

# **SP DISTRIBUTION PLC**

# **Use of System Charging Statement**

# **NOTICE OF CHARGES**

Effective from 1st April 2018

Version 0.5

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 charges<sup>1</sup> for the use of our Distribution System and to provide the schedule of adjustment factors<sup>2</sup> 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 premises 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:

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

<sup>&</sup>lt;sup>2</sup> 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: <a href="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</a>.

# **Contact details**

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

SP Energy Networks, Network Planning & Regulation Prenton Way Birkenhead Merseyside CH43 3ET <u>commercial@spenergynetworks.co.uk</u> Telephone: 0141 614 5779 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: <u>capacityq@spenergynetworks.co.uk</u>

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, Half Hourly (HH) metered premises with whole current metering systems and all domestic premises. The 'Site-specific' approach is used for non-domestic Current Transformer (CT) metered premises or pseudo HH unmetered premises.
- 2.3. Typically, NHH metered or HH metered premises with whole current Metering Systems are domestic and small businesses; Premises with non-domestic CT Metering Systems are generally larger businesses or industrial sites; and unmetered premises are normally streetlights.

# Supercustomer billing and payment

- 2.4. Supercustomer billing and payment applies to Meter Point Administration Number (MPAN)s 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 the MPAN, and the units consumed within the time periods specified in this statement. These time periods may not necessarily be the same as those indicated by the Time Pattern Regimes (TPRs) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' on page 14 if you believe the allocated LLFC or tariff is incorrect.

#### Supercustomer charges

2.7. Supercustomer charges include 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 apply depending on the type of tariff for which the MPAN is registered.
- 2.8. Users who supply electricity to a Customer whose MPAN is registered as Measurement Class A, B, 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 2001<sup>3</sup> and where operated in accordance with Balancing and Settlement Code (BSC) procedure 520<sup>4</sup>.
- 2.11. Measurement Class F charges apply to Exit/Entry points at domestic premises where HH metering is used for Settlement.
- 2.12. Measurement Class G charges apply to Exit/Entry points at non-domestic premises with whole current metering systems where HH metering is used for Settlement.
- 2.13. Identification of the appropriate charge can be made by cross-reference to the LLFC.
- 2.14. 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).
- 2.15. 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 SSC/TPR combination.

<sup>&</sup>lt;sup>3</sup> The Electricity (Unmetered Supply) Regulations 2001 available from <u>http://www.legislation.gov.uk/uksi/2001/3263/made</u> <sup>4</sup> Balancing and Settlement Code Procedures on unmetered supplies are available from <u>https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/</u>

- 2.16. 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 spreadsheet that accompanies this statement<sup>5</sup>.
- 2.17. 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.
- 2.18. 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

- 2.19. Site-specific billing and payment applies to Measurement Class C, D and E Metering Systems. The site-specific billing and payment approach to Use of System (UoS) billing makes use of HH metering data at premises level received through Settlement.
- 2.20. 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.
- 2.21. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the Metering System Identifier (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.22. All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' on page 14 if you believe the allocated LLFC or tariff is incorrect. Where an incorrectly applied LLFC is identified, we may at our sole discretion apply the correct LLFC and/or charges.

#### Site-specific billed charges

- 2.23. Site-specific billed charges may include the following components:
  - a fixed charge, pence/MPAN/day or pence/MSID/day;

 $<sup>^{\</sup>scriptscriptstyle 5}\,{\rm SPD}$  - Schedule of charges and other tables.xlsx

- 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.
- 2.24. Users who wish to supply electricity to Customers whose Metering System is Measurement Class C, D or E or is settled via CVA will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.
- 2.25. Measurement Class C, E or CVA charges apply to Exit/Entry Points where HH metering data is used for Settlement purposes for non-domestic sites that have CT metering.
- 2.26. 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>6</sup> and where operated in accordance with BSC procedure 520<sup>7</sup>.
- 2.27. Fixed charges are generally levied on a pence per MPAN/MSID per day basis.
- 2.28. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.29. LV and HV Designated Properties which utilise a combination of Intermittent or Non-Intermittent generation technologies metered through a single MPAN/MSID will be allocated the Non-Intermittent generation tariff unless the combined installed capacity, as evidenced in ratings contained in the Connection Agreement, for Intermittent generation technologies is higher than the combined installed capacity for Non-Intermittent generation technologies, in which case the Intermittent generation tariff will be allocated.

<sup>&</sup>lt;sup>6</sup> The Electricity (Unmetered Supply) Regulations 2001 available from <u>http://www.legislation.gov.uk/uksi/2001/3263/made</u>
<sup>7</sup> Balancing and Settlement Code Procedures on unmetered supplies and available from <u>https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/</u>

- 2.30. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
- 2.31. 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.
- 2.32. Due to the seasonal nature of charges for Unmetered Supplies, changes between Measurement Classes B and D (or vice versa) shall not be agreed except with effect from 1 April in any charging year.

# Time periods for half hourly metered properties

- 2.33. 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.
- 2.34. 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

2.35. The time periods for the application of unit charges to Unmetered Supply Exit Points that are pseudo HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.

#### Application of capacity charges

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

#### Chargeable capacity

- 2.37. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.38. 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 12 month period.
- 2.39. Reductions to the MIC and/or MEC may only be permitted once in a 12 month period. Where the MIC and/or MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum demand. The new MIC and/or 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.

2.40. 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 us using the contact details in section 1.

# **Exceeded capacity**

2.41. 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 billing period in which the breach occurs.

# Demand exceeded capacity

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)

- 2.42. 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 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.
- 2.43. This calculation is completed for every half hour and the maximum value from the billing period is applied.

# **Generation exceeded capacity**

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)

- 2.44. 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.
- 2.45. 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

2.46. Where standby capacity charges are applied, the charge will be set at the same rate as that applied to normal MIC. Should a Customer's request for additional security of supply require the provision of capacity from two different sources, we reserve the right to charge for the capacity held at each source.

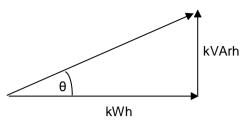
#### Minimum capacity levels

2.47. There is no minimum capacity threshold.

#### Application of charges for excess reactive power

- 2.48. When an individual HH metered MPAN's reactive power (measured in kVArh) at LV and HV Designated Properties exceeds 33% of its 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.
- 2.49. Power Factor is calculated as follows:

 $\cos \theta$  = Power Factor



2.50. The chargeable reactive power is calculated as follows:

# Demand chargeable reactive power

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)

- 2.51. 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.
- 2.52. 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.

#### Generation chargeable reactive power

Generation chargeablek VArh = 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)

- 2.54. 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.
- 2.55. The square root calculation will be to two decimal places.
- 2.56. This calculation is completed for every half hour and the values summated over the billing period.

# Incorrectly allocated charges

- 2.57. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection, import/export details, metering information and, for some tariffs, the metering location. Where an MPAN/MSID is used for export purposes, the type of generation (intermittent or non-intermittent) also determines the allocation of charges.
- 2.58. We are responsible for deciding the voltage of connection. Generally, this is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected Customer.
- 2.59. The Supplier determines and provides us with the metering information and data. This enables us to allocate charges where there is more than one charge per voltage level. The metering information and data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When we are notified this has happened we will change the allocation of charges accordingly.
- 2.60. If it has been identified that a charge may have been incorrectly allocated due to the metering information and/or data then a request for investigation should be made to the Supplier.
- 2.61. Where it has been identified that a charge may have been incorrectly allocated due to the voltage of connection, import/export details or metering location then a request to investigate the applicable charges should be made to us. Requests from persons other than the Customer or the current Supplier must be accompanied by a Letter of Authority from the Customer; the current Supplier must also acknowledge that they are aware a request has been made. Any request must be supported by an explanation of why it is believed that the

current charge should be changed, along with supporting information including, where appropriate, photographs of metering positions or system diagrams. Any request to change the current charge that also includes a request for backdating must include justification as to why it is considered appropriate to backdate the change.

- 2.62. An administration charge (covering our reasonable costs) may be made if a technical assessment or site visit is required, but we will not apply any charge where we agree to the change request.
- 2.63. Where we agree that the current LLFC/charge should be changed, then we will allocate the appropriate set of charges for the connection. Any adjustment 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 from the date of request, and the Prescription and Limitation (Scotland) Act 1973, which covers a five year period from the date of request; whichever is the shorter.
- 2.64. Any credit or additional charge will be issued to the relevant Supplier(s) who were effective during the period of the change.
- 2.65. Should we reject the request a justification will be provided to the requesting party. We shall not unreasonably withhold or delay any decision on a request to change the charges applied and would expect to confirm our position on the request within three months from the date of request.

