

# South Eastern Power Networks plc Use of System Charging Statement

Notice of Charges

Effective from 1 April 2017

Version 2.0



## Version Control

Version	Date	Description of version and any changes made
V1.0	21/12/2015	Final Charges
V2.0	06/11/2016	Annex 5 updated with LLFs submitted in September to Elexon; Annex 6 updated

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 [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).

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

<sup>2</sup> Also known as Loss Adjustment Factors or Line Loss Factors.

### 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 [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).

### Contact details

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

Harminder Basi, Pricing Manager

Email: [distributionpricing@ukpowernetworks.co.uk](mailto:distributionpricing@ukpowernetworks.co.uk)

- 1.12. For enquiries regarding Connection Agreements and changes to maximum capacities please contact:

Connection Agreements Administration

Email: [connection.agreements@ukpowernetworks.co.uk](mailto:connection.agreements@ukpowernetworks.co.uk)

Post: Agreements Manager, UK Power Networks, Energy House, Hazelwick Avenue, Crawley, RH10 1EX

- 1.13. For all other queries please contact General Enquiries on: **0845 601 4516**
- 1.14. You can also find us on Facebook ([www.facebook.com/ukpowernetworks](http://www.facebook.com/ukpowernetworks)) and Twitter ([twitter.com/ukpnnews](http://twitter.com/ukpnnews))

## 2. Charge application and definitions

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

### Supercustomer billing and payment

- 2.4. Supercustomer billing and payment applies to Metering Points registered as NHH metered, NHH unmetered or aggregated HH metered. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Non Half Hourly Distribution Use of System (DUoS) Report' data flow.
- 2.5. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Invoices are reconciled over a period of approximately 14 months to reflect later and more accurate consumption figures.
- 2.6. The charges are applied on the basis of the LLFC assigned to a Meter Point Administration Number (MPAN), and the units consumed within the time periods specified in this statement. These time periods may not necessarily be the same as those indicated by the Time Pattern Regimes (TPRs) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion.

### Supercustomer charges

- 2.7. Supercustomer charges include the following components:
  - a fixed charge, pence/MPAN/day; there will 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 Metering System is:
  - Measurement Class A or B, and settled on Profile Classes (PC) 1 to 8;or
  - Measurement Class F or G;

- will be allocated the relevant charge structure set out in Annex 1.
- 2.9. Measurement Class A charges apply to Exit/Entry Points where NHH metering is used for Settlement.
  - 2.10. Measurement Class B charges apply to Exit Points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 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 and G charges apply to Exit/Entry Points where HH aggregated metering is used for Settlement.
  - 2.12. Identification of the appropriate charge can be made by cross-reference to the LLFC.
  - 2.13. Valid Settlement PC/SSC/Meter Timeswitch Code (MTC) combinations for LLFCs where the Metering System is Measurement Class A and B are detailed in Market Domain Data (MDD).
  - 2.14. Where an MPAN has an invalid Settlement combination, the 'Domestic Unrestricted' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'Domestic Unrestricted' fixed and unit charges will be applied for each invalid SSC/TPR combination.
  - 2.15. The time periods for unit charges where the Metering System is Measurement Class A and B are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spread sheet that accompanies this statement<sup>5</sup>.
  - 2.16. The time periods for unit charges where the Metering System is Measurement Class F and G are set out in the table 'Time Bands for Half Hourly Metered Properties' in Annex 1.
  - 2.17. The 'Domestic Off-Peak' and 'Small Non-Domestic Off-Peak' charges are additional to either an unrestricted or a two-rate charge.

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

- 2.18. Site-specific billing and payment applies to Measurement Class C, D and E Metering Systems settled as HH metered. The site-specific billing and payment

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

<sup>4</sup> Balancing and Settlement Code Procedures on unmetered supplies are available from <https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/>

<sup>5</sup> South Eastern Power Networks - Schedule of charges and other tables – 2017 V1.0.xlsx

approach to Use of System (UoS) billing makes use of HH metering data at premises level received through Settlement.

- 2.19. Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment that may be necessary following the receipt of actual data from the User.
- 2.20. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the Metering System Identifier (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.21. All LLFCs are assigned at our sole discretion. Where an incorrectly applied LLFC is identified, we may at our sole discretion apply the correct LLFC and/or charges.

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

2.22. Site-specific billed charges may include the following components:

- a fixed charge, pence/MPAN/day or pence/MSID/day;
  - a capacity charge, pence/kVA/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
  - an exceeded 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/kVAh, for each unit in excess of the reactive charge threshold.

2.23. Users who wish to supply electricity to customers whose Metering System is Measurement Class C, D or E or CVA will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.

2.24. Measurement Class C, E or CVA charges apply to Exit/Entry Points where HH metering, or an equivalent meter, is used for Settlement purposes.

2.25. Measurement Class D charges apply to Exit Points deemed to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001<sup>6</sup> and where operated in accordance with BSC procedure 520<sup>7</sup>.

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

<sup>7</sup> Balancing and Settlement Code Procedures on unmetered supplies are available from <https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/>



- 2.26. Fixed charges are generally levied on a pence per MPAN/MSID per day basis. Where two or more HH MPANs/MSIDs are located at the same point of connection (as identified in the connection agreement), with the same LLFC, and registered to the same Supplier, only one daily fixed charge will be applied.
- 2.27. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.28. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
- 2.29. Where LV and HV Designated Properties or Designated EHV Properties have more than one point of connection (as identified in the Connection Agreement) then separate charges will be applied to each point of connection.

