time bands.

**Time periods for half-hourly unmetered properties**

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

**Application of capacity charges**

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

**Chargeable capacity**

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

- 2.30. The MIC/MEC will be agreed with SP Distribution at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time of connection or later) no reduction in MIC/MEC will be allowed for a period of one year. In the absence of an agreement the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by the distributor for the relevant premises' connection. A customer can seek to agree or vary the MIC and/or MEC by contacting SP Distribution using the contact details in paragraph 1.6.

- 2.31. Reductions to the MIC/MEC may only be permitted once in a 12 month period and no retrospective changes will be allowed. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the customer's maximum demand. It should be noted that, where a new lower level is agreed,

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

### **Exceeded capacity**

2.32. 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**

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

Where:

AI = Active Import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

2.33. 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 AI is not equal to zero and AE is not equal to zero, use zero for RI and RE when calculating capacity taken.

2.34. 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)

2.35. 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 AI is not equal to zero and AE is not equal to zero, use zero for RI and RE when calculating capacity taken.

2.36. 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**

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

**Minimum capacity levels**

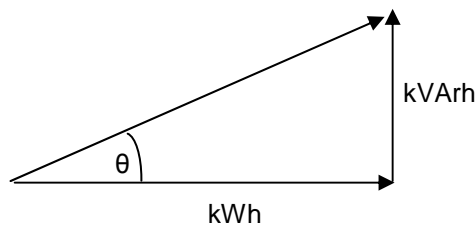
2.38. There is no minimum capacity threshold.

**Application of charges for excess reactive power**

2.39. 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.

2.40. Power factor is calculated as follows:

Cos θ = Power factor



2.41. The chargeable reactive power is calculated as follows:

**Demand chargeable reactive power**

Where:

$$D = \frac{kVArh}{m} \left( \frac{m}{a} (RI, RE) - \left( \sqrt{\left( \frac{1}{0.95^2} - 1 \right)} \times AI \right) \right)$$

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

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

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

2.44. 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)

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

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

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

#### **Generation charges for pre-2005 Designated EHV Properties**

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

- 25 years have passed since their first energisation/connection date (ie Designated EHV Properties with energisation/connection agreements dated prior to 1st April 2005, and for which 25 years has passed since their first energisation/connection date will receive generation use of system charges 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 SP Distribution that they wish to opt in to generation use of system charges.

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

2.49. 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 other non-exempt generators.

#### **Provision of billing data**

2.50. Where HH metering data is required for UoS charging and this is not provided through settlement processes, such metering data shall be provided by the user of the system to SP Distribution in respect of each calendar month within five working days of the end of that calendar month. The metering data shall identify the amount consumed and/or produced in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to SP Distribution shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by SP Distribution from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of D0036 MRA data flow (as agreed with the SP Distribution). The data shall be emailed to

<mailto:uosadministrators2@scottishpower.com>

2.51. SP Distribution requires details of reactive power imported or exported to be provided for all measurement class C (mandatory HH metered) sites and for measurement class E (elective HH metered sites). It is also required for CVA

sites and exempt distribution network boundaries with difference metering. SP Distribution reserves the right to levy a charge on users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.95 lag will be applied to the active consumption in any half hour.

### **Out of area use of system charges**

2.52. SP Distribution plc does not operate networks outside its distribution service area.

### **Licensed distribution network operator charges**

2.53. Licenced distribution network operator (LDNO) charges are applied to LDNOs who operate embedded networks within SP Distribution distribution services area.

2.54. 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.

2.55. 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.

2.56. 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.

2.57. For nested networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

### **Third party access from exempt distribution networks**

2.58. Where one of our MPANs (provide details of MPAN prefix relevant to SP Distribution's licence) is embedded within an exempt distribution network connected to one of SP Distribution's distribution systems, and a dispensation for difference metering is in place for settlement purposes, we will continue to charge the supplier of the boundary MPAN of the connection, based on gross

measurement for UoS. No charges will be levied directly to the customer or supplier of the embedded MPAN(s) connected within the exempt distribution network.

2.59. SP Distribution requires that gross metered data for the boundary of the connection is provided to them. Until a new flow is introduced for the sending of such gross data, gross metered data shall:

- be sent using the D0036 or D0275 MRA data flow; and
- the D0036 or D0275 shall contain the metering reference specified by SP Distribution in place of the boundary settlements MPAN.

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

2.61. Where the data collector is unable to send the D0036 or D0275 MRA data flow due to system constraints, gross metered data shall;

- be provided in a spreadsheet/text file in the format of the D0036 or D0275 MRA data flow;
- the spreadsheet/text file shall contain the metering reference specified by SP Distribution plc in place of the settlements MPAN;
- the spreadsheet/text file shall be emailed to [uos\\_administrators@scottishpower.com](mailto:uos_administrators@scottishpower.com);
- the spreadsheet/text filename shall be formed of the metering reference specified by SP Distribution followed by a hyphen and followed by a timestamp in the format YYYYMMDDHHMMSS and followed by “.txt”; and
- the title of the email should contain the phrase “gross data for difference metered private network”.

### **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](http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp).
- 3.3. Annex 1 contains charges to LV and HV Designated Properties.
- 3.4. Annex 2 contains the charges to Designated EHV Properties and charges applied to LDNOs with Designated EHV Properties embedded in networks within SP Distribution's area.
- 3.5. Annex 3 contains details of any preserved and additional charges that are valid at this time. Preserved charges are mapped to an appropriate charge and are closed to new customers.
- 3.6. Annex 4 contains the charges applied to LDNOs in respect of LV and HV Designated Properties embedded in networks within SP Distribution distribution services area.



## **4. Schedule of line loss factors**

### **Role of line loss factors in the supply of electricity**

- 4.1. Electricity entering or exiting the DNOs' networks is adjusted to take account of energy that is lost<sup>7</sup> as it is distributed through the network.
- 4.2. This adjustment is made to ensure that energy bought or sold by a user, from/to a customer, accounts for energy lost as part of distributing energy to and from the customer's premises.
- 4.3. DNOs are responsible for calculating the Line Loss Factors (LLFs) and providing these factors to Elexon. Elexon manage the Balancing and Settlement Code (BSC). The code covers the governance and rules for the balancing and settlement arrangements.
- 4.4. Annex 5 provides the LLFs which must be used to adjust the metering system volumes to take account of losses on the distribution network.