# Generation charges for pre-2005 designated EHV properties

- 2.66. 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.

2.67. 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

- 2.68. 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.
- 2.69. The metering data shall identify the amount of energy conveyed across the Metering System 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.
- 2.70. 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<sup>8</sup> (as agreed with us). The data shall be emailed to UOS ADMINISTRATORS@spenergynetworks.co.uk.
- 2.71. 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

2.72. We do not operate networks outside our Distribution Services Area

<sup>&</sup>lt;sup>8</sup> MRA Data Transfer Catalogue available from <u>https://dtc.mrasco.com/</u>

SP DISTRIBUTION PLC

#### Licensed distribution network operator charges

- 2.73. Licensed Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.
- 2.74. 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.
- 2.75. Where a NHH metered 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 SSC/TPR combination.
- 2.76. 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.
- 2.77. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21<sup>9</sup> will apply. <u>http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx</u>

#### Licence exempt distribution networks

- 2.78. The Electricity and Gas (Internal Market) Regulations 2011<sup>10</sup> 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.
- 2.79. When Customers (both domestic and commercial) are located within a licence 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.

 <sup>&</sup>lt;sup>9</sup> The Distribution and Connection Use of System Agreement (DCUSA) available from <a href="http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx">http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx</a>
 <sup>10</sup> The Electricity and Gas (Internal Market) Regulations 2011 available from

The Electricity and Gas (Internal Market) Regulations 2011 available fr <u>http://www.legislation.gov.uk/uksi/2011/2704/contents/made</u>

2.80. Licence exempt distribution networks owners can provide third party access using either full settlement metering or the difference metering approach.

# Full settlement metering

- 2.81. 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.
- 2.82. In this approach our UoS charges will be applied to each MPAN.

# Difference metering

2.83. 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 premises. Under this approach the Customers requiring third party access on the exempt distribution network will have their own MPAN and must have a HH Metering System.

#### **Gross settlement**

- 2.84. Where one of our MPANs (prefix 18) 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.
- 2.85. 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 uosadminstrators@scottishpower.com;
  - the title of the email should also contain the phrase "gross data for difference metered private network" and contain the metering reference specified by us in place of the Settlement MPAN; and

- 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".
- 2.86. 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 use of our Distribution System 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 <a href="http://www.scottishpower.com/pages/connections use of system and metering">http://www.scottishpower.com/pages/connections use of system and metering services.asp</a>
- 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 lost<sup>11</sup> 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 of the energy lost on the Distribution System.
- 4.2. We are responsible for calculating the Line Loss Factors<sup>12</sup> (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. LLFs are used to adjust the Metering System volumes to take account of losses on the Distribution System.

# Calculation of line loss factors

- 4.4. LLFs are calculated in accordance with BSC procedure 128. BSCP128 sets out the procedure and principles with which our LLF methodology must comply. It also defines the procedure and timetable by which LLFs are reviewed and submitted.
- 4.5. LLFs are calculated for a set number of time periods during the year using either a generic or 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 in the EDCM. The definition used for LLF purposes can be found in our LLF methodology.

<sup>&</sup>lt;sup>11</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.

<sup>&</sup>lt;sup>12</sup> Also referred to as Loss Adjustment Factors.

4.7. The Elexon website <u>http://www.elexon.co.uk/reference/technical-operations/losses/</u> contains more information on LLFs. This page also has links to BSCP128 and to our LLF methodology.

# Publication of line loss factors

- 4.8. The LLFs used in Settlement are published on the Elexon portal website, <u>www.elexonportal.co.uk</u>. The website contains the LLFs in standard industry data formats and in a summary form. A user guide with details on registering and using the portal is also available.
- 4.9. The BSCP128 sets out the timetable by which LLFs are submitted and audited. The submission and audit occurs between September and December in the year prior to the LLFs becoming effective. Only after the completion of the audit at the end of December and BSC approval are the final LLFs published.
- 4.10. Illustrative LLFs based on the latest submitted LLFs are provided in Annex 5 of this statement. These illustrative LLFs are provided with reference to the metered voltage or associated LLFC for generic LLFs and by reference to the LLFCs for site-specific LLFs. Each LLF is applicable to a defined time period.
- 4.11. As this charging statement is published a complete year before the LLFs have been published it is important to note that the LLFs provided in this statement are for illustration only and may be revised during the BSCP128 process.
- 4.12. When using the tables in Annex 5, reference should be made to the LLFC allocated to the MPAN to find the appropriate values.

# 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 on our website in an addendum to that statement as and when necessary. The addendum will include charge information of the type found in Annex 2, and LLFs as found in Annex 5.
- 5.4. The form of the addendum is detailed in Annex 6 to this statement.
- 5.5. The addendum will also be sent to all relevant DCUSA parties (i.e. the registered Supplier) and where requested the Customer.
- 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 all relevant 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:

SP Distribution Plc Network Planning & Regulation Ochil House 10 Technology Avenue Hamilton International Technology Park Blantyre G72 0HT Email: <u>commercial@spenergynetworks.co.uk</u>

# 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 version 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;

http://www.legislation.gov.uk/uksi/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 <u>www.elexon.co.uk/ELEXON</u> <u>Documents/trading_arrangements.pdf</u> .
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.
Connection Agreement	An agreement between an LDNO and a Customer which provides that that Customer has the right for its connected installation to be and remain directly or indirectly connected to that LDNO's Distribution System
Central Volume Allocation (CVA)	As defined in the BSC.
	A person to whom a User proposes to supply, or for the time being supplies, electricity through an exit point, or from who, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point;
Customer	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 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	Defin	Definition	
	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.		
	ID	Distribution Service Area	Company
	10	East of England	UK Power Networks
	11	East Midlands	Western Power Distribution
	12	London	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 (and embedded networks in other areas)	Scottish Hydro Electric Power Distribution plc
	18	South Scotland	Scottish Power
	19	South East England	UK Power Networks
Distributor IDs	20	Southern Electric (and embedded networks in other areas)	Southern Electric Power Distribution plc
	21	South Wales	Western Power Distribution
	22	South Western	Western Power Distribution
	23	Yorkshire	Northern Powergrid
	24	All	Independent Power Networks
	25	All	ESP Electricity
	26	All	Energetics Electricity Ltd
	27	All	The Electricity Network Company Ltd
	29	All	Harlaxton Energy Networks
	30	All	Peel Electricity Networks Ltd
	31	All	UK Power Distribution Ltd
Distribution Connection and Use of System Agreement	electr Trans	OCUSA is a multi-party contra icity distributors, suppliers, ge mission Owners of Great Brit	enerators and Offshore ain.
(DCUSA)		requirement that all licensed iers become parties to the DC	

Term	Definition	
Distribution Network Operator (DNO)	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.	
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.	
Distribution System	<ul> <li>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: <ul> <li>Grid Supply Points or generation sets or other entry points</li> </ul> </li> <li>to the points of delivery to: <ul> <li>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</li> </ul> </li> </ul>	
	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.	
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 System which is embedded within another Distribution System.	
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another Distribution System.	
Engineering Recommendation P2/6	A document of the Energy Networks Association, which defines planning standards for security of supply and is referred to in Standard Licence Condition 24 of our Electricity Distribution Licence.	
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).	

Term	Definition
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.
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.
Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can not be made available on demand, in accordance to the definitions in Engineering Recommendation P2/6. These include wind, tidal, wave, photovoltaic and small hydro.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in market domain data - see <u>https://www.elexonportal.co.uk/MDDVIEWER</u> .
kVA	Kilovolt ampere.
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 electricity 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	$= \frac{annual\ consumption\ (kWh)}{maximum\ demand\ (kW) \times hours\ in\ year}$
Low Voltage (LV)	Nominal voltages below 1kV.