#### **Time periods for half-hourly metered properties**

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

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

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

#### **Application of capacity charges**

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

#### **Chargeable capacity**

- 2.34. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.35. The MIC/MEC will be agreed with us at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time of connection or later) no reduction in MIC/MEC will be allowed for a 12 month period.
- 2.36. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum demand. The new MIC/MEC will be applied from the start of the next billing period after the date that the request was received.

It should be noted that, where a new lower level is agreed, the original capacity may not be available in the future without the need for network reinforcement and associated charges.

- 2.37. In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by the distributor for the relevant premises' connection. A Customer can seek to agree or vary the MIC and/or MEC by contacting us using the contact details in paragraph 1.12.

### **Exceeded capacity**

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

### **Demand exceeded capacity**

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

- 2.39. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.
- 2.40. This calculation is completed for every half hour and the maximum value from the billing period is applied.

### **Generation exceeded capacity**

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

- 2.41. Only reactive import and reactive export values occurring at times of active export are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values occurring at times of kWh export are summated prior to the calculation above.
- 2.42. This calculation is completed for every half hour and the maximum value from the billing period is applied.

#### Standby capacity for additional security on site

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

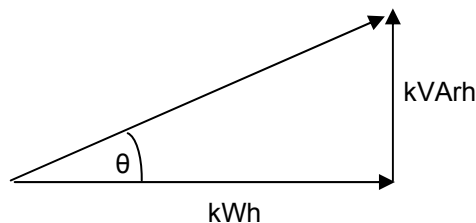
#### Minimum capacity levels

- 2.44. There is no minimum capacity threshold.

#### Application of charges for excess reactive power

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

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



- 2.47. The chargeable reactive power is calculated as follows:

#### Demand chargeable reactive power

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

- 2.48. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.
- 2.49. The square root calculation will be to two decimal places.
- 2.50. This calculation is completed for every half hour and the values summated over the billing period.

#### Generation chargeable reactive power

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

- 2.51. Only reactive import and reactive export values occurring at times of active export are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.
- 2.52. The square root calculation will be to two decimal places.
- 2.53. This calculation is completed for every half hour and the values summated over the billing period.

#### Incorrectly allocated charges

- 2.54. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection and metering information. We are responsible for deciding the voltage of connection while the Supplier determines and provides the metering information.
- 2.55. Generally, the voltage of connection is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected Customer. This is normally established when the MPAN/MSID is created and will include information about whether the MPAN/MSID is for import or

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

### **Generation charges for pre-2005 designated EHV properties**

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

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

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

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

### **Provision of billing data**

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

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

2.66. Metering data shall be provided in an electronic format specified by us from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration Agreement (MRA) data flow D0036 (as agreed with us). The data shall be emailed to [UKPNDuosServices@ukpowernetworks.co.uk](mailto:UKPNDuosServices@ukpowernetworks.co.uk).

2.67. We require details of reactive power imported or exported to be provided for all Measurement Class C and E sites. It is also required for CVA sites and Exempt

Distribution Network boundaries with difference metering. We reserve the right to levy a charge on Users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.9 will be applied to the active consumption in any half hour.

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

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

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

2.69. Licensed Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.

2.70. The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the All-the-way Charge and is dependent upon the voltage of connection of each embedded network to the host DNO's network. The same charge elements will apply as those that match the LDNO's end Customer charges. The relevant charge structures are set out in Annex 4.

2.71. Where a NHH settled MPAN has an invalid Settlement combination, the 'LDNO HV: 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 HV: Domestic Unrestricted' fixed and unit charges will be applied for each invalid SSC/TPR combination.

2.72. The charge structure for Designated EHV Properties embedded in networks operated by LDNOs will be calculated individually using the EDCM. The relevant charge structures are set out in Annex 2.

2.73. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply. <http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx>

### **Licence exempt distribution networks**

2.74. The Electricity and Gas (Internal Market) Regulations 2011 introduced new obligations on owners of licence exempt distribution networks (sometimes called private networks) including a duty to facilitate access to electricity and gas suppliers for customers within those networks.

2.75. When customers (both domestic and commercial) are located within 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.

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

#### **Full settlement metering**

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

2.78. In this approach our UoS charges will be applied to each MPAN.

#### **Difference metering**

2.79. This is where one or more, but not all, customers on a licence exempt distribution network choose their own Supplier for electricity supply to their 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.

2.80. Unless agreed otherwise, our UoS charges will be applied using gross settlement.

#### **Gross settlement**

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

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

- be provided in a text file in the format of the D0036 MRA data flow;
- the text file shall be emailed to [UKPNDuosServices@ukpowernetworks.co.uk](mailto:UKPNDuosServices@ukpowernetworks.co.uk);
- the title of the email should also contain the phrase “gross data for difference metered private network”;
- the text filename shall be formed of the metering reference specified by us followed by a hyphen, followed by a timestamp in the format YYYYMMDDHHMMSS and followed by “.txt”; and



- the title of the email shall contain the metering reference specified by us in place of the Settlement MPAN, i.e. a dummy alphanumeric reference to enable the relating of the gross metered data to a given boundary MPAN.
- 2.83. For the avoidance of doubt, the reduced difference metered measurement data for the boundary connection that is to enter Settlement should continue to be sent using the Settlement MPAN.

#### **Net settlement**

- 2.84. Where one of our MPANs is embedded within a licence exempt distribution network connected to one of our Distribution Systems, and difference metering is in place for Settlement purposes, and we do **not** receive gross measurement data for the boundary MPAN, we will charge the boundary MPAN Supplier based on the net measurement for use of our Distribution System. Charges will also be levied directly to the Supplier of the embedded MPAN(s) connected within the licence exempt distribution network based on the actual data received.
- 2.85. The charges applicable for an embedded MPAN are unit charges only. These will be the same values as those at the voltage of connection to the licence exempt distribution network. The fixed charge and capacity charge, at the agreed MIC/MEC of the boundary MPAN, will be charged to the boundary MPAN Supplier.