### **Calculation of line loss factors**

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

### **Line loss factor time periods**

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

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

**Line loss factor tables**

- 4.9. When using the LLF tables in Annex 5 reference should be made to the LLFC allocated to the MPAN to find the appropriate LLF.
- 4.10. The Elexon portal website, <https://www.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](http://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 unscaled 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

[http://www.scottishpower.com/pages/connections\\_use\\_of\\_system\\_and\\_metering\\_services.asp](http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp)

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 SP Distribution's 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, SP Distribution may revise its 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 table' spreadsheet on

[http://www.scottishpower.com/pages/connections\\_use\\_of\\_system\\_and\\_metering\\_services.asp](http://www.scottishpower.com/pages/connections_use_of_system_and_metering_services.asp). 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.
- 5.9. The DSM Agreement will be based upon a contractual commitment by the customer to materially reduce their MIC in certain time periods (which shall be determined by SP 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. EDCM customers wishing further details and/or wishing to enquire whether they can take advantage of a DSM Agreement should contact in the first instance:

The Distribution Policy Team  
Regulation & Commercial  
SP Distribution Plc  
Ochil House  
10 Technology Avenue  
Hamilton International Technology Park  
Blantyre  
G72 0HT  
Email: [commercial@sppowersystem.com](mailto:commercial@sppowersystem.com)

**6. Electricity distribution rebates**

- 6.1. SP Distribution has neither given nor announced any distribution use of system rebates to users in the 12 months preceding the date of publication of this revision of the statement.

**7. Accounting and administration services**

- 7.1. None.

**8. Charges for electrical plant provided ancillary to the grant of use of system**

- 8.1. None.

## 9. Glossary of terms

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

Term	Definition
All-the-way charge	A tariff applicable to an end user rather than an LDNO.
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 <a href="http://www.elexon.co.uk/ELEXON/Documents/trading_arrangements.pdf">www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf</a> .
CDCM	The common distribution charging methodology used for calculating charges to Designated Properties as required by standard licence condition 13A of the electricity distribution licence.
Central volume allocation (CVA)	As defined in the BSC.
Customer	A person to whom a user proposes to supply, or for the time being supplies, electricity through an exit point, or from whom, a user or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point;  Or  A person from whom a user purchases, or proposes to purchase, electricity, at an entry point (who may from time to time be supplied with electricity as a customer of that user (or another electricity supplier) through an exit point).
Designated Properties	As defined in standard condition 13A of the electricity distribution licence.
Distributed generator	A generator directly connected or embedded within the distribution system.
Distribution Connection and Use of System Agreement (DCUSA)	The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners (OFTOs) of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.
Distribution network operator (DNO)	An electricity distributor who operates one of the 14 distribution services areas and in whose electricity distribution licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution services area	The area specified by the authority within which each DNO must provide specified distribution services.

Term	Definition
Distribution system	<p>The system consisting (wholly or mainly) of:</p> <ul style="list-style-type: none"> <li>• electric lines owned or operated by an authorised distributor that is used for the distribution of electricity from grid supply points or generation sets or other entry points to the points of delivery to customers or users; or</li> <li>• any transmission licensee in its capacity as operator of that licensee's transmission system or the Great Britain (GB) transmission system</li> </ul> <p>and includes any remote transmission assets (owned by a transmission licensee within England and Wales) that are operated by that authorised distributor and any electrical plant, electricity meters, and metering equipment owned or operated by it in connection with the distribution of electricity, but does not include any part of the GB transmission system.</p>
Designated EHV Properties	As defined in standard condition 13B of the electricity distribution licence.
EDCM	The EHV distribution charging methodology used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the electricity distribution licence.
Electricity 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) (the Authority)	As established by the Utilities Act 2000.

<b>Term</b>	<b>Definition</b>
Grid supply point (GSP)	A metered connection between the National Grid Electricity Transmission (NGET) system and the licensee's distribution system at which electricity flows to or from the distribution system.
GSP group	A distinct electrical system that is supplied from one or more GSPs for which total supply into the GSP group can be determined for each half hour.
High voltage (HV)	Nominal voltages of at least 1kV and less than 22kV.
Host DNO	A distribution network operator that is responsible for a distribution services area as defined in standard conditions of the electricity distribution licence.
Intermediate LDNO	An embedded licenced distribution network operator that is responsible for a distribution system between a host DNO and another embedded distribution system.
Invalid settlement combination	A settlement combination that is not recognised as a valid combination in market domain data - see <a href="https://www.elexonportal.co.uk/MDDVIEWER">https://www.elexonportal.co.uk/MDDVIEWER</a> .
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.
Low voltage (LV)	Nominal voltages below 1kV.
Market domain data (MDD)	Market domain data is a central repository of reference data used by all users involved in settlement. It is essential to the operation of SVA trading arrangements.
Maximum export capacity (MEC)	The maximum export capacity of apparent power expressed in kVA that has been agreed can flow through the entry point to the distribution system from the customer's installation as specified in the connection agreement.



Term	Definition
Maximum import capacity (MIC)	The maximum import capacity of apparent power expressed in kVA that has been agreed can flow through the exit point from the distribution system to the customer's installation as specified in the connection agreement.
Measurement class	<p>A classification of metering systems which indicates how consumption is measured, i.e.:</p> <ul style="list-style-type: none"> <li>• non-half-hourly metering equipment (equivalent to measurement class A);</li> <li>• non-half-hourly unmetered supplies (equivalent to measurement class B);</li> <li>• half-hourly metering equipment at or above 100kW premises (equivalent to measurement class C);</li> <li>• half-hourly unmetered supplies (equivalent to measurement class D); and</li> <li>• half-hourly metering equipment below 100kw premises (equivalent to measurement class E).</li> </ul>
Metering point	The point at which electricity that is exported to or imported from the licensee's distribution system is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'metering points'.
Metering system	Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.
Metering point administration number (MPAN)	A number relating to a metering point under the MRA.
MRA	The Master Registration Agreement.
Meter timeswitch code (MTC)	MTCs are three digit codes allowing suppliers to identify the metering installed in customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter.
Nested LDNO	A distribution system operator that is responsible for a nested network.
Nested networks	This refers to a situation where there is more than one level of embedded network and therefore nested distribution systems between LDNOs (e.g. host DNO→intermediate LDNO→nested LDNO→customer).
Ofgem	Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Profile class (PC)	A categorisation applied to NHH MPANs and used in settlement to group customers with similar consumption patterns to enable the calculation of consumption profiles.