Term	Definition	
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.	
Measurement Class	<ul> <li>A classification of metering systems used in the BSC which indicates how consumption is measured, i.e.:</li> <li>Measurement class A – non-half hourly metering equipment;</li> <li>Measurement class B – non-half hourly unmetered supplies;</li> <li>Measurement class C – half hourly metering equipment at or above 100kW premises;</li> <li>Measurement class D – half hourly unmetered supplies;</li> <li>Measurement class E – half hourly metering equipment below 100kW premises with CT;</li> <li>Measurement class F – half hourly metering equipment at below 100kW premises with CT or whole current, and at domestic premises; and</li> <li>Measurement class G – half hourly metering equipment at below 100kW premises with whole current and not at domestic premises.</li> </ul>	
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. Further information can be found in MDD.	
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 Point Administration Number (MPAN)	A number relating to a Metering Point under the MRA.	
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.	

Term	Definition
Metering System Identifier (MSID)	MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.
Master Registration Agreement (MRA)	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 premises/metering point.
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→primary nested DNO→ secondary nested DNO→customer).
Non-Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can be made available on demand, in accordance to the definitions in Engineering Recommendation P2/6. The generator can choose when to operate, and bring more benefits to the network if it runs at times of high load. These include combined cycle gas turbine (CCGT), gas generators, landfill, sewage, biomass, biogas, energy crop, waste incineration and combined heat and power (CHP).
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.

Term	Definition
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 <sup>13</sup> .
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 LDNO.

<sup>&</sup>lt;sup>13</sup> Balancing and Settlement Code Procedures are available from <u>http://www.elexon.co.uk/pages/bscps.aspx</u>

# Appendix 2 - Guidance notes<sup>14</sup>

# 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.

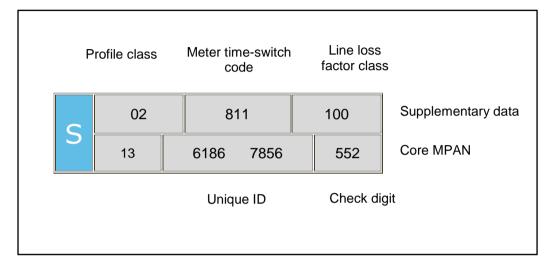
#### Meter point administration

- 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 an 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 premises.

<sup>&</sup>lt;sup>14</sup> 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 premises. 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 Distribution is 18. 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 18 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 may be 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\_meterin g\_services.asp

#### Reducing your charges

1.1. 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. 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.

1.2. 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

- 1.3. 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.
- 1.4. 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.
- 1.5. 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.
- 1.6. 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.
- 1.7. 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

- 1.8. 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 (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.
- 1.9. EDCM charges and credits 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 credit.
- 1.10. 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, and 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 the 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 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 to consumption during the Super-red time period as detailed in Annex 2.

- 1.11. 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.
- 1.12. **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

Time Bands for Half Hourly Metered Properties											
Time periods	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 Ha	alf Hourly Unn	netered Prope	rties
	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 a	re in UK Clock time	

Tariff name	Open LLFCs	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh	Closed LLFCs
Domestic Unrestricted	100, 101, 110, 111, 160, 161	1	2.416			5.02				
Domestic Two Rate	114, 115, 118, 119, 120, 121, 162, 163	2	2.854	1.117		5.02				
Domestic Off Peak (related MPAN)	112, 113, 116, 117, 132, 133, 136, 137, 164, 165, 166	2	1.097							130, 134, 135
Small Non Domestic Unrestricted	201, 204	3	2.446			6.43				200, 202, 203, 205
Small Non Domestic Two Rate	221, 224, 260	3&4	2.951	1.184		6.43				220, 222
Small Non Domestic Off Peak (related MPAN)	225, 240, 241, 301, 302	4	1.472							223, 242, 243, 244, 245, 246
LV Medium Non-Domestic	400, 402	5-8	2.216	1.105		30.02				
LV Sub Medium Non-Domestic	404	5-8	1.829	1.066		0.00				
HV Medium Non-Domestic		5-8	1.465	1.016		318.78				401
LV Network Domestic	180	0	8.906	1.856	1.056	5.02				
LV Network Non-Domestic Non-CT	280	0	9.336	1.903	1.060	6.43				
LV HH Metered	500, 504	0	7.046	1.608	1.035	25.48	2.45	3.59	0.186	
LV Sub HH Metered	506, 507	0	5.118	1.325	1.009	8.99	4.46	5.08	0.098	
HV HH Metered	501, 505	0	3.835	1.191	0.999	136.14	4.92	6.05	0.057	
NHH UMS category A	900	8	2.147							904, 908, 909
NHH UMS category B	901	1	2.371							905
NHH UMS category C	902	1	3.159							906
NHH UMS category D	903	1	1.986							907
LV UMS (Pseudo HH Metered)	910	0	15.240	2.032	1.506					
LV Generation NHH or Aggregate HH	781, 782, 783, 784, 785	8&0	-0.762			0.00				
LV Sub Generation NHH	602	8	-0.673			0.00				
LV Generation Intermittent	603, 608	0	-0.762			0.00			0.176	
LV Generation Intermittent no RP charge	ТВА	0	-0.762			0.00				
LV Generation Non-Intermittent	604, 607	0	-5.617	-0.613	-0.045	0.00			0.176	
LV Generation Non-Intermittent no RP charge	ТВА	0	-5.617	-0.613	-0.045	0.00				
LV Sub Generation Intermittent	609	0	-0.673			0.00			0.155	
LV Sub Generation Intermittent no RP charge	ТВА	0	-0.673			0.00				
LV Sub Generation Non-Intermittent	610	0	-5.025	-0.529	-0.038	0.00			0.155	
LV Sub Generation Non-Intermittent no RP charge	ТВА	0	-5.025	-0.529	-0.038	0.00				
HV Generation Intermittent	611, 612	0	-0.407			99.41			0.124	
HV Generation Intermittent no RP charge	ТВА	0	-0.407			99.41				
HV Generation Non-Intermittent	605, 606	0	-3.333	-0.266	-0.013	99.41			0.124	
HV Generation Non-Intermittent no RP charge	ТВА	0	-3.333	-0.266	-0.013	99.41				

## 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 2018 - Final EDCM charges

Time Periods for Desi	gnated 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 charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
800	800	1800060775972	644	644	1800060775990	Rhodders		352.11	1.77	1.77		5861.03	0.05	0.05
801	801	1800060004220	MSID 8182		MSID 8182	Minsca		504.96						
802	802	1800060539962	683	683	1800060539971	Bankend Rig		144.80	4.31	4.31		5449.73	0.05	0.05
803	803	1800060532708	684	684	1800060532717	Barlockhart Moor		176.83	2.57	2.57		9901.70	0.05	0.05
804	804	1800060532726	685	685	1800060532735	Blantyre Muir		408.53	0.82	0.82		6437.57	0.05	0.05
805	805	1800060587850	693	693	1800060587869	Hunterston WF		117.17	0.95	0.95		8746.35	0.05	0.05
806	806	1800060532647	688	688	1800060532656	Middleton Farm		253.36	2.55	2.55		5756.23	0.05	0.05
807	807	1800060532665	689	689	1800060532674	Neilston Community		149.60	2.65	2.65		7061.91	0.05	0.05
808	808	1800053653870	681	681	1800053653880	Garlaff Landfill		121.27	0.80	0.80				
809	809	1800054992968	629	629	1800054992977	Hagshaw Hill Extension		792.43	0.83	0.83		20011.69	0.05	0.05
811	811	1800060328035	671	671	1800060328044	Muirhall		376.81	2.54	2.54		9043.53	0.05	0.05
812	812	1800060372113	672	672	1800060372122	Burnfoot		126.65	0.88	0.88		8837.86	0.05	0.05
813	813	1800060532498	690	690	1800060532503	Westfield WF		66.98	1.17	1.17		7868.41	0.05	0.05
814	814	1800060532683	691	691	1800060532692	Barmoor WF		222.30	2.78	2.78		21017.15	0.05	0.05
815	815	1800060566984	692	692	1800060566993	Nutberry WF		894.83	2.53	2.53		16940.53	0.05	0.05
816	816	1800060652454	695	695	1800060652463	Carcreugh WF		346.87	0.84	0.84		7080.28	0.05	0.05
817	817	1800060567668				Magnox		408.42	1.22	1.22				
818	818	1800060642767	700	700	1800060642776	West Browncastle WF		559.70	0.86	0.86		31684.48	0.05	0.05
819	819	1800060632661	699	699	1800060632670	Viridor (Waste energy)		1637.93	2.63	2.63		9813.91	0.05	0.05
820	820	1800060289486	620	620	1800060289510	Craigengelt		166.72	0.94	0.94		22773.33	0.05	0.05
821	821	1800054865132	621	621	1800054865141	Greenknowes		685.59	0.91	0.91		41135.66	0.05	0.05
822	822	1800060683754	703	703	1800060683763	Ewe Hill Dumfries WF		522.92	2.57	2.57		23590.95	0.05	0.05
823	823	1800060697223	704	704	1800060697232	Langhope Rig (D) WF		47.06	1.65	1.65		1543.31	0.05	0.05
824	824	1800060674253	705	705	1800060674262	Muirhall Extention WF		60.32	2.62	2.62		3594.62	0.05	0.05
825	825	1800060159192	625	625	1800060159208	Aikengall		1622.47				40970.78	0.05	0.05
826	826	1800053646251	626	626	1800053646260	Hagshaw Hill		44.62	2.62	2.62				
827	827	1800053646190	627	627	1800053646206	Gallow Rig		155.60	2.54	2.54				
828	828	1800053646172	628	628	1800053646181	Polwhat Rig		185.09	2.53	2.53				