### **3. Schedule of charges for use of the distribution system**

- 3.1. Tables listing the charges for the 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 [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).
- 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>8</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>9</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 by 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.
- 4.7. The Elexon website <http://www.elexon.co.uk/reference/technical-operations/losses/> contains more information on LLFs. This page also has links to 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, [www.elexonportal.co.uk](http://www.elexonportal.co.uk). The website contains the LLFs in standard industry data

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<sup>8</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>9</sup> Also referred to as Loss Adjustment Factors.

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 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 nodal costs**

- 5.1. A table which shows the underlying nodal costs used to calculate the current EDCM charges is provided in the 'Schedule of Charges and other tables' document. They can be found in the 'Nodal prices' tab of the published document on our website [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).
- 5.2. These are illustrative of the modelled costs at the time that this statement was published. A new connection will result in changes to current network utilisations, which will then form the basis of future prices: the charge determined in this statement will not necessarily be the charge in subsequent years because of the interaction between new and existing network connections and any other changes made to our Distribution System which may affect charges.

### **Charges for new Designated EHV Properties**

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

### **Charges for amended Designated EHV Properties**

- 5.7. Where an existing Designated EHV Property is modified and energised in the charging year, we may revise the EDCM charges for the modified Designated EHV Property. If revised charges are appropriate, an addendum will be sent to 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. New or existing Designated EHV Property Customers may wish to offer part of their MIC to be interruptible by us (for active network management purposes other than normal planned or unplanned outages) in order to benefit from any reduced UoS charges calculated using the EDCM.

- 5.9. Several options exist in which we may agree for some or the entire MIC to be interruptible. Under the EDCM the applicable demand capacity costs would be based on the MIC minus the capacity subject to interruption.
- 5.10. 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 connections function;
- By emailing [connections.gateway@ukpowernetworks.co.uk](mailto:connections.gateway@ukpowernetworks.co.uk)
  - By telephone to **0845 243 0040**
  - By writing to UK Power Networks, Projects Gateway, Metropolitan House, Darkes Lane, Potters Bar, EN6 1AG

You must make an express statement in your application that you have an interest in some or all of the import capacity being interruptible for active network management purposes.

- 5.11. If you are proactively interested in voluntarily but revocably offering to make some or all of your existing connection's MIC interruptible you should in the first instance contact our Agreements Manager at the address in paragraph 1.12.
- 5.12. A guide to DSM is also available. This provides more information on the type of arrangement that might be put in place should you request to participate in DSM arrangements. This document is available by contacting our Agreements Manager at the address in paragraph 1.12.

## 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;

Size of Unpaid Debt	Late Payment Fee
Up to £999.99	£40.00
£1,000 to £9,999.99	£70.00
£10,000 or more	£100.00

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

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

## 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 <a href="http://www.elexon.co.uk/ELEXON/Documents/trading_arrangements.pdf">www.elexon.co.uk/ELEXON/Documents/trading_arrangements.pdf</a> .
Common Distribution Charging Methodology (CDCM)	The CDCM used for calculating charges to Designated Properties as required by standard licence condition 13A of the electricity distribution licence.
Central Volume Allocation (CVA)	As defined in the BSC.
Customer	A person to whom a User proposes to supply, or for the time being supplies, electricity through an exit point, or from whom, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point;  Or  A person from whom a User purchases, or proposes to purchase, electricity, at an entry point (who may from time to time be supplied with electricity as a Customer of that User (or another electricity supplier) through an exit point).
Designated EHV Properties	As defined in standard condition 13B of the electricity distribution licence.
Designated Properties	As defined in standard condition 13A of the electricity distribution licence.



Term	Definition																																																												
Distributor IDs	<p>These are unique IDs that can be used, with reference to the MPAN, to identify your LDNO. The charges for other network operators can be found on their website.</p> <table border="1" data-bbox="646 369 1380 1478"> <thead> <tr> <th>ID</th> <th>Distribution Service Area</th> <th>Company</th> </tr> </thead> <tbody> <tr><td>10</td><td>East of England</td><td>UK Power Networks</td></tr> <tr><td>11</td><td>East Midlands</td><td>Western Power Distribution</td></tr> <tr><td>12</td><td>London</td><td>UK Power Networks</td></tr> <tr><td>13</td><td>Merseyside and North Wales</td><td>Scottish Power</td></tr> <tr><td>14</td><td>Midlands</td><td>Western Power Distribution</td></tr> <tr><td>15</td><td>Northern</td><td>Northern Powergrid</td></tr> <tr><td>16</td><td>North Western</td><td>Electricity North West</td></tr> <tr><td>17</td><td>Scottish Hydro Electric (and embedded networks in other areas)</td><td>Scottish Hydro Electric Power Distribution plc</td></tr> <tr><td>18</td><td>South Scotland</td><td>Scottish Power</td></tr> <tr><td>19</td><td>South East England</td><td>UK Power Networks</td></tr> <tr><td>20</td><td>Southern Electric (and embedded networks in other areas)</td><td>Southern Electric Power Distribution plc</td></tr> <tr><td>21</td><td>South Wales</td><td>Western Power Distribution</td></tr> <tr><td>22</td><td>South Western</td><td>Western Power Distribution</td></tr> <tr><td>23</td><td>Yorkshire</td><td>Northern Powergrid</td></tr> <tr><td>24</td><td>All</td><td>Independent Power Networks</td></tr> <tr><td>25</td><td>All</td><td>ESP Electricity</td></tr> <tr><td>26</td><td>All</td><td>Energetics Electricity Ltd</td></tr> <tr><td>27</td><td>All</td><td>The Electricity Network Company Ltd</td></tr> <tr><td>29</td><td>All</td><td>Harlaxton Energy Networks</td></tr> </tbody> </table>	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	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
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Distribution Connection and Use of System Agreement (DCUSA)	<p>The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain.</p> <p>It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.</p>																																																												
Distribution Network Operator (DNO)	<p>An electricity distributor that operates one of the 14 distribution services areas and in whose electricity distribution licence the requirements of Section B of the standard conditions of that licence have effect.</p>																																																												
Distribution Services Area	<p>The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.</p>																																																												