<b>Term</b>	<b>Definition</b>
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 TPRs.
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.
Supercustomer DUoS Report	A report of profiled data by settlement class providing counts of MPANs and units consumed.
Supplier	An organisation with a supply license which can register itself as being 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.
Use of system charges	Charges applicable to demand and generation connections which are connected to and utilise the distribution network.
User	Someone that has a use of system agreement with the DNO e.g. a supplier, generator or other DNO.
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 BSCP520 <sup>8</sup> .

<sup>8</sup> Balancing and Settlement Code Procedures are available from <http://www.elexon.co.uk/pages/bscps.aspx>

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

## SP Distribution - Effective from 1 April 2014 - 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		
Monday to Friday (Including Bank Holidays) All Year		08.00 - 16.30 19.30 - 22.30	
Monday to Friday (Including Bank Holidays) All Year			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 to May, and 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
All other times			
Notes	All the above times are in UK Clock time		

	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	100, 101, 110, 111, 160, 161	1	2.200			5.02				
Domestic Two Rate	114, 115, 118, 119, 120, 121, 162, 163	2	2.797	0.325		5.02				
Domestic Off Peak (related MPAN)	112, 113, 116, 117, 132, 133, 136, 137, 164, 165, 166	2	0.231							130, 134, 135
Small Non Domestic Unrestricted	201, 204	3	1.825			6.41				200, 202, 203, 205
Small Non Domestic Two Rate	221, 224, 260	4	2.522	0.350		6.41				220, 222
Small Non Domestic Off Peak (related MPAN)	225, 240, 241, 301, 302	4	0.749							223, 242, 243, 244, 245, 246
LV Medium Non-Domestic	400, 402	5-8	1.613	0.255		30.97				
LV Sub Medium Non-Domestic	404	5-8	1.204	0.170		0.00				
HV Medium Non-Domestic		5-8	0.908	0.039		310.69				401
LV HH Metered	500, 504	0	8.826	0.721	0.134	25.10	2.41	0.256	2.41	
LV Sub HH Metered	506, 507	0	7.715	0.469	0.016	8.86	4.43	0.197	4.43	
HV HH Metered	501, 505	0	5.787	0.352	0.012	134.12	4.84	0.143	4.84	
NHH UMS category A	900	8	1.423							904, 908, 909
NHH UMS category B	901	1	1.833							905
NHH UMS category C	902	1	2.902							906
NHH UMS category D	903	1	1.106							907
LV UMS (Pseudo HH Metered)	910	0	20.279	1.109	0.628					
LV Generation NHH	781, 782, 783, 784, 785	8	-0.730							
LV Sub Generation NHH	602	8	-0.645							
LV Generation Intermittent	603, 608	0	-0.730					0.155		
LV Generation Non-Intermittent	604, 607	0	-4.866	-0.539	-0.163			0.155		
LV Sub Generation Intermittent	609	0	-0.645					0.139		
LV Sub Generation Non-Intermittent	610	0	-4.455	-0.460	-0.128			0.139		
HV Generation Intermittent	611, 612	0	-0.380			97.94		0.115		
HV Generation Non-Intermittent	605, 606	0	-3.326	-0.202	-0.007	97.94		0.115		

## Annex 2 - Schedule of charges for use of the distribution system by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users)

### SP Distribution - Effective from 1 April 2014 - 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)
	801	1800060004220		MSID	MSID 8182	Minsca		496.37						
	802	1800060539962		683	1800060539971	Bankend Rig		189.68	3.85	3.85		4262.19	0.34	0.34
	803	1800060532708		684		Barlockhart Moor		167.94	1.84	1.84		7852.10	0.34	0.34
	804	1800060532726		685		Blantyre Muir		325.09	0.79	0.79		5122.73	0.34	0.34
	805	1800060587850		693	1800060587869	Hunterston WF		82.26	0.86	0.86		6506.82	0.34	0.34
	806	1800060532647		688	1800060532656	Middleton Farm		37.56	1.92	1.92		4744.60	0.34	0.34
	807	1800060532665		689	1800060532674	Neilston Community		119.04	1.83	1.83		5619.55	0.34	0.34
	808	1800053653870		681	1800053653880	Garlaff Landfill		133.22	0.78	0.78				
	809	1800054992968		629	1800054992977	Hagshaw Hill Extension		630.58	0.79	0.79		15924.39	0.34	0.34
	810			694		Pogbie WF		132.49	0.81	0.81		4114.05	0.34	0.34
	811	1800060328035		671	1800060328044	Muirhall		299.85	1.83	1.83		7196.43	0.34	0.34
	812	1800060372113		672	1800060372122	Burnfoot		1732.46	0.78	0.78		5368.78	0.34	0.34
	813	1800060532498		690	1800060532503	Westfield WF		53.30	1.70	1.70		6261.32	0.34	0.34
	814			691		Barmoor WF		167.34	1.91	1.91		16734.05	0.34	0.34
	815	1800060566984		692	1800060566993	Nutberry WF		570.17	1.89	1.89		10075.02	0.34	0.34
	816			695		Carcreegh WF		136.42	0.86	0.86		7344.00	0.34	0.34
	817	1800060567668				Magnox		325.00	0.83	0.83				
	818			700		West Browncastle WF		505.46	0.92	0.92		28612.77	0.34	0.34
	820	1800060289486		620	1800060289510	Craigengelt		132.67	1.25	1.25		18121.98	0.34	0.34
	821	1800054865132		621	1800054865141	Greenknowes		545.56	0.90	0.90		32733.90	0.34	0.34
	825	1800060159192		625	1800060159208	Aikengall		1406.88				32602.69	0.34	0.34
	826	1800053646251		626	1800053646260	Hagshaw Hill		49.01	1.92	1.92				
	827	1800053646190		627	1800053646206	Gallow Rig		170.93	1.84	1.84				
	828	1800053646172		628	1800053646181	Polwhart Rig		203.32	1.82	1.82				
	829	1800054738267		624	1800054738276	Greendykeside		46.64	1.90	1.90		3273.09	0.34	0.34
	830	1800053647237		630	1800053647246	Dun Law		42.62	1.90	1.90				
	831	1800053647194		631	1800053647200	EPR Scotland Ltd		268.38	2.86	2.86				
	832	1800053648027		632	1800053648036	Bowbeat (Emly Bank)		173.91	1.84	1.84				
	833	1800053648045		633	1800053648054	Bowbeat (Roughsidehill)		121.39	1.86	1.86				
	834	1800053647380		634	1800053647399	Harehill		120.97	1.85	1.85				
	835	1800053647618		635	1800053647627	Shanks & McEwan 3&4		143.97	2.07	2.07				
	836	1800053647636		636	1800053647645	Shanks & McEwan 5		26.62	1.83	1.83				
	883	1800053647636		636	1800053647751	Shanks & McEwan 6		76.98	1.81	1.81				
	837	1800053653843		637	1800053653852	Crystal Rig		620.76	0.78	0.78				
	838	18000536944167		638	1800053694440	Haupland Muir (Ardrossan)		8.92	0.88	0.88		187.25	0.34	0.34