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829	829	1800054738267	624	624	1800054738276	Greendykeside	58.62	2.65	2.65		4113.18	0.05	0.05
830	830	1800053647237	630	630	1800053647246	Dun Law	38.80	2.61	2.61		4113.10	0.00	0.00
831	831	1800053647194	631	631	1800053647200	EPR Scotland Ltd	310.10	2.71	2.71				
832	832	1800053648027	632	632	1800053648036	Bowbeat (Emly Bank)	200.95	2.55	2.55				
833	833	1800053648045	633	633	1800053648054	Bowbeat (Enry Bank) Bowbeat (Roughsidehill)	140.26	2.58	2.58				
834	834	1800053647380	634	634	1800053647399	Harehill	139.77	2.57	2.57				
835	835	1800053647618	635	635	1800053647627	Shanks & McEwan 3&4	131.06	2.68	2.68				
836	836	1800053647636	636	636	1800053647645	Shanks & McEwan 5	30.76	2.52	2.52			I	
837	837	1800053653843	637	637	1800053653852	Crystal Rig	717.25	0.81	0.81				
838	838	1800053694167	638	638	1800053694440	Haupland Muir (Ardrossan)	8.12	0.90	0.90		235.31	0.05	0.05
839	839	1800053950949	639	639	1800053950958	Wetherhill	1409.51	0.50	0.50		233.31	0.03	0.05
840	840	1800053434271	640	640	1800053883993	Artfield WF	912.25						
841	841	1800054152982	640	640	1800054152991	Wardlaw Wood	93.58	2.69	2.69				
842	842	1800054198365	641	641	1800054152991	Earlsburn	764.48	2.03	2.03				
843	843	1800054244570	642	642	1800054244598	Blackhill	2071.36				25005.71	0.05	0.05
844	844	1800054244570	643 MSID 8183	MSID 8183	MSID 8183	Dalswinton	521.04	0.86	0.86		25005.71	0.05	0.05
									0.85			I	
845	845	1800054498470	645	645	1800054498480	Steven's Croft Biomass	5080.33	0.83			7024.20	0.05	0.05
849	849	TBA	649	649	TBA	Sorbie Windfarm	146.64	1.77	1.77		7231.39	0.05	0.05
850	850	1800060251872	650	650	1800060251881	Longpark	903.35	0.51	0.51		22623.64	0.05	0.05
851	851	1800035140431			100000000000000000000000000000000000000	BOC	8249.12	2.51	2.51		00007.07	0.05	0.05
852	852	1800060642702	696	696	1800060642711	Calder Water WF	248.41	0.99	0.99		30287.27	0.05	0.05
853	853	1800035234188				Babcock Thorn	22306.78	4.30	4.30				
854	854	1800035261359	654	654	1800053946507	Lafarge UK	11533.62	3.66	3.66				
855	855	1800060241304	655	655	1800060241313	Pateshill	25.05	2.60	2.60		1402.70	0.05	0.05
856	856	1800035239460				Clydeport	30251.05	1.39	1.39				
857	857	1800035313389				Freescale	11781.84	3.51	3.51				
858	858	1800035327257				Tesco	1042.28	2.96	2.96				
859	859	1800035320127	697	697	1800060630637	GlaxoSmithKline	28215.67	2.14	2.14		2731.14	0.05	0.05
860	860	1800060852030	666	666	1800060852049	Gevens Wind Farm	23.38	1.77	1.77		5660.98	0.05	0.05
861	861	1800035324780				Weir Pumps	1880.08	4.80	4.80				
862	862	1800035317453				Dupont (UK) Ltd	78043.07	2.99	2.99				
863	863	1800060207438	663	663	1800060207447	North Rhins	326.72	2.54	2.54		9819.38	0.05	0.05
864	864	1800060709038	698	698	1800060709047	Tod Hills Windfarm	82.58	2.19	2.19		9072.76	0.05	0.05
865	865	1800060877284	670	670	1800060877293	Hoprigshiels	656.53	3.50	3.50		14083.18	0.05	0.05
866	866	1800051523646				Calachem	10876.81	10.46	10.46				
867	867	1800035325436				Norbord	21991.37	1.33	1.33				
868	868	1800060809025	664	664	1800060809034	MuirHall Extension II WF	58.37	2.91	2.91		5266.83	0.05	0.05
872	872	1800060749680	694	694	1800060749699	Polmadie (Waste energy B)	257.78	2.90	2.90	-0.522	2637.22	0.05	0.05
886	886	TBA	686	686	TBA	Sneddon Law WF	536.96	0.81	0.81		32210.37	0.05	0.05
887	887	1800060749661	706	706	1800060749670	Polmadie (Waste energy A)	1291.61	2.99	2.99	-0.522	5463.38	0.05	0.05
873	873	1800060450481	673	673	1800060450490	Millour Hill	238.51	0.87	0.87		16418.25	0.05	0.05
874	874	1800060441380	674	674	1800060441399	Glenkerie	422.38	2.60	2.60		16362.26	0.05	0.05
875	875	1800060450524	675	675	1800060450533	Kelburn (A)	194.80	2.62	2.62		9731.36	0.05	0.05
876	876	1800060450542	676	676	1800060450551	Kelburn (B)	194.80	2.64	2.64		9731.36	0.05	0.05
877	877	1800060450506	677	677	1800060450515	Little Raith	213.81	0.90	0.90		5879.86	0.05	0.05
878	878	1800060445640	678	678	1800060445659	Drone Hill	591.00	1.02	1.02		28985.11	0.05	0.05
879	879	1800060845812	680	680	1800060845821	Pearie Law Wind Farm	309.23	3.50	3.50		17595.32	0.05	0.05
880	880	1800060673222	701	701	1800060673231	Earlseat WF	174.85	2.63	2.63		13265.73	0.05	0.05