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

Term	Definition
Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover cannot 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 <a href="https://www.elexonportal.co.uk/MDDVIEWER">https://www.elexonportal.co.uk/MDDVIEWER</a> .
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	$= \frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$
Low Voltage (LV)	Nominal voltages below 1kV.
Market Domain Data (MDD)	MDD is a central repository of reference data available to all Users involved in Settlement. It is essential to the operation of SVA trading arrangements.
Maximum Export Capacity (MEC)	The MEC of apparent power expressed in kVA that has been agreed can flow through the entry point to the Distribution System from the Customer's installation as specified in the connection agreement.
Maximum Import Capacity (MIC)	The MIC of apparent power expressed in kVA that has been agreed can flow through the exit point from the Distribution System to the Customer's installation as specified in the connection agreement.

Term	Definition
Measurement Class	<p>A classification of metering systems used in the BSC which indicates how consumption is measured, i.e.:</p> <ul style="list-style-type: none"> <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 current transformer;</li> <li>• Measurement class F – half hourly metering equipment at below 100kW premises with current transformer 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)	<p>MTCs are three digit codes allowing suppliers to identify the metering installed in Customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter. Further information can be found in MDD.</p>
Metering Point	<p>The point at which electricity that is exported to or imported from the licensee's Distribution System is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'metering points'.</p>
Metering Point Administration Number (MPAN)	<p>A number relating to a Metering Point under the MRA.</p>
Metering System	<p>Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.</p>
Metering System Identifier (MSID)	<p>MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.</p>
Master Registration Agreement (MRA)	<p>The MRA is an Agreement that sets out terms for the provision of Metering Point Administration Services (MPAS) Registrations, and procedures in relation to the Change of Supplier to any premises/metering point.</p>
Nested Networks	<p>This refers to a situation where there is more than one level of Embedded Network and therefore nested Distribution Systems between LDNOs (e.g. host DNO→primary nested DNO→secondary nested DNO→customer).</p>
Non-Intermittent Generation	<p>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).</p>

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

## Appendix 2 - Guidance notes<sup>11</sup>

### Background

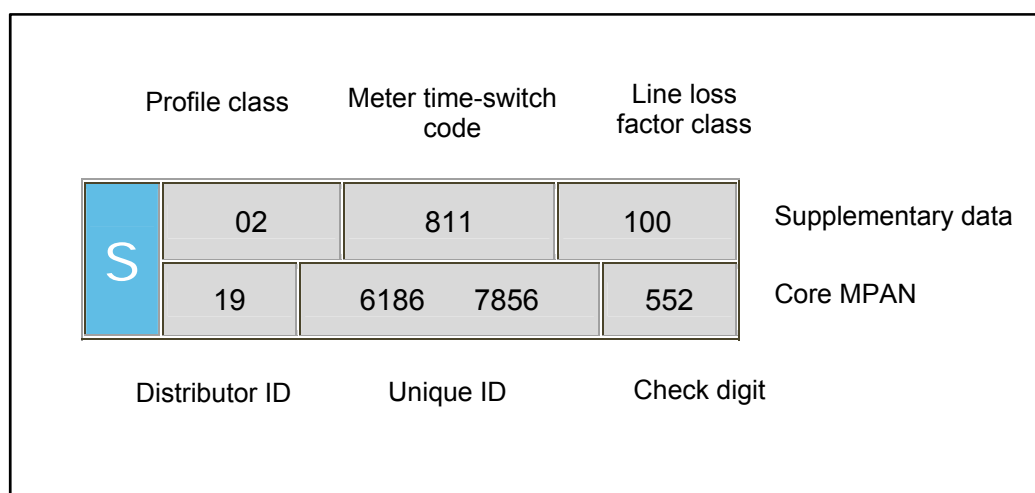
- 1.1. The electricity bill from your Supplier contains an element of charge to cover electricity distribution costs. This distribution charge covers the cost of operating and maintaining a safe and reliable Distribution System that forms the 'wires' that transport electricity between the national transmission 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.
- 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.

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

## 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 South Eastern Power Networks is 19. 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 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 [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).

### **Reducing your charges**

- 1.15. The most effective way to reduce your energy charges is to reduce your consumption by switching off or using more energy efficient appliances. However, there are also other potential opportunities to reduce your distribution charges; for example, it may be beneficial to shift demand or generation to a better time period. Demand use is likely to be cheaper outside peak periods and generation credits more beneficial, although the ability to directly benefit will be linked to the structure of your supply charges.
- 1.16. The calculator mentioned above provides the opportunity to establish a forecast of the change in distribution charges that could be achieved if you are able to change any of the consumption related inputs.

### **Reactive power and reactive power charges**

- 1.17. Reactive power is a separately charged component of connections that are half-hourly metered. Reactive power charges are generally avoidable if 'best practice' design of the properties' electrical installation has been provided in order to maintain a power factor between 0.95 and unity at the Metering Point.
- 1.18. Reactive Power (kVA<sub>rh</sub>) is the difference between working power (active power measured in kW) and total power consumed (apparent power measured in kVA).