839	1800053950949		639	1800053950958	Wetherhill		1062.76														
840	1800053434271		640	1800053883993	Artfield WF		890.36														
841	1800054152982		641	1800054152991	Wardlaw Wood		102.80	1.89	1.89												
842	1800054198365		642	1800054198374	Earlsburn		772.82														
843	1800054244570		643	1800054244598	Blackhill		1527.69											19898.42	0.34	0.34	
844	1800054451603		MSID	MSID 8183	Dalswinton		572.38	0.83	0.83												
845	1800054498470		645	1800054498480	Steven's Croft Biomass		5580.82	0.87	0.87												
850	1800060251872		650	1800060251881	Longpark		822.04											18002.87	0.34	0.34	
851	1800035140431				BOC		6564.28	2.22	2.22												
852	1800060642702		696	1800060642711	Calder Water WF		193.17	0.90	0.90									24895.41	0.34	0.34	
853	1800035234188				Babcock Thom		21783.78	2.74	2.74												
854	1800035261359		654	1800053946507	Lafarge UK		13244.83	3.10	3.10												
855	1800060241304		655	1800060241313	Pateshill		19.93	1.89	1.89									1116.21	0.34	0.34	
856	1800035239460				Clydeport		28101.35	1.60	1.60												
857	1800035313389				Freescale		9375.45	1.39	1.39												
858	1800035327257				Tesco		829.40	1.86	1.86												
859	1800035320127				GlaxoSmithKline		30606.69	2.25	2.25												
861	1800035324780				Weir Pumps		1496.08	3.73	3.73												
862	1800035317453				Dupont (UK) Ltd		78696.79	2.36	2.36												
863	1800060207438		663	1800060207447	North Rhins		259.99	1.83	1.83									7813.82	0.34	0.34	
864			698		Tod Hills Windfarm		69.16	1.82	1.82									7216.25	0.34	0.34	
866	1800051523646				Calachem	1.332	8655.28	7.79	7.79												
867	1800035235436				Norbord		17499.73	1.42	1.42												
873	1800060450481		673	1800060450490	Millour Hill		176.67	0.79	0.79									13078.02	0.34	0.34	
874	1800060441380		674	1800060441399	Glenkerie		336.11	1.90	1.90									13020.34	0.34	0.34	
875	1800060450524		675	1800060450533	Kelburn (A)		155.01	1.86	1.86									7743.78	0.34	0.34	
876	1800060450542		676	1800060450551	Kelburn (B)		155.01	1.85	1.85									7743.78	0.34	0.34	
877	1800060450506		677	1800060450515	Little Raith		170.14	0.87	0.87									4678.93	0.34	0.34	
878	1800060445640		678	1800060445659	Drone Hill		470.29	0.85	0.85									23065.04	0.34	0.34	
880			701		Earlseat WF		68.33	1.92	1.92									10627.08	0.34	0.34	
884			679		Ardoch & Over Enoch WF		80.73	0.82	0.82									9569.34	0.34	0.34	
885			697	1800060630637	GlaxoSmithKline WF		21.31	1.92	1.92									909.60	0.34	0.34	
886			686		Sneddon Law WF		427.29	0.89	0.89									25631.56	0.34	0.34	
MSID	MSID 8334		MSID	MSID 8334	Markinch		7989.76	1.57	1.57									-1.094	14304.25	0.34	0.34
MSID	MSID 8083				Dumbarton		0.00	3.25	3.25												
MSID	MSID 8085				Stirling Road		0.00	1.82	1.82												
310	1800036579036				Magco		379.00	6.18	6.18												
311	1800035324497				Stirling University	0.440	379.00	6.34	6.34												
312	1800035324530				Glenochil Distillery		379.00	5.41	5.41												
313	1800053648310				Longannet Power Station		379.00	14.27	14.27												
314	1800035327674				Cameron Ironworks	0.790	379.00	3.94	3.94												
315	1800035313398				Shin-Etsu		14847.42	3.02	3.02												
316	1800035344100				United Biscuits		379.00	5.24	5.24												
317	1800035337724				Scottish Enterprise		9893.05	13.42	13.42												
318	1800035337584				Balfours		379.00	1.80	1.80												
319	1800035331634				NB Distillery		379.00	3.18	3.18												
320	1800035340220				Finnart BP		16216.11	2.10	2.10												
321	1800035346589				Texas Instruments		757.99	4.81	4.81												
322	1800035346817				Glasgow Airport		379.00	7.88	7.88												
323	1800035326848				BP Dalmeny		11291.82	1.93	1.93												
324	1800035334227				Edinburgh Dock North		3612.12	1.58	1.58												
325	1800035346551				IBM		379.00	2.97	2.97												
326	1800053646215		755	1800053646224	Bonnington Power Station		3.41	4.11	4.11									-2.301	375.58	0.34	0.34
328	1800060586917		750	1800060586926	Cathkin Braes Wind Farm		337.72	1.45	1.45										5332.55	0.34	0.34
329	1800060397697				New Glasgow South Hospital		8977.46	2.07	2.07										0.00	0.00	0.00
330	1800060614714		752	1800060614741	Torrance WF		73.44	1.49	1.49										6268.26	0.34	0.34
331	1800060613543		754	1800060613552	Scottish Enterprise (Samsung WTTFF)		120.02	1.49	1.49										4422.60	0.34	0.34
824	1800060674253		705	1800060674262	Muirhall Extention WF		48.00	1.90	1.90										2860.44	0.34	0.34
819			699		Viridor (Waste energy)		614.91	1.94	1.94										3684.33	0.34	0.34
882			687		Burnhead Bathgate WF		14.03	1.93	1.93										3792.36	0.34	0.34
881			702		Dungavel WF		446.16	0.96	0.96										26680.22	0.34	0.34
822			703		Ewe Hill Dumfries WF		416.11	1.95	1.95										18772.61	0.34	0.34
823			704		Langhope Rig (D) WF		22.74	1.72	1.72										1242.80	0.34	0.34