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881	881	1800060740288	702	702	1800060740297	Dungavel WF	583.72	0.93	0.93		34906.22	0.05	0.05
882	882	1800060769738	687	687	1800060769747	Burnhead Bathgate WF	69.92	2.67	2.67		4712.99	0.05	0.05
883	883	1800053647742	636	636	1800053647751	Shanks & McEwan 6	88.95	2.52	2.52				
884	884	1800060683693	679	679	1800060683709	Ardoch & Over Enoch WF	122.44	1.04	1.04		13352.20	0.05	0.05
885	885	TBA	623	623	TBA	Muirpark Wind Farm	127.77	1.77	1.77		17419.69	0.05	0.05
888	888	1800060817230	MSID 8732	MSID 8732	MSID 8732	Glenchamber	123.06	0.84	0.84		15974.55	0.05	0.05
889	889	1800060819273	708	708	1800060819282	Penmansheill	261.83	0.85	0.85		39549.89	0.05	0.05
891	891	1800060863723	668	668	1800060863732	Tormywheel	64.28	3.50	3.50		11413.87	0.05	0.05
892	892	1800060872755	669	669	1800060872764	Quixwood Wind Farm	330.61	1.77	1.77		29825.51	0.05	0.05
MSID 8083		MSID 8083				Dumbarton	0.00	2.63	2.63				
MSID 8085		MSID 8085				Stirling Road	0.00	3.13	3.13				
MSID 8334		MSID 8334	MSID 8334	MSID 8334		Markinch	3248.25	1.02	1.02		24767.93	0.05	0.05
MSID 8339	MSID 8339		MSID 8339	MSID 8339		Harehill Extension	63.71	3.50	3.50		9500.47	0.05	0.05
MSID 8340	MSID 8340	MSID 8340	MSID 8340	MSID 8340		Aries	77.80	1.77	1.77		14699.78	0.05	0.05
MSID 8341	MSID 8341	MSID 8341	MSID 8341	MSID 8341	MSID 8341	Andershaw WF	211.67	2.57	2.57		28882.65	0.05	0.05
MSID 8347	MSID 8347	MSID 8347	MSID 8347	MSID 8347	MSID 8347	Assel Valley	1707.41	0.85	0.85		52955.71	0.05	0.05
MSID 8348	MSID 8348	MSID 8348	MSID 8348	MSID 8348	MSID 8348	Auchrobert	357.93	1.77	1.77		17434.01	0.05	0.05
MSID 8349	MSID 8349	MSID 8349	MSID 8349	MSID 8349	MSID 8349	Harburnhead	49.44	3.50	3.50		11937.51	0.05	0.05
TBA	TBA	TBA	TBA	TBA	TBA	Twenty Shilling Hill	369.45	3.50	3.50		42852.31	0.05	0.05
310	310	1800036579036				Magco	436.64	7.53	7.53				
311	311	1800035324497				Stirling University	436.64	4.39	4.39				
312	312	1800035324530				Glenochil Distillery	436.64	8.95	8.95				
313	313	1800053648310				Longannet Power Station	436.64	15.32	15.32				
314	314	1800035327674				Cameron Ironworks	436.64	5.16	5.16				
315	315	1800035313398				Shin-Etsu	17105.51	3.72	3.72				
316	316	1800035344100				United Biscuits	436.64	4.71	4.71				
318	318	1800035337584				Balfours	436.64	1.08	1.08				
319	319	1800035331634				NB Distillery	436.64	2.97	2.97				
320	320	1800035340220				Finnart BP	18682.36	2.18	2.18				
321	321	1800035346589				Texas Instruments	873.27	6.57	6.57				
322	322	1800035346817				Glasgow Airport	436.64	10.43	10.43				
323	323	1800035326848				BP Dalmeny	13009.15	1.52	1.52				
324	324	1800035334227				Edinburgh Dock North	26526.42	1.59	1.59				
326	326	1800053646215	755	755	1800053646224	Bonnington Power Station	3.93	3.43	3.43	-2.475	432.70	0.05	0.05
328	328	1800060586917	750	750	1800060586926	Cathkin Braes Wind Farm	389.08	1.74	1.74		6143.55	0.05	0.05
329	329	1800060397697				New Glasgow South Hospital	11281.70	3.72	3.72				
330	330	1800060614714	752	752	1800060614741	Torrance WF	92.29	1.97	1.97		7877.12	0.05	0.05
331	331	1800060613543	754	754	1800060613552	Scottish Enterprise (Samsung WTTF)	160.99	3.14	3.14		5932.65	0.05	0.05
332	332	1800060709010	756	756	1800060709029	Torrance Windfarm Extension	141.23	1.97	1.97		7964.26	0.05	0.05
TBC	TBC	TBC	TBC	TBC	TBC	Millerhill WF	2055.54	3.50	3.50		7636.46	0.05	0.05
100	.00	100	.00		100		2000.04	0.00	0.00		1000.10	0.00	0.00

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

	SP	Distrib	ution - Effect	tive from 1 Ap	oril 2018 - Fir	nal LV and H\	/ tariffs						
			NHH	preserved charge	s/additional LLFCs	;							
	Closed LLFCs												
Domestic Off Peak (related MPAN)	130, 134,135	2	1.097										
Small Non Domestic Unrestricted	200, 202,203, 205	3 2446 643											
Small Non Domestic Two Rate	220, 222												
Small Non Domestic Off Peak (related MPAN)	223, 242, 243, 244, 245, 246	3&4	1.472										
HV Medium Non-Domestic	401	5-8	1.465	1.016		318.78							
Notes:	Unit time periods are as	specified in th	e SSC.					-					
	SP Distribution uses a default tarriff for invalid settlement combinations these will be charged at the Domestic Unrestricted Rates. The Domestic and Non-Domestic Off Peak (related MPAN) tarriffs are supplementary to a standard published tarriff and therefore only available under these conditions. Preserved tarriffs are only available to existing supplementary to cart and contemport of the supplementary of a netro point from one preserved tarriff for informations (from one preserved tarriff for thom one preserved tarriff may not normally the restored; b) Equipter may not normally transfer a meter point from one preserved tarriff for another preserved tarriff may not normally be restored; b) Any additional load required to be supplied on the preserved tarriff must be within the existing supply capacity.												

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

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 at	All the above times are in UK Clock time									

#### SP Distribution - Effective from 1 April 2018 - Final LDNO tariffs

Time Bands for H	alf Hourly Unn	netered Prope	rties
	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 a	re in UK Clock time	

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO LV: Domestic Unrestricted		1	1.481			3.08			
LDNO LV: Domestic Two Rate		2	1.749	0.685		3.08			
LDNO LV: Domestic Off Peak (related MPAN)		2	0.672						
LDNO LV: Small Non Domestic Unrestricted		3	1.499			3.94			
LDNO LV: Small Non Domestic Two Rate		4	1.809	0.726		3.94			
LDNO LV: Small Non Domestic Off Peak (related MPAN)		4	0.902						
LDNO LV: LV Medium Non-Domestic		5-8	1.358	0.677		18.40			
LDNO LV: LV Network Domestic		0	5.459	1.138	0.647	3.08			
LDNO LV: LV Network Non-Domestic Non-CT		0	5.723	1.166	0.650	3.94			
LDNO LV: LV HH Metered		0	4.319	0.986	0.634	15.62	1.50	2.20	0.114
LDNO LV: NHH UMS category A		8	1.316						
LDNO LV: NHH UMS category B		1	1.453						
LDNO LV: NHH UMS category C		1	1.936						
LDNO LV: NHH UMS category D		1	1.217						
LDNO LV: LV UMS (Pseudo HH Metered)		0	9.341	1.246	0.923				
LDNO LV: LV Generation NHH or Aggregate HH		8&0	-0.762			0.00			
LDNO LV: LV Generation Intermittent		0	-0.762			0.00			0.176
LDNO LV: LV Generation Non-Intermittent		0	-5.617	-0.613	-0.045	0.00			0.176
LDNO HV: Domestic Unrestricted		1	0.838			1.74			
LDNO HV: Domestic Two Rate		2	0.990	0.387		1.74			
LDNO HV: Domestic Off Peak (related MPAN)		2	0.380						
LDNO HV: Small Non Domestic Unrestricted		3	0.848			2.23			
LDNO HV: Small Non Domestic Two Rate		4	1.023	0.411		2.23			
LDNO HV: Small Non Domestic Off Peak (related MPAN)		4	0.510						
LDNO HV: LV Medium Non-Domestic		5-8	0.768	0.383		10.41			
LDNO HV: LV Network Domestic		0	3.089	0.644	0.366	1.74			
LDNO HV: LV Network Non-Domestic Non-CT		0	3.238	0.660	0.368	2.23			
LDNO HV: LV HH Metered		0	2.443	0.558	0.359	8.84	0.85	1.24	0.065
LDNO HV: LV Sub HH Metered		0	2.903	0.752	0.572	5.10	2.53	2.88	0.056
LDNO HV: HV HH Metered		0	2.498	0.776	0.651	88.68	3.20	3.94	0.037
LDNO HV: NHH UMS category A		8	0.745						
LDNO HV: NHH UMS category B		1	0.822						
LDNO HV: NHH UMS category C		1	1.096						
LDNO HV: NHH UMS category D		1	0.689						
LDNO HV: LV UMS (Pseudo HH Metered)		0	5.285	0.705	0.522				
LDNO HV: LV Generation NHH or Aggregate HH		8&0	-0.762			0.00			
LDNO HV: LV Sub Generation NHH		8	-0.673			0.00			
LDNO HV: LV Generation Intermittent		0	-0.762			0.00			0.176
LDNO HV: LV Generation Non-Intermittent		0	-5.617	-0.613	-0.045	0.00			0.176