Essentially it is a measure of how efficiently electrical power is transported through an electrical installation or a Distribution System.

- 1.19. Power flowing with a power factor of unity results in the most efficient loading of the Distribution System. Power flowing with a power factor of less than 0.95 results in much higher losses in the Distribution System, a need to potentially provide higher capacity electrical equipment and consequently a higher bill for you the consumer. A comparatively small improvement in power factor can bring about a significant reduction in losses since losses are proportional to the square of the current.
- 1.20. Different types of electrical equipment require some 'reactive power' in addition to 'active power' in order to work effectively. Electric motors, transformers and fluorescent lighting, for example, may produce poor power factors due to the nature of their inductive load. However, if good design practice is applied then the poor power factor of appliances can be corrected as near as possible to source. Alternatively poor power factor can be corrected centrally near to the meter.
- 1.21. There are many advantages that can be achieved by correcting poor power factor. These include: reduced energy bills through lower reactive charges, lower capacity charges and reduced power consumption and reduced voltage drop in long cable runs.

#### **Site-specific EDCM charges**

- 1.22. A site classified as a Designated EHV Property is subject to a locational based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use two approved approaches: Long Run Incremental Cost Pricing (LRIC) and Forward Cost Pricing (FCP) and we use the LRIC. The EDCM will apply to Customers connected at Extra High Voltage or connected at High Voltage and metered at a high voltage substation.
- 1.23. EDCM charges are site-specific, reflecting the degree to which the local and higher voltage networks have the capacity to serve more demand or generation without the need to upgrade the electricity infrastructure. The charges also reflect the networks specifically used to deliver the electricity to the site as well as the usage at the site. Generators with non-intermittent output and deemed to be providing beneficial support to our networks may qualify to receive credit.
- 1.24. The charges under the EDCM comprise of the following individual components:
  - a) **Fixed charge** - This charge recovers operational costs associated with those connection assets that are provided for the 'sole' use of the customer. The value of these assets is used as a basis to derive the charge.

b) **Capacity charge (pence/kVA/day)** - This charge comprises the relevant LRIC 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 LRIC 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 LRIC 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 LRIC 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.

- 1.25. Future charge rates may be affected by consumption during the Super-red period. Therefore reducing consumption in the Super-red time period may be beneficial.
- 1.26. **Reactive Power** -The EDCM does not include a separate charge component for any reactive power flows (kVAr) for either demand or generation. However, the EDCM charges do reflect the effect on the network of the customer's power factor, for example unit charges can increase if your site power factor is poor (lower than 0.95). Improving your site's power factor will also reduce the maximum demand (kVA) for the same power consumed in kW thus providing scope to reduce your agreed capacity requirements.

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

### South Eastern Power Networks - Effective from 01/04/2017 - Final LV and HV charges

Time Bands for Half Hourly Metered Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are in UK Clock time		

Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Monday to Friday (Including Bank Holidays) March to October Inclusive		07:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are 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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day	Closed LLFCs
Domestic Unrestricted	300, 301	1	2.409			4.51				
Domestic Two Rate	100, 101, 250	2	2.968	0.049		4.51				
Domestic Off Peak (related MPAN)	251, 283, 296	2	0.219							
Small Non Domestic Unrestricted	320, 324	3	1.398			4.87				
Small Non Domestic Two Rate	120, 124, 270, 274	4	1.837	0.030		4.87				
Small Non Domestic Off Peak (related MPAN)	287, 297	4	0.499							
LV Medium Non-Domestic	480, 484	5-8	1.798	0.021		31.83				
LV Sub Medium Non-Domestic			1.284	0.015		10.32				
HV Medium Non-Domestic			0.885	0.008		80.94				
LV Network Domestic	1	0	18.260	0.245	0.024	4.51				
LV Network Non-Domestic Non-CT	200	0	11.794	0.159	0.016	5.13				
LV HH Metered	550	0	11.190	0.148	0.015	15.06	3.12	0.337	3.12	
LV Sub HH Metered	756	0	9.377	0.120	0.012	10.32	5.17	0.249	5.17	
HV HH Metered	650	0	7.632	0.097	0.008	80.94	3.84	0.219	3.84	
NHH UMS category A	351, 355, 359, 363	8	2.026							
NHH UMS category B	353, 357, 361, 365	1	2.949							
NHH UMS category C	354, 358, 362, 366	1	5.162							
NHH UMS category D	352, 356, 360, 364	1	1.443							
LV UMS (Pseudo HH Metered)	350	0	47.457	0.750	0.559					
LV Generation NHH or Aggregate HH	922, 932, 933	8 or 0	-0.879			0.00				
LV Sub Generation NHH			-0.788			0.00				
LV Generation Intermittent	921	0	-0.879			0.00		0.257		
LV Generation Non-Intermittent	935	0	-9.233	-0.128	-0.015	0.00		0.257		
LV Sub Generation Intermittent	781	0	-0.788			0.00		0.238		
LV Sub Generation Non-Intermittent	782	0	-8.279	-0.114	-0.014	0.00		0.238		
HV Generation Intermittent	926	0	-0.532			38.64		0.190		
HV Generation Non-Intermittent	937	0	-5.608	-0.074	-0.009	38.64		0.190		