887		706	Polmaddie (Waste energy)	842.32	2.17	2.17	-0.186	6836.71	0.34	0.34
332		756	Torrance Windfarm Extension	111.40	1.47	1.47		6338.58	0.34	0.34
879		680	Andershaw WF	41.97	1.96	1.96		27125.96	0.34	0.34
327			SGB Lurgie	5056.02	4.92	4.92				

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

SP Distribution - Effective from 1 April 2014 - 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 Off Peak (related MPAN)	130, 134, 135	2	0.231						
Small Non Domestic Unrestricted	200, 202, 203, 205	3	1.825			6.41			
Small Non Domestic Two Rate	220, 222	4	2.522	0.350		6.41			
Small Non Domestic Off Peak (related MPAN)	223, 242, 243, 244, 245, 246	4	0.749						
HV Medium Non-Domestic	401	5-8	0.908	0.039		310.69			
Notes:	<p>Unit time periods are as specified in the SSC.</p> <p>SP Distribution 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>								

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

SP Distribution - Effective from 1 April 2014 - Indicative LDNO tariffs			
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		
Monday to Friday (Including Bank Holidays) All Year		08.00 - 16.30 19.30 - 22.30	
Monday to Friday (Including Bank Holidays) All Year			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 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
All other times			
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	1.438			3.28			
LDNO LV: Domestic Two Rate		2	1.828	0.212		3.28			
LDNO LV: Domestic Off Peak (related MPAN)		2	0.151						
LDNO LV: Small Non Domestic Unrestricted		3	1.193			4.19			
LDNO LV: Small Non Domestic Two Rate		4	1.648	0.229		4.19			
LDNO LV: Small Non Domestic Off Peak (related MPAN)		4	0.490						
LDNO LV: LV Medium Non-Domestic		5-8	1.054	0.167		20.24			
LDNO LV: LV HH Metered		0	5.769	0.471	0.088	16.41	1.58	0.167	1.58
LDNO LV: NHH UMS category A		8	0.930						
LDNO LV: NHH UMS category B		1	1.198						
LDNO LV: NHH UMS category C		1	1.897						
LDNO LV: NHH UMS category D		1	0.723						
LDNO LV: LV UMS (Pseudo HH Metered)		0	13.254	0.725	0.410				
LDNO LV: LV Generation NHH		8	-0.730						
LDNO LV: LV Generation Intermittent		0	-0.730					0.155	
LDNO LV: LV Generation Non-Intermittent		0	-4.866	-0.539	-0.163			0.155	
LDNO HV: Domestic Unrestricted		1	0.672			1.53			
LDNO HV: Domestic Two Rate		2	0.855	0.099		1.53			
LDNO HV: Domestic Off Peak (related MPAN)		2	0.071						
LDNO HV: Small Non Domestic Unrestricted		3	0.558			1.96			
LDNO HV: Small Non Domestic Two Rate		4	0.771	0.107		1.96			
LDNO HV: Small Non Domestic Off Peak (related MPAN)		4	0.229						
LDNO HV: LV Medium Non-Domestic		5-8	0.493	0.078		9.46			
LDNO HV: LV HH Metered		0	2.697	0.220	0.041	7.67	0.74	0.078	0.74
LDNO HV: LV Sub HH Metered		0	3.802	0.231	0.008	4.37	2.18	0.097	2.18
LDNO HV: HV HH Metered		0	3.259	0.198	0.007	75.53	2.73	0.081	2.73
LDNO HV: NHH UMS category A		8	0.435						
LDNO HV: NHH UMS category B		1	0.560						
LDNO HV: NHH UMS category C		1	0.887						
LDNO HV: NHH UMS category D		1	0.338						
LDNO HV: LV UMS (Pseudo HH Metered)		0	6.197	0.339	0.192				
LDNO HV: LV Generation NHH		8	-0.730						
LDNO HV: LV Sub Generation NHH		8	-0.645						
LDNO HV: LV Generation Intermittent		0	-0.730					0.155	
LDNO HV: LV Generation Non-Intermittent		0	-4.866	-0.539	-0.163			0.155	
LDNO HV: LV Sub Generation Intermittent		0	-0.645					0.139	
LDNO HV: LV Sub Generation Non-Intermittent		0	-4.455	-0.460	-0.128			0.139	
LDNO HV: HV Generation Intermittent		0	-0.380					0.115	
LDNO HV: HV Generation Non-Intermittent		0	-3.326	-0.202	-0.007			0.115	