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LDNO HV: LV Sub Generation Intermittent	0	-0.673			0.00			0.155
LDNO HV: LV Sub Generation Non-Intermittent	0	-5.025	-0.529	-0.038	0.00			0.155
LDNO HV: HV Generation Intermittent	0	-0.407			0.00			0.124
LDNO HV: HV Generation Non-Intermittent	0	-3.333	-0.266	-0.013	0.00			0.124
LDNO HVplus: Domestic Unrestricted		0.575	0.000		1.19			
LDNO HVplus: Domestic Two Rate		0.679	0.266		1.19			
LDNO HVplus: Domestic Off Peak (related MPAN)		0.261						
LDNO HVplus: Small Non Domestic Unrestricted		0.582			1.53			
LDNO HVplus: Small Non Domestic Two Rate		0.702	0.282		1.53			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		0.350						
LDNO HVplus: LV Medium Non-Domestic		0.527	0.263		7.14			
LDNO HVplus: LV Sub Medium Non-Domestic		0.692	0.403		0.00			
LDNO HVplus: HV Medium Non-Domestic		0.630	0.437		137.13			
LDNO HVplus: LV Network Domestic		2.118	0.441	0.251	1.19			
LDNO HVplus: LV Network Non-Domestic Non-CT		2.220	0.453	0.252	1.53			
LDNO HVplus: LV HH Metered		1.675	0.382	0.246	6.06	0.58	0.85	0.044
LDNO HVplus: LV Sub HH Metered		1.936	0.501	0.382	3.40	1.69	1.92	0.037
LDNO HVplus: HV HH Metered		1.650	0.512	0.430	58.57	2.12	2.60	0.025
LDNO HVplus: NHH UMS category A		0.511						
LDNO HVplus: NHH UMS category B		0.564						
LDNO HVplus: NHH UMS category C		0.751						
LDNO HVplus: NHH UMS category D		0.472						
LDNO HVplus: LV UMS (Pseudo HH Metered)		3.624	0.483	0.358				
LDNO HVplus: LV Generation NHH or Aggregate HH		-0.288			0.00			
LDNO HVplus: LV Sub Generation NHH		-0.290			0.00			
LDNO HVplus: LV Generation Intermittent		-0.288			0.00			0.067
LDNO HVplus: LV Generation Non-Intermittent		-2.125	-0.232		0.00			0.067
LDNO HVplus: LV Sub Generation Intermittent		-0.290			0.00			0.067
LDNO HVplus: LV Sub Generation Non-Intermittent		-2.162	-0.228	-0.016	0.00			0.067
LDNO HVplus: HV Generation Intermittent		-0.407			99.41			0.124
LDNO HVplus: HV Generation Non-Intermittent		-3.333	-0.266	-0.013	99.41			0.124
LDNO EHV: Domestic Unrestricted		0.280			0.58			
LDNO EHV: Domestic Two Rate		0.331	0.129		0.58			
LDNO EHV: Domestic Off Peak (related MPAN)		0.127						
LDNO EHV: Small Non Domestic Unrestricted		0.283			0.74			
LDNO EHV: Small Non Domestic Two Rate		0.342	0.137		0.74			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)		0.171						
LDNO EHV: LV Medium Non-Domestic		0.257	0.128		3.48			
LDNO EHV: LV Sub Medium Non-Domestic		0.337	0.196		0.00			
LDNO EHV: HV Medium Non-Domestic		0.307	0.213		66.81			
LDNO EHV: LV Network Domestic		1.032	0.215	0.122	0.58			
LDNO EHV: LV Network Non-Domestic Non-CT		1.082	0.220	0.123	0.74			
LDNO EHV: LV HH Metered		0.816	0.186	0.120	2.95	0.28	0.42	0.022
LDNO EHV: LV Sub HH Metered		0.943	0.244	0.186	1.66	0.82	0.94	0.018
LDNO EHV: HV HH Metered		0.804	0.250	0.209	28.53	1.03	1.27	0.012
LDNO EHV: NHH UMS category A		0.249						
LDNO EHV: NHH UMS category B		0.275						
LDNO EHV: NHH UMS category C		0.366						
LDNO EHV: NHH UMS category D		0.230						
LDNO EHV: LV UMS (Pseudo HH Metered)		1.766	0.235	0.174				
LDNO EHV: LV Generation NHH or Aggregate HH		-0.140			0.00			
LDNO EHV: LV Sub Generation NHH		-0.141			0.00			
LDNO EHV: LV Generation Intermittent		-0.140			0.00			0.032
LDNO EHV: LV Generation Non-Intermittent		-1.035	-0.113	-0.008	0.00			0.032
LDNO EHV: LV Sub Generation Intermittent		-0.141			0.00			0.032
LDNO EHV: LV Sub Generation Non-Intermittent		-1.053	-0.111	-0.008	0.00			0.032
LDNO EHV: HV Generation Intermittent		-0.198			48.43			0.060
LDNO EHV: HV Generation Non-Intermittent		-1.624	-0.130	-0.006	48.43			0.060

LDNO 132kV/EHV: Domestic Unrestricted		0.051			0.11		
LDNO 132kV/EHV: Domestic Two Rate		0.061	0.024		0.11		
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		0.023					
LDNO 132kV/EHV: Small Non Domestic Unrestricted		0.052			0.14		
LDNO 132kV/EHV: Small Non Domestic Two Rate		0.063	0.025		0.14		
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		0.031					
LDNO 132kV/EHV: LV Medium Non-Domestic		0.047	0.023		0.64		
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		0.062	0.036		0.00		
LDNO 132kV/EHV: HV Medium Non-Domestic		0.056	0.039		12.23		
LDNO 132kV/EHV: LV Network Domestic		0.189	0.039	0.022	0.11		
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT		0.198	0.040	0.022	0.14		
LDNO 132kV/EHV: LV HH Metered		0.149	0.034	0.022	0.54	0.05	0.08
LDNO 132kV/EHV: LV Sub HH Metered		0.173	0.045	0.034	0.30	0.15	0.17
LDNO 132kV/EHV: HV HH Metered		0.147	0.046	0.038	5.22	0.19	0.23
LDNO 132kV/EHV: NHH UMS category A		0.046					
LDNO 132kV/EHV: NHH UMS category B		0.050					
LDNO 132kV/EHV: NHH UMS category C		0.067					
LDNO 132kV/EHV: NHH UMS category D		0.042					
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)		0.323	0.043	0.032			
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH		-0.026			0.00		
LDNO 132kV/EHV: LV Sub Generation NHH		-0.026			0.00		
LDNO 132kV/EHV: LV Generation Intermittent		-0.026			0.00		
LDNO 132kV/EHV: LV Generation Non-Intermittent		-0.190	-0.021	-0.002	0.00		
LDNO 132kV/EHV: LV Sub Generation Intermittent		-0.026	-0.021	-0.002	0.00		
			0.000	-0.001			
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent		-0.193	-0.020	-0.001	0.00		
LDNO 132kV/EHV: HV Generation Intermittent		-0.036	0.004	0.004	8.87		
LDNO 132kV/EHV: HV Generation Non-Intermittent		-0.297	-0.024	-0.001	8.87		
LDNO 132kV: Domestic Unrestricted		0.000			0.00		
LDNO 132kV: Domestic Two Rate		0.000	0.000		0.00		
LDNO 132kV: Domestic Off Peak (related MPAN)		0.000					
LDNO 132kV: Small Non Domestic Unrestricted		0.000			0.00		
LDNO 132kV: Small Non Domestic Two Rate		0.000	0.000		0.00		
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		0.000					
LDNO 132kV: LV Medium Non-Domestic		0.000	0.000		0.00		
LDNO 132kV: LV Sub Medium Non-Domestic		0.000	0.000		0.00		
LDNO 132kV: HV Medium Non-Domestic		0.000	0.000		0.00		
LDNO 132kV: LV Network Domestic		0.000	0.000	0.000	0.00		
LDNO 132kV: LV Network Non-Domestic Non-CT		0.000	0.000	0.000	0.00		
LDNO 132kV: LV HH Metered		0.000	0.000	0.000	0.00	0.00	0.00
LDNO 132kV: LV Sub HH Metered		0.000	0.000	0.000	0.00	0.00	0.00
LDNO 132kV: HV HH Metered		0.000	0.000	0.000	0.00	0.00	0.00
LDNO 132kV: NHH UMS category A		0.000					
LDNO 132kV: NHH UMS category B		0.000					
LDNO 132kV: NHH UMS category C		0.000					
LDNO 132kV: NHH UMS category D		0.000					
LDNO 132kV: LV UMS (Pseudo HH Metered)		0.000	0.000	0.000			
LDNO 132kV: LV Generation NHH or Aggregate HH		0.000			0.00		
LDNO 132kV: LV Sub Generation NHH		0.000			0.00		
LDNO 132kV: LV Generation Intermittent		0.000			0.00		
LDNO 132kV: LV Generation Non-Intermittent		0.000	0.000	0.000	0.00		
LDNO 132kV: LV Sub Generation Intermittent		0.000			0.00		
LDNO 132kV: LV Sub Generation Non-Intermittent		0.000	0.000	0.000	0.00		
LDNO 132kV: HV Generation Intermittent		0.000			0.00		
LDNO 132kV: HV Generation Non-Intermittent		0.000	0.000	0.000	0.00		
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SP Dis	stribution - Illustrati	ve LLFs for year b	eginning 1 April 20	18	
	Period 1	Period 2	Period 3	Period 4	
Time periods					
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		
	Meter	ed voltage, respective per	iods and associated LLFCs		
Metered voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Low-voltage network	1.076	1.088	1.100	1.113	100,101,110,111,112,113,1 14,115,116,117,118,119,12 0,121,130,132,133,134,135, 136,137,160,161,162,163,1 64,165,166,180,200,201,20 2,203,204,205,220,221,222, 223,224,225,240,241,242,2 43,244,245,246,260,280,40 0,402,500,504,603,604,607, 608,781,782,783,784,785,9 00,901,902,903,910
Low-voltage substation	1.044	1.044	1.046	1.049	404,506,507,602,609,610
High-voltage network	1.023	1.026	1.029	1.031	301,302,401,501,505,599,6 00,601,605,606,611,612,61 5,616,617
High-voltage substation	1.013	1.012	1.012	1.013	310,311,312,313,314,315,3 16,317,318,319,320,321,32 2,323,324,325,326,327,328, 329,330,331,332,333,334,3 35,336,337,338,339,340,75 0,751,752,753,754,755,756, 757,758,759,760,761,762,7 63,764,765,862,866,867
33kV generic (demand)	1.003	1.004	1.005	1.005	
33kV generic (generation)	1.000	1.000	1.000	1.000	
132kV generic					
132kV generic					