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

South Eastern Power Networks - Effective from 01/04/2017 - Final EDCM charges

Time Periods for Designated EHV Properties

Time periods	Super Red Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00
Notes	All 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)
ASHBYS	796	1900091216963	ASHBYS	797	1900091216972	PLACE FARM SOLAR PARK	2.446	8.14	5.66	5.66		830.56	0.05	0.05
ASHGEN	801	1900090978866	ASHGEN	734	1900090978875	BREHON PROPERTY UNIT TRUST	0.410	57.52	1.35	1.35	-0.764	1,725.74	0.05	0.05
AYLESF	868	1900060216613				NPOWER COGEN LTD	0.155	245.58	0.98	0.98				
B&RLTD	771	1900035000482 1900035425153				KELLOGG BROWN & ROOT LIMITED	0.723	171.20	2.98	2.98				
BEDDIN	771	1900070745650 1900070745678				MORGAN STANLEY & CO		2,376.12	1.21	1.21				
BNTLEY	796	1900091343778	BNTLEY	797	1900091343787	BENTLEY ESTATE SOLAR	2.100	8.80	3.60	3.60		879.56	0.05	0.05
BP_OIL	771	1900017426438 1900017426447				BP OIL UK LIMITED	0.648	171.20	1.49	1.49				
BRETSH	871	1900090466576 1900061003393				VIRIDOR WASTE MANAGEMENT LIMITED	0.447	10.09	1.76	1.76				
BRKHST	802	1900090834409	BRKHST	738	1900090834418	BIFFA WASTE SERVICES LIMITED	1.087	1,249.66	1.57	1.57	-1.531	3,712.74	0.05	0.05
BTBRKS	796	1900091199350	BTBRKS	797	1900091199379	BERWICK SOLAR PARK LTD	2.179	13.78	6.68	6.68		306.27	0.05	0.05
CHESDC	ENET	1999000002228 1999000002237				SOUTHERN ELECTRIC POWER DISTRIBUTION		245.58	0.84	0.84				
CLYHLL	796	1900091343750	CLYHLL	797	1900091343769	UPPER CLAYHILL FARM SOLAR (RINGMER)	2.100	7.32	3.60	3.60		732.09	0.05	0.05
CRYENG	872	1900060831692				ROLLS ROYCE-CROYDON ENERGY	0.018	87.73	0.91	0.91				
DIGREA	798	1900091200323 1900091200332				DIGITAL CRAWLEY 1 SARL		1,202.13	2.22	2.22				
DSCRPRK	804	1900091057568	DSCRPRK	797	1900091057559	DARENT POWER LIMITED	0.395	86.12	1.04	1.04	-0.458	1,326.25	0.05	0.05
SHORHM	7104	MSID: 7104				SOUTH COAST POWER LTD	0.020	181.10	1.20	1.20				
EMR_RD	873	1900060413234				EUROPEAN METAL RECYCLING LTD		3,568.55	1.51	1.51				
EUROTU	874	1900060219605				EUROTUNNEL		70,696.50	0.52	0.52				
FRWOOD	796	1900091200388	FRWOOD	797	1900091200397	FRANCIS WOOD SOLAR FARM		14.35	3.28	3.28		717.61	0.05	0.05
GAT_AF	869	1900017427938 1900017427947 1900060576620				GATWICK AIRPORT LIMITED	1.273	2,882.55	4.07	4.07				
GAT_BF	870	1900060690231 1900060690240				GATWICK AIRPORT LIMITED	1.133	491.15	3.80	3.80				
GROVEH	875	1900060225185				ST REGIS PAPER COMPANY LIMITED		322.07	0.90	0.90				
HADLOW	796	1900091217043	HADLOW	797	1900091217052	HADLOW SOLAR PARK LIMITED	6.802	1.36	2.04	2.04		514.62	0.05	0.05

Note: The list of MPANs / MSIDs provided may be incomplete; the DNO reserves the right to apply the listed charges to any other MPANs / MSIDs associated with the site.