LDNO HVplus: Domestic Unrestricted		1	0.529			1.21			
LDNO HVplus: Domestic Two Rate		2	0.673	0.078		1.21			
LDNO HVplus: Domestic Off Peak (related MPAN)		2	0.056						
LDNO HVplus: Small Non Domestic Unrestricted		3	0.439			1.54			
LDNO HVplus: Small Non Domestic Two Rate		4	0.606	0.084		1.54			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		4	0.180						
LDNO HVplus: LV Medium Non-Domestic		5-8	0.388	0.061		7.45			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	0.458	0.065		0.00			
LDNO HVplus: HV Medium Non-Domestic		5-8	0.392	0.017		134.13			
LDNO HVplus: LV HH Metered		0	2.122	0.173	0.032	6.04	0.58	0.062	0.58
LDNO HVplus: LV Sub HH Metered		0	2.935	0.178	0.006	3.37	1.69	0.075	1.69
LDNO HVplus: HV HH Metered		0	2.498	0.152	0.005	57.90	2.09	0.062	2.09
LDNO HVplus: NHH UMS category A		8	0.342						
LDNO HVplus: NHH UMS category B		1	0.441						
LDNO HVplus: NHH UMS category C		1	0.698						
LDNO HVplus: NHH UMS category D		1	0.266						
LDNO HVplus: LV UMS (Pseudo HH Metered)		0	4.877	0.267	0.151				
LDNO HVplus: LV Generation NHH		8	-0.278			0.00			
LDNO HVplus: LV Sub Generation NHH		8	-0.278			0.00			
LDNO HVplus: LV Generation Intermittent		0	-0.278			0.00		0.059	
LDNO HVplus: LV Generation Non-Intermittent		0	-1.851	-0.205	-0.062	0.00		0.059	
LDNO HVplus: LV Sub Generation Intermittent		0	-0.278			0.00		0.060	
LDNO HVplus: LV Sub Generation Non-Intermittent		0	-1.923	-0.199	-0.055	0.00		0.060	
LDNO HVplus: HV Generation Intermittent		0	-0.380			97.94		0.115	
LDNO HVplus: HV Generation Non-Intermittent		0	-3.326	-0.202	-0.007	97.94		0.115	
LDNO EHV: Domestic Unrestricted		1	0.244			0.56			
LDNO EHV: Domestic Two Rate		2	0.310	0.036		0.56			
LDNO EHV: Domestic Off Peak (related MPAN)		2	0.026						
LDNO EHV: Small Non Domestic Unrestricted		3	0.202			0.71			
LDNO EHV: Small Non Domestic Two Rate		4	0.279	0.039		0.71			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)		4	0.083						
LDNO EHV: LV Medium Non-Domestic		5-8	0.179	0.028		3.43			
LDNO EHV: LV Sub Medium Non-Domestic		5-8	0.211	0.030		0.00			
LDNO EHV: HV Medium Non-Domestic		5-8	0.181	0.008		61.79			
LDNO EHV: LV HH Metered		0	0.978	0.080	0.015	2.78	0.27	0.028	0.27
LDNO EHV: LV Sub HH Metered		0	1.352	0.082	0.003	1.55	0.78	0.035	0.78
LDNO EHV: HV HH Metered		0	1.151	0.070	0.002	26.67	0.96	0.028	0.96
LDNO EHV: NHH UMS category A		8	0.158						
LDNO EHV: NHH UMS category B		1	0.203						
LDNO EHV: NHH UMS category C		1	0.321						
LDNO EHV: NHH UMS category D		1	0.123						
LDNO EHV: LV UMS (Pseudo HH Metered)		0	2.247	0.123	0.070				
LDNO EHV: LV Generation NHH		8	-0.128			0.00			
LDNO EHV: LV Sub Generation NHH		8	-0.128			0.00			
LDNO EHV: LV Generation Intermittent		0	-0.128			0.00		0.027	
LDNO EHV: LV Generation Non-Intermittent		0	-0.853	-0.094	-0.029	0.00		0.027	
LDNO EHV: LV Sub Generation Intermittent		0	-0.128			0.00		0.028	
LDNO EHV: LV Sub Generation Non-Intermittent		0	-0.886	-0.091	-0.025	0.00		0.028	
LDNO EHV: HV Generation Intermittent		0	-0.175			45.12		0.053	
LDNO EHV: HV Generation Non-Intermittent		0	-1.532	-0.093	-0.003	45.12		0.053	
LDNO 132kV/EHV: Domestic Unrestricted		1	0.000			0.00			
LDNO 132kV/EHV: Domestic Two Rate		2	0.000	0.000		0.00			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		2	0.000						
LDNO 132kV/EHV: Small Non Domestic Unrestricted		3	0.000			0.00			
LDNO 132kV/EHV: Small Non Domestic Two Rate		4	0.000	0.000		0.00			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		4	0.000						
LDNO 132kV/EHV: LV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.000	0.000		0.00			

LDNO 132kV/EHV: LV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV/EHV: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV/EHV: HV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV/EHV: NHH UMS category A		8	0.000						
LDNO 132kV/EHV: NHH UMS category B		1	0.000						
LDNO 132kV/EHV: NHH UMS category C		1	0.000						
LDNO 132kV/EHV: NHH UMS category D		1	0.000						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)		0	0.000	0.000	0.000				
LDNO 132kV/EHV: LV Generation NHH		8	0.000			0.00			
LDNO 132kV/EHV: LV Sub Generation NHH		8	0.000			0.00			
LDNO 132kV/EHV: LV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV/EHV: LV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kV/EHV: LV Sub Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kV/EHV: HV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV/EHV: HV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kV: Domestic Unrestricted		1	0.000			0.00			
LDNO 132kV: Domestic Two Rate		2	0.000	0.000		0.00			
LDNO 132kV: Domestic Off Peak (related MPAN)		2	0.000						
LDNO 132kV: Small Non Domestic Unrestricted		3	0.000			0.00			
LDNO 132kV: Small Non Domestic Two Rate		4	0.000	0.000		0.00			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		4	0.000						
LDNO 132kV: LV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kV: LV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV: HV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kV: NHH UMS category A		8	0.000						
LDNO 132kV: NHH UMS category B		1	0.000						
LDNO 132kV: NHH UMS category C		1	0.000						
LDNO 132kV: NHH UMS category D		1	0.000						
LDNO 132kV: LV UMS (Pseudo HH Metered)		0	0.000	0.000	0.000				
LDNO 132kV: LV Generation NHH		8	0.000			0.00			
LDNO 132kV: LV Sub Generation NHH		8	0.000			0.00			
LDNO 132kV: LV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV: LV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kV: LV Sub Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV: LV Sub Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kV: HV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kV: HV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
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 HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: HV HH Metered		0	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	0.000	0.000	0.000				
LDNO 0000: LV Generation NHH		8	0.000			0.00			
LDNO 0000: LV Sub Generation NHH		8	0.000			0.00			
LDNO 0000: LV Generation Intermittent		0	0.000			0.00		0.000	