#### Annex 5 - Schedule of line loss factors

		EHV site spec	ific LLFs		
		Demai	nd		
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
hodders	1.003	1.004	1.005	1.005	800
linsca	1.000	1.001	1.001	1.002	801
ankend Rig	1.006	1.010	1.012	1.014	802
arlockhart Moor	1.000	1.000	1.000	1.002	803
lantyre Muir	1.000	1.000	1.000	1.001	804
unteston WF	1.000	1.000	1.000	1.000	805
liddleton Farm	1.001	1.001	1.002	1.002	806
leilston Community	1.001	1.002	1.002	1.003	807
Garlaff Landfill	0.999	1.000	1.001	1.019	808
lagshaw Hill Extension	1.000	1.001	1.002	1.002	809
luirhall	1.000	1.000	1.000	1.000	811
umfoot	1.000	1.000	1.000	1.000	812
/estfield WF	1.000	1.000	1.000	1.000	813
armour	1.004	1.006	1.007	1.009	814
utberry Windfarm	1.006	1.008	1.010	1.012	815
arcreugh WF	1.000	1.000	1.001	1.001	816
aqnox	1.000	1.000	1.002	1.003	817
/est Browncastle	1.001	1.000	1.002	1.000	818
iridor Energy Import	1.003	1.000	1.005	1.005	819
raigengelt Windfarm Import	1.003	1.004	1.005	1.005	820
raigengeit windfarm import reenknowes Windfarm Import	1.000	1.000	1.001	1.001	820
we Hill WF	1.003	1.004	1.005	1.005	822
anghope Rig WF	1.000	1.000	1.001	1.001	823
uirhall Ext WF	1.000	1.001	1.000	1.002	824
ikengall Community WF Import	1.000	1.000	1.000	1.000	825
agshaw Hill Windfarm Import	1.006	1.009	1.010	1.013	826
allow Rig Windfarm Import	1.019	1.026	1.031	1.037	827
olwhat Rig Windfarm Import	1.019	1.026	1.031	1.037	828
reendykeside Windfarm Import	1.000	1.000	1.000	1.001	829
un Law - Import	1.003	1.003	1.004	1.006	830
PR Scotland Ltd	1.000	1.000	1.000	1.000	831
owbeat (Emly Bank) Import	1.015	1.020	1.024	1.029	832
owbeat (Roughsidehill)	1.015	1.020	1.024	1.029	833
arehill Windfarm	1.019	1.026	1.031	1.037	834
hanks 3 & 4 Import	1.000	1.000	1.000	1.000	835
hanks & McEwan 5	1.001	1.001	1.001	1.001	836
rystal Rig - Import	1.000	1.000	1.000	1.000	837
aupland Muir Import	1.003	1.003	1.003	1.003	838
/etherhill Windfarm Import	1.006	1.010	1.012	1.014	839
rtfield Fell Import	1.000	1.000	1.000	1.002	840
/ardlaw Wood - Import	1.010	1.014	1.017	1.021	841
arlsburn - Import	1.000	1.000	1.000	1.001	842
ack Hill Windfarm - Import	1.014	1.020	1.024	1.029	843
alswinton - Import	1.000	1.000	1.000	1.000	844
evens Croft Import	1.000	1.000	1.001	1.002	845
orbie Windfarm	1.003	1.004	1.005	1.005	849
ongpark Windfarm	1.003	1.004	1.003	1.003	850
OC Carfin	1.001	1.001	1.001	1.001	851
alder Water WF	1.000	1.001	1.000	1.001	852
alder vvater vv⊢	1.000	1.000	1.000	1.000	852
farge UK	1.003	1.003	1.003	1.003	854
ates Hill Windfarm Windfarm	1.000	1.000	1.000	1.000	855
ydeport	1.000	1.000	1.000	1.000	856
eescale/Motorola	1.000	1.000	1.000	1.000	857
sco Livingston (NEC)	1.000	1.000	1.000	1.000	858
axoSmithKline	1.008	1.008	1.008	1.008	859
even Windfarm	1.003	1.004	1.005	1.005	860
eir Pumps	1.003	1.004	1.005	1.005	861
uPont (UK) Ltd	1.013	1.012	1.012	1.013	862
orth Rhinns Windfarm	1.013	1.017	1.020	1.026	863
d Hills WF Imp	1.000	1.001	1.001	1.002	864

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Hoprigshiels Windfarm Import	1.003	1.004	1.005	1.005	865
Calachem	1.013	1.012	1.012	1.013	866
Norbord	1.013	1.012	1.012	1.013	867
MuirHall Extension II WF	1.003	1.004	1.005	1.005	868
Polmadie (Waste Energy B)	1.003	1.004	1.005	1.005	872
Millour Hill Windfarm Import	1.003	1.003	1.003	1.003	873
Glenkerrie Windfarm Import	1.011	1.016	1.019	1.023	874
Kelburn A Windfarm Import	1.020	1.028	1.033	1.042	875
Kelburn B Windfarm Import	1.021	1.031	1.037	1.047	876
Little Raith Windfarm Import	1.000	1.000	1.000	1.000	877
Drone Hill Import	1.001	1.003	1.003	1.003	878
Pearie Law Windfarm Import	1.003	1.004	1.005	1.005	879
Earlseat WF	1.000	1.000	1.000	1.000	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 6 Import	1.003	1.004	1.005	1.005	883
Ardoch & Over Enoch WF	1.000	1.000	1.000	1.000	884
Muirpark Windfarm	1.003	1.004	1.005	1.005	885
Sneddon Law WF Imp	1.003	1.004	1.005	1.005	886
Polmadie (Waste energy A)	1.003	1.004	1.005	1.005	887
Glenchamber	1.003	1.004	1.005	1.005	888
Pemansheill	1.003	1.004	1.005	1.005	889
Tormywheel Windfarm	1.003	1.004	1.005	1.005	891
Quixwood Windfarm	1.003	1.004	1.005	1.005	892
Millerhill Windfarm	1.003	1.004	1.005	1.005	TBC
Drymen	0.998	0.998	0.998	0.998	MSID 8083
Killearn	1.000	1.000	1.000	1.000	MSID 8085
Markinch	0.999	0.999	0.998	0.997	MSID 8334
Auchrobert	1.000	1.000	1.000	1.000	MSID 8348
Andershaw WF	1.000	1.000	1.000	1.000	MSID 8341
HareHill Extension	1.000	1.000	1.000	1.000	MSID 8339
Assel Valley	1.000	1.000	1.000	1.000	MSID 8347
Aries	1.000	1.000	1.000	1.000	MSID 8340
Harburnhead	1.000	1.000	1.000	1.000	MSID 8349
Twenty Shilling Hill	1.000	1.000	1.000	1.000	MSID TBC