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)
HANSTA	876	1900031426056 1900004383769				INFINIS ENERGY SERVICES LIMITED	1.387	1.41	0.80	0.80				
HLLMBY	798	1900091217070	HLLMBY	799	1900091217080	OWL'S HATCH SOLAR PARK LIMITED		7.36	1.64	1.64		593.70	0.05	0.05
HORAMS	796	1900091200068	HORAMS	797	1900091200077	SUNSAVE 31 (HORAM) LIMITED		11.33	16.42	16.42		1,472.84	0.05	0.05
KENTIS	877	1900070122273				KENTISH FLATS WINDFARM	0.362	10.68	0.75	0.75				
KENTI2	796	1900091199519	KENTI2	797	1900091199528	VATTENFALL WIND POWER LTD	0.362	6.48	1.46	1.46		239.10	0.05	0.05
KNGSSPN	DNET	MSID: 1027				UK POWER NETWORKS			1.77	1.77				
KNWLTN	803	1900091091930	KNWLTN	735	1900091091940	SUNSAVE 20 (KNOWLTON) LTD	0.421	51.14	1.80	1.80		961.35	0.05	0.05
LBOURN	796	1900091171267	LBOURN	797	1900091171276	SUNSAVE 18 (LITTLEBOURNE) LIMITED	0.456	3.35	2.99	2.99		502.70	0.05	0.05
LCHEYI	878	1900090194653	LCHEYI	721	1900090194644	LITTLE CHEYNE COURT WIND FARM LIMITED	0.197	1.88	1.84	1.84		243.70	0.05	0.05
LENHAM	808	1900091081560	LENHAM	736	1900091081570	KS SPV 7 LIMITED	2.438	10.02	4.76	4.76		1,002.46	0.05	0.05
LGHTON	796	1900091200138	LGHTON	797	1900091200147	BROOKSIDE SOLAR LIMITED (IMPORT)	2.095	8.02	8.36	8.36		561.58	0.05	0.05
MARSHB	796	1900091310596	MARSHB	797	1900091310601	MARSHBOROUGH	0.410	13.04	2.15	2.15		651.89	0.05	0.05
MLEHLL	796	1900091183402	MLEHLL	797	1900091183411	SUNSAVE 21 (MOLEHILL) LIMITED	0.364	5.04	2.02	2.02		756.51	0.05	0.05
MLMAYN	796	1900091079241	MLMAYN	797	1900091079232	WSE MALMAYNES HALL LIMITED	0.092	1.10	2.23	2.23		529.77	0.05	0.05
MVVRID	771	1900091199138	MVVRID	792	1900091199147	MVV ENVIRONMENT RIDHAM LTD		951.06	0.81	0.81		5,002.58	0.05	0.05
NEWHVN	800	1900090585014	NEWHVN	700	1900090585005	VEOLIA ES SOUTH DOWNS LTD	2.184	39.08	1.31	1.31	-2.535	273.53	0.05	0.05
NP_LAB	771	1900047386380				NPL MANAGEMENT LIMITED	2.065	342.41	4.10	4.10				
NR_3BR	866	1900060219145				NETWORK RAIL INFRASTRUCTURE LTD	1.156	736.73	3.53	3.53				
NR_AFD	851	1900060219377				NETWORK RAIL INFRASTRUCTURE LTD	1.834	491.15	2.35	2.35				
NR_ASH	879	1900070068129				NETWORK RAIL INFRASTRUCTURE LTD	0.760	491.15	3.38	3.38				
NR_BRI	852	1900060218675				NETWORK RAIL INFRASTRUCTURE LTD		491.15	2.16	2.16				
NR_BYF	853	1900060218727				NETWORK RAIL INFRASTRUCTURE LTD	0.294	736.73	2.28	2.28				
NR_CAN	854	1900060218790				NETWORK RAIL INFRASTRUCTURE LTD	0.295	491.15	2.18	2.18				
NR_CRO	855	1900060218815				NETWORK RAIL INFRASTRUCTURE LTD		491.15	1.69	1.69				
NR_DOR	856	1900060219303				NETWORK RAIL INFRASTRUCTURE LTD	2.664	491.15	2.58	2.58				
NR_EAS	857	1900060218912				NETWORK RAIL INFRASTRUCTURE LTD	0.354	491.15	3.22	3.22				
NR_FOK	858	1900060218959				NETWORK RAIL INFRASTRUCTURE LTD	0.888	491.15	2.35	2.35				
NR_HAS	859	1900060218986				NETWORK RAIL INFRASTRUCTURE LTD	0.410	3,297.19	2.13	2.13				
NR_LEA	860	1900060219001				NETWORK RAIL INFRASTRUCTURE LTD	0.236	491.15	2.16	2.16				
NR_MAI	861	1900060219535				NETWORK RAIL INFRASTRUCTURE LTD	2.480	491.15	1.69	1.69				
NR_NOR	862	1900060219891				NETWORK RAIL INFRASTRUCTURE LTD		982.30	1.82	1.82				
NR_QUE	863	1900060219084				NETWORK RAIL INFRASTRUCTURE LTD	0.003	245.58	1.82	1.82				

Note: The list of MPANs / MSIDs provided may be incomplete; the DNO reserves the right to apply the listed charges to any other MPANs / MSIDs associated with the site.

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)
NR_SIT	864	1900060219819 1900060219855				NETWORK RAIL INFRASTRUCTURE LTD	0.202	491.15	1.88	1.88				
NR_THA	865	1900060219720 1900060219794				NETWORK RAIL INFRASTRUCTURE LTD	2.253	491.15	2.94	2.94				
NR_TUN	867	1900060219206				NETWORK RAIL INFRASTRUCTURE LTD	7.479	491.15	3.61	3.61				
OAKLND	796	1900091197414	OAKLND	797	1900091197423	HAYMAKER (OAKLANDS) LTD	2.293	6.67	3.75	3.75		732.74	0.05	0.05
OLDRSF	805	1900091024517	OLDRSF	739	1900091024526	SUNSAVE 9 (OLD RIDES) LTD	0.266	3.23	14.22	14.22		646.80	0.05	0.05
ORCHRD	796	1900091085120	ORCHRD	797	1900091085110	TIPTREE FARM SOLAR PARK	0.202	1.64	2.19	2.19		986.02	0.05	0.05
PADWSF	796	1900091216634	PADWSF	797	1900091216643	PADDOCK WOOD SOLAR FARM LTD	6.828	3.39	2.64	2.64		537.41	0.05	0.05
PFIZER	881	1900060219544				PARKSERVE LIMITED	0.398	2,678.18	2.04	2.04				
POSHWF	796	1900091227307	POSHWF	797	1900091227316	PORT OF SHEERNESS WIND FARM	0.039	16.42	2.28	2.28		673.33	0.05	0.05
PRIORS	796	1900091319942	PRIORS	797	1900091320006	PRIORS BYNE SOLAR FARM	0.109	3.51	4.39	4.39		527.37	0.05	0.05
PSHLEY	796	1900091178954	PSHLEY	797	1900091178963	PRIMROSE SOLAR 10 LIMITED		9.53	2.63	2.63		953.30	0.05	0.05
SENTIV	888	1900090497281 1900090497290 1900090497306 1900090497315				SENTRUM IV LTD		53,718.49	1.39	1.39				
SEVIND	7160	MSID: 7160	SEVIND	7160	MSID: 7160	DISTRICT ENERGY LTD	5.660	1.06	1.29	1.29	-5.967	84.55	0.05	0.05
SMURFI	882	1900060219952				TOWNSEND HOOK LTD	2.115	87.14	0.90	0.90				
SOLEES	796	1900091121257 1900091121275	SOLEES	797	1900091121266;19 00091121284	SOLARCENTURY HOLDINGS LIMITED	0.266	29.77	13.24	13.24		1,250.44	0.05	0.05
STAREN	883	1900060830217				ISLAND GAS LIMITED	0.109	1,016.50	3.86	3.86				
SYCAMR	807	1900091090096	SYCAMR	737	1900091090101	KRIEGER ENERGY SPV1 LIMITED	2.284	45.14	2.64	2.64		1,625.21	0.05	0.05
THAEAR1	850	1900090417081	THAEAR1	733	1900090417160	THANET EARTH Plot 1		308.75				308.75		
THAEAR2	850	1900090417090	THAEAR2	733	1900090417170	THANET EARTH Plot 2		308.75				308.75		
THAEAR4	850	1900090417115	THAEAR4	733	1900090417198	THANET EARTH Plot 4		308.75				308.75		
THAEAR5	850	1900090417124	THAEAR5	733	1900090417203	THANET EARTH Plot 5		308.75				308.75		
THAEAR8	850	1900090417151	THAEAR8	733	1900090417230	THANET EARTH Plot 8		308.75				308.75		
THAEARD	834	1998000000015 1998000000024	THAEARD	718	1998000000033 1998000000042	THANET ENERGY LIMITED (Distributor)		926.26	2.08	2.08		926.26	0.05	0.05
THAMEM	771	1900090872672 1900090872681	THAMEM	792	1900090876979 1900090876988	THAMES WATER UTILITIES LTD (IMPORT)	0.941	3,004.01	2.01	2.01	-0.903	2,253.01	0.05	0.05
THAMES	884	1900016424857				THAMES WATER UTILITIES LTD (IMPORT)	1.117	5,750.09	3.72	3.72				
THANET	7230	MSID: 7230	THANET	7230	MSID: 7230	THANET OFFSHORE WIND LIMITED	0.003	11.31	1.19	1.19		1,190.83	0.05	0.05
THORNE	796	1900091171364	THORNE	797	1900091171373	LIGHTSOURCE SPV 77 LIMITED	3.284	15.20	2.44	2.44		1,580.68	0.05	0.05
TWHK66	771	1900091206176	TWHK66	792	1900091206194	SMURFIT KAPPA UK LTD	3.804	77.82	2.07	2.07	-3.991	93.38	0.05	0.05
WDLNDS	796	1900091207124	WDLNDS	797	1900091207133	WOODLANDS FARM	0.448	17.19	2.58	2.58		2,062.79	0.05	0.05