LDNO 132kW/EHV: LV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW/EHV: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW/EHV: HV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW/EHV: NHH UMS category A		8	0.000						
LDNO 132kW/EHV: NHH UMS category B		1	0.000						
LDNO 132kW/EHV: NHH UMS category C		1	0.000						
LDNO 132kW/EHV: NHH UMS category D		1	0.000						
LDNO 132kW/EHV: LV UMS (Pseudo HH Metered)		0	0.000	0.000	0.000				
LDNO 132kW/EHV: LV Generation NHH		8	0.000			0.00			
LDNO 132kW/EHV: LV Sub Generation NHH		8	0.000			0.00			
LDNO 132kW/EHV: LV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW/EHV: LV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kW/EHV: LV Sub Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW/EHV: LV Sub Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kW/EHV: HV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW/EHV: HV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kW: Domestic Unrestricted		1	0.000			0.00			
LDNO 132kW: Domestic Two Rate		2	0.000	0.000		0.00			
LDNO 132kW: Domestic Off Peak (related MPAN)		2	0.000						
LDNO 132kW: Small Non Domestic Unrestricted		3	0.000			0.00			
LDNO 132kW: Small Non Domestic Two Rate		4	0.000	0.000		0.00			
LDNO 132kW: Small Non Domestic Off Peak (related MPAN)		4	0.000						
LDNO 132kW: LV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kW: LV Sub Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kW: HV Medium Non-Domestic		5-8	0.000	0.000		0.00			
LDNO 132kW: LV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW: HV HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 132kW: NHH UMS category A		8	0.000						
LDNO 132kW: NHH UMS category B		1	0.000						
LDNO 132kW: NHH UMS category C		1	0.000						
LDNO 132kW: NHH UMS category D		1	0.000						
LDNO 132kW: LV UMS (Pseudo HH Metered)		0	0.000	0.000	0.000				
LDNO 132kW: LV Generation NHH		8	0.000			0.00			
LDNO 132kW: LV Sub Generation NHH		8	0.000			0.00			
LDNO 132kW: LV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW: LV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kW: LV Sub Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW: LV Sub Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 132kW: HV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 132kW: HV Generation Non-Intermittent		0	0.000	0.000	0.000	0.00		0.000	
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 HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: LV Sub HH Metered		0	0.000	0.000	0.000	0.00	0.00	0.000	
LDNO 0000: HV HH Metered		0	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	0.000	0.000	0.000				
LDNO 0000: LV Generation NHH		8	0.000			0.00			
LDNO 0000: LV Sub Generation NHH		8	0.000			0.00			
LDNO 0000: LV Generation Intermittent		0	0.000			0.00		0.000	

LDNO 0000: LV Generation Non-intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 0000: LV Sub Generation Intermittent		0	0.000			0.00		0.000	
LDNO 0000: LV Sub Generation Non-intermittent		0	0.000	0.000	0.000	0.00		0.000	
LDNO 0000: HV Generation Intermittent		0	0.000			0.00		0.000	
LDNO 0000: HV Generation Non-intermittent		0	0.000	0.000	0.000	0.00		0.000	

## Annex 5 - Schedule of line loss factors

SP Distribution - Effective from 1 April 2014 - Indicative LLF Time Periods					
Time periods	Period 1	Period 2	Period 3	Period 4	Associated LLFC
	(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				
<b>Generic demand and generation LLFs</b>					
<b>Metered voltage, respective periods and associated LLFCs</b>					
Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Low Voltage NHH	1.074	1.085	1.096	1.108	100,101,110,111,112,113,14,115,116,117,118,119,120,121,130,132,133,134,135,136,137,160,161,162,163,164,165,166,200,201,202,203,204,205,220,221,222,223,224,225,240,241,242,243,244,245,246,260,400,402,404,602,781,782,783,784,785,900,901,902,903,910
Low Voltage HH	1.073	1.084	1.095	1.108	500,504,506,507,603,604,607,608,609,610
High Voltage Network	1.023	1.026	1.029	1.032	301,302,401,501,505,605,606,611,612
High Voltage Substation	1.023	1.026	1.029	1.032	310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,750,751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,862,866,867
33kV Generic (demand)	1.003	1.004	1.005	1.005	
33kV Generic (generation)	1.000	1.000	1.000	1.000	
132kV Generic (demand)					
132kV Generic (generation)					

EHV site specific LLFs					
Demand					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Minsca	1.000	1.000	1.000	1.000	801
Bankend Rig	1.003	1.004	1.005	1.005	802
Barlockhart Moor	1.003	1.004	1.005	1.005	803
Blantyre Muir	1.003	1.004	1.005	1.005	804
Hunterston WF	1.003	1.004	1.005	1.005	805
Middleton Farm	1.003	1.004	1.005	1.005	806
Neilston Community	1.003	1.004	1.005	1.005	807
Hagshaw Hill Extension	1.000	1.000	1.000	1.000	809
Pogbie	1.003	1.004	1.005	1.005	810
Muirhall	1.000	1.000	1.000	1.000	811
Burnfoot	1.000	1.000	1.000	1.000	812
Westfield WF	1.003	1.004	1.005	1.005	813
Barmoor WF	1.003	1.004	1.005	1.005	814
Nutberry WF	1.003	1.004	1.005	1.005	815
Carcreegh WF	1.003	1.004	1.005	1.005	816
Magnox	1.003	1.004	1.005	1.005	817
West Browncastle WF	1.003	1.004	1.005	1.005	818
Viridor	1.003	1.004	1.005	1.005	819
Craigengelt	1.000	1.000	1.000	1.000	820
Greenknowes	1.000	1.000	1.000	1.000	821
Ewe Hill	1.003	1.004	1.005	1.005	822
Langhope Rig WF	1.003	1.004	1.005	1.005	823
Muirhall Ext WF	1.003	1.004	1.005	1.005	824
Aikengall	1.000	1.000	1.000	1.000	825
Hagshaw Hill	1.012	1.017	1.020	1.023	826
Gallow Rig	1.036	1.043	1.048	1.053	827
Polwhat Rig	1.036	1.043	1.048	1.053	828
Greendykeside	1.001	1.001	1.001	1.001	829
Dun Law	1.006	1.008	1.010	1.011	830
EPR Scotland Ltd	1.000	1.000	1.000	1.000	831
Bowbeat (Emly Bank)	1.025	1.036	1.043	1.051	832
Bowbeat (Roughsidehill)	1.025	1.035	1.043	1.050	833
Harehill	1.036	1.043	1.048	1.053	834
Shanks & McEwan 3&4	1.001	1.001	1.001	1.001	835
Shanks & McEwan 5	1.001	1.001	1.001	1.001	836
Crystal Rig	1.000	1.000	1.000	1.000	837
Hauptland Muir (Ardrossan)	1.000	1.000	1.000	1.000	838
Wetherhill	1.028	1.040	1.048	1.055	839
Artfield WF	1.000	1.000	1.000	1.000	840
Wardlaw Wood	1.021	1.029	1.035	1.040	841
Earlsburn	1.000	1.000	1.000	1.001	842
Blackhill	1.037	1.054	1.066	1.077	843
Dalswinton	1.000	1.000	1.000	1.000	844
Steven's Croft Biomass	1.000	1.001	1.001	1.002	845
Longpark	1.000	1.000	1.000	1.000	850
BOC	1.002	1.002	1.002	1.002	851
Calder WF	1.003	1.004	1.005	1.005	852
Babcock Thorn	1.002	1.002	1.003	1.003	853
Lafarge UK	1.036	1.004	1.004	1.004	854
Pateshill	1.000	1.000	1.000	1.000	855