		EHV site spec	ific LLFs		
		Generat	ion	[	1
Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC
Craigengelt Windfarm Export	0.990	0.990	0.987	0.987	620
Greenknowes Windfarm Export	0.992	0.992	0.990	0.989	621
luirpark Windfarm	1.000	1.000	1.000	1.000	623
Greendykeside Windfarm Export	0.999	0.999	0.999	0.999	624
ikengall Community WF Export	0.993	0.993	0.991	0.991	625
lagshaw Hill Windfarm Export	1.001	1.003	1.003	1.005	626
Sallow Rig Windfarm Export	1.008	1.014	1.017	1.022	627
Polwhat Rig Windfarm Export	1.007	1.013	1.017	1.021	628
lagshaw Hill Extension Export	0.990	0.990	0.988	0.988	629
)un Law - Export	0.983	0.982	0.977	0.978	630
PR Scotland Ltd	0.999	0.999	1.000	1.000	631
Bowbeat (Emly Bank) Export	1.003	1.008	1.008	1.011	632
Bowbeat (Roughsidehill) Export	1.000	1.004	1.004	1.008	633
larehill Export	1.000	1.006	1.008	1.013	634
Shanks 3 & 4 Export	0.999	0.999	0.999	0.999	635
Shanks 5 & 6 Export	0.999	0.999	0.999	0.999	636
Crystal Rig - Export	1.000	1.000	1.000	1.000	637
laupland Muir Export	0.999	0.999	0.999	1.000	638
Vetherhill Windfarm Export	0.988	0.991	0.988	0.990	639
Artfield Fell Export	0.999	0.999	0.999	1.000	640
Vardlaw Wood - Export	0.993	0.996	0.995	0.998	641
-	0.984	0.984	0.981	0.980	642
Earlsburn - Export				1.011	643
Black Hill Windfarm- Export	1.002	1.007	1.007		
Rhodders	1.000	1.000	1.000	1.000	644
Stevens Croft Export	0.977	0.977	0.977	0.978	645
Sorbie Windfarm	1.000	1.000	1.000	1.000	649
ongpark Windfarm Export	0.996	0.996	0.994	0.994	650
.afarge (UK) Ltd	1.001	1.001	1.001	1.001	654
Pateshill Windfarm Export	0.998	0.998	0.997	0.998	655
North Rhinns Windfarm Export	0.982	0.985	0.981	0.984	663
NuirHall Extension II WF	1.000	1.000	1.000	1.000	664
Geven Windfarm Export	1.000	1.000	1.000	1.000	666
ormywheel Windfarm Export	1.000	1.000	1.000	1.000	668
Quixwood Windfarm Export	1.000	1.000	1.000	1.000	669
loprigshiels Windfarm Export	1.000	1.000	1.000	1.000	670
Auirhall Windfarm Export	0.990	0.990	0.988	0.988	671
Burnfoot Windfarm Export	0.992	0.993	0.991	0.991	672
Aillour Hill Windfarm Export	0.994	0.995	0.994	0.995	673
Glenkerrie Windfarm Export	0.965	0.967	0.960	0.961	674
Celburn A Windfarm Export	0.999	1.006	1.007	1.013	675
Celburn B Windfarm Export	1.000	1.008	1.008	1.015	676
ittle Raith Windfarm Export	0.999	0.999	0.998	0.998	677
Drone Hill Export	0.990	0.990	0.987	0.987	678
rdoch & Over Enoch WF	0.992	0.993	0.990	0.989	679
earie Law Windfarm Export	1.000	1.000	1.000	1.000	680
Garlaff Landfill	0.997	0.997	0.997	0.997	681
lankend Rig	0.993	0.995	0.993	0.995	683
arlockhart Moor	0.998	0.998	0.997	0.997	684
lantyre Muir	0.997	0.997	0.996	0.996	685
ineddon Law WF Exp	1.000	1.000	1.000	1.000	686
urnhead Bathgate WF Export	1.000	1.000	1.000	1.000	687
Aiddleton Farm	0.996	0.997	0.995	0.996	688

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Neilston Community	0.996	0.996	0.995	0.995	689
Westfield WF	0.998	0.997	0.997	0.997	690
Barmour	0.991	0.992	0.989	0.989	691
Nutberry WF Export	0.993	0.996	0.994	0.995	692
Hunterston WF Export	1.000	1.000	1.000	0.999	693
Polmadie (Waste Energy B)	1.000	1.000	1.000	1.000	694
Carcreugh WF Export	0.997	0.997	0.996	0.996	695
Calder Water WF Export	0.994	0.994	0.993	0.993	696
GlaxoSmithKline Export	1.014	1.019	1.022	1.027	697
Tod Hills WF	0.997	0.997	0.996	0.996	698
Viridor Energy Export	1.000	1.000	1.000	1.000	699
West Browncastle WF Export	0.996	0.996	0.995	0.995	700
Earlseat WF Export	0.998	0.998	0.997	0.997	701
Dungavel WF Export	1.000	1.000	1.000	1.000	702
Ewe Hill WF Export	1.000	1.000	1.000	1.000	703
Langhope Rig WF Export	1.000	1.000	1.000	1.000	704
Muirhall Ext WF Export	0.997	0.998	0.997	0.997	705
Polmadie (Waste Energy A)	1.000	1.000	1.000	1.000	706
Penmansheill	1.000	1.000	1.000	1.000	708
Millerhill Windfarm Export	1.000	1.000	1.000	1.000	TBC
Minsca Windfarm	0.991	0.991	0.989	0.989	MSID 8182
Dalswinton Windfarm	0.995	0.995	0.994	0.994	MSID 8183
Markinch	0.999	0.999	0.998	0.997	MSID 8334
Assel Valley Windfarm	1.000	1.000	1.000	1.000	MSID 8347
Glenchamber Windfarm	1.000	1.000	1.000	1.000	MSID 8732
Harehill Extension	1.000	1.000	1.000	1.000	MSID 8339
Andershaw Windfarm	1.000	1.000	1.000	1.000	MSID 8341
Aries Windfarm	1.000	1.000	1.000	1.000	MSID 8340
Auchrobert Windfarm	1.000	1.000	1.000	1.000	MSID 8348
Harburnhead Windfarm	1.000	1.000	1.000	1.000	MSID 8349
Twenty Shilling Hill	1.000	1.000	1.000	1.000	MSID TBC

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

Annex 6 - A	dden	dum to Annex 2	EHV charge	s											
					SP Dis	stribution - Effective from 1 April 2018	Final new d	lesignated E	HV charges						
Import Inique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (piday)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)	
DCM import 1			EDCM export 1												
DCM import 2			EDCM export 2												
DCM import 3			EDCM export 3												
DCM import 4			EDCM export 4												
DCM import 5			EDCM export 5												
DCM import 6			EDCM export 6												
EDCM import 7			EDCM export 7												
DCM import 8			EDCM export 8												
DCM import 9			EDCM export 9												
DCM import 10			EDCM export 10												
						SP Distribution - Effective from 1 Apri	2018 - Fina	l new desigr	nated EHV lin	ne loss facto	rs				
Import Jnique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import LLF period 1	Import LLF period 2	Import LLF period 3	Import LLF period 4	Import LLF period 5	Export LLF period 1	Export LLF period 2	Export LLF period 3	
EDCM Import 1			EDCM Export 1												ſ
DCM Import 2			EDCM Export 2												
EDCM Import 3			EDCM Export 3												Γ
DCM Import 4			EDCM Export 4												ſ
DCM Import 5			EDCM Export 5												
DCM Import 6			EDCM Export 6												[
DCM Import 7			EDCM Export 7												ľ
DCM Import 8			EDCM Export 8												
EDCM Import 9			EDCM Export 9												
DCM Import 10			EDCM Export 10												Í