Clydeport	1.000	1.000	1.000	1.000	856
Freescale	1.000	1.000	1.000	1.000	857
Tesco	1.000	1.000	1.000	1.000	858
GlaxoSmithKline	1.010	1.011	1.011	1.011	859
Weir Pumps	1.003	1.004	1.005	1.005	861
Dupont (UK) Ltd	1.023	1.026	1.029	1.032	862
North Rhins	1.000	1.000	1.000	1.000	863
Tod Hills WF	1.003	1.004	1.005	1.005	864
Calachem	1.023	1.026	1.029	1.032	866
Norbord	1.023	1.026	1.029	1.032	867
Millour Hill	1.003	1.004	1.005	1.005	873
Glenkerie	1.003	1.004	1.005	1.005	874
Kelburn (A)	1.003	1.004	1.005	1.005	875
Kelburn (B)	1.003	1.004	1.005	1.005	876
Little Raith	1.003	1.004	1.005	1.005	877
Drone Hill	1.003	1.004	1.005	1.005	878
Andershaw WF	1.003	1.004	1.005	1.005	879
Earlseat WF	1.003	1.004	1.005	1.005	880
Dungavel WF	1.003	1.004	1.005	1.005	881
Burnhead Bathgate WF	1.003	1.004	1.005	1.005	882
Shanks & McEwan 6	1.001	1.001	1.001	1.001	883
Ardoch & Over Enoch WF	1.003	1.004	1.005	1.005	884
GlaxoSmithKline WF	1.003	1.004	1.005	1.005	885
Sneddon Law WF	1.003	1.004	1.005	1.005	886
Palmaddie	1.003	1.004	1.005	1.005	887
Dumbarton	1.000	1.000	1.000	1.000	MSID 8083
Stirling Road	1.000	1.000	1.000	1.000	MSID 8085
Markinch	1.000	1.000	1.000	1.000	MSID 8334

EHV sites specific LLFs					
Generation					
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Craigengelt	0.998	0.998	0.997	0.996	620
Greenknowes	0.991	0.991	0.989	0.988	621
Greendykeside	0.999	0.999	0.998	0.999	624
Aikengall	0.996	0.996	0.996	0.996	625
Hagshaw Hill	1.001	1.005	1.006	1.008	626
Gallow Rig	1.020	1.026	1.027	1.029	627
Polwhat Rig	1.020	1.026	1.026	1.027	628
Hagshaw Hill Extension	0.995	0.995	0.994	0.993	629
Dun Law	0.984	0.984	0.985	0.987	630
EPR Scotland Ltd	0.998	0.998	0.998	0.998	631
Bowbeat (Emly Bank)	1.007	1.016	1.019	1.024	632
Bowbeat (Roughsidehill)	1.004	1.013	1.016	1.021	633
Harehill	1.015	1.019	1.026	1.031	634
Shanks & McEwan 3&4	0.996	0.996	0.996	0.996	635
Shanks & McEwan 5	0.997	0.997	0.996	0.996	636
Crystal Rig	1.000	1.000	1.000	1.000	637
Hauptland Muir (Ardrossan)	0.995	0.995	0.994	0.994	638
Wetherhill	1.000	1.010	1.010	1.013	639
Artfield WF	1.000	1.000	1.000	1.000	640
Wardlaw Wood	0.997	1.007	1.008	1.013	641
Earlsburn	0.989	0.990	0.987	0.986	642
Blackhill	1.010	1.024	1.027	1.037	643
Steven's Croft Biomass	0.984	0.984	0.987	0.987	645
Longpark	1.000	1.000	1.000	1.000	650
Lafarge UK	1.036	1.004	1.004	1.004	654
Pateshill	1.000	1.000	1.000	1.000	655
North Rhins	1.000	1.000	1.000	1.000	663
Muirhall	0.990	0.990	0.988	0.988	671
Burnfoot	0.992	0.993	0.991	0.991	672
Millour Hill	1.000	1.000	1.000	1.000	673
Glenkerie	1.000	1.000	1.000	1.000	674
Kelburn (A)	1.000	1.000	1.000	1.000	675
Kelburn (B)	1.000	1.000	1.000	1.000	676
Little Raith	1.000	1.000	1.000	1.000	677
Drone Hill	1.000	1.000	1.000	1.000	678
Ardoch & Over Enoch WF	1.000	1.000	1.000	1.000	679
Andershaw WF	1.000	1.000	1.000	1.000	680
Garlaff Landfill	1.000	1.000	1.000	1.000	681
Bankend Rig	1.000	1.000	1.000	1.000	683
Barlockhart Moor	1.000	1.000	1.000	1.000	684
Blantyre Muir	1.000	1.000	1.000	1.000	685
Sneddon Law WF	1.000	1.000	1.000	1.000	686
Burnhead Bathgate WF	1.000	1.000	1.000	1.000	687
Middleton Farm	1.000	1.000	1.000	1.000	688
Neilston Community	1.000	1.000	1.000	1.000	689
Westfield WF	1.000	1.000	1.000	1.000	690
Barmoor WF	1.000	1.000	1.000	1.000	691



Nutberry Windfarm	1.000	1.000	1.000	1.000	692
Hunterston WF	1.000	1.000	1.000	1.000	693
Pogbie WF	1.000	1.000	1.000	1.000	694
Carcreegh WF	1.000	1.000	1.000	1.000	695
Calder WF	1.000	1.000	1.000	1.000	696
Glaxosmithkline WF	1.000	1.000	1.000	1.000	697
Tod Hills WF	1.000	1.000	1.000	1.000	698
Viridor	1.000	1.000	1.000	1.000	699
West Browncastle WF	1.000	1.000	1.000	1.000	700
Earlseat WF	1.000	1.000	1.000	1.000	701
Dungavel WF	1.000	1.000	1.000	1.000	702
Ewe Hill	1.000	1.000	1.000	1.000	703
Langhope Rig WF	1.000	1.000	1.000	1.000	704
Muirhall Ext	1.000	1.000	1.000	1.000	705
Polmaddie	1.000	1.000	1.000	1.000	706
Minsca	0.991	0.990	0.990	0.990	MSID 8182
Dalswinton	0.997	0.997	0.996	0.996	MSID 8183
Markinch	1.000	1.000	1.000	1.000	MSID 8334

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