Note: The list of MPANs / MSIDs provided may be incomplete; the DNO reserves the right to apply the listed charges to any other MPANs / MSIDs associated with the site.

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)
WRGALL	887	1900070394457				FCC ENVIRONMENT	2.343	607.49	0.71	0.71				
WSTWDX	806	1900091086531	WSTWDX	740	1900091086540	SUNSAVE 15 (WESTWOOD) LTD	0.397	10.02	1.79	1.79		1,002.46	0.05	0.05

Note: The list of MPANs / MSIDs provided may be incomplete; the DNO reserves the right to apply the listed charges to any other MPANs / MSIDs associated with the site.

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

South Eastern Power Networks - Effective from 01/04/2017 - Final LV and HV tariffs									
NHH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Unit charge 1 (NHH) p/kWh	Unit charge 2 (NHH) p/kWh	Fixed charge p/MPAN/day				
Notes:	South Eastern Power Networks has no Preserved NHH Tariffs/Additional LLFC classes								

HH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Red/black charge (HH) p/kWh	Amber/yellow charge (HH) p/kWh	Green charge (HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
		0							
Notes:	South Eastern Power Networks has no Preserved HH Tariffs/Additional LLFC classes								



Annex 4 - Charges applied to LDNOs in respect of LV and HV Designated Properties connected in their embedded distribution system

South Eastern Power Networks - Effective from 01/04/2017 - Final LDNO tariffs			
Time Bands for Half Hourly Metered Properties			
Time periods	Red Time Band	Amber Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) All Year	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are in UK Clock time		
Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Monday to Friday (Including Bank Holidays) March to October Inclusive		07:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are 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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO LV: Domestic Unrestricted		1	1.652			3.09			
LDNO LV: Domestic Two Rate		2	2.035	0.034		3.09			
LDNO LV: Domestic Off Peak (related MPAN)		2	0.150						
LDNO LV: Small Non Domestic Unrestricted		3	0.959			3.34			
LDNO LV: Small Non Domestic Two Rate		4	1.259	0.021		3.34			
LDNO LV: Small Non Domestic Off Peak (related MPAN)		4	0.342						
LDNO LV: LV Medium Non-Domestic		5-8	1.233	0.014		21.82			
LDNO LV: LV Network Domestic		0	12.519	0.168	0.016	3.09			
LDNO LV: LV Network Non-Domestic Non-CT		0	8.086	0.109	0.011	3.52			
LDNO LV: LV HH Metered		0	7.672	0.101	0.010	10.33	2.14	0.231	2.14
LDNO LV: NHH UMS category A		8	1.389						
LDNO LV: NHH UMS category B		1	2.022						
LDNO LV: NHH UMS category C		1	3.539						
LDNO LV: NHH UMS category D		1	0.989						
LDNO LV: LV UMS (Pseudo HH Metered)		0	32.538	0.514	0.383				
LDNO LV: LV Generation NHH or Aggregate HH		8 or 0	-0.879			0.00			
LDNO LV: LV Generation Intermittent		0	-0.879			0.00		0.257	
LDNO LV: LV Generation Non-Intermittent		0	-9.233	-0.128	-0.015	0.00		0.257	
LDNO HV: Domestic Unrestricted		1	1.103			2.07			
LDNO HV: Domestic Two Rate		2	1.359	0.022		2.07			
LDNO HV: Domestic Off Peak (related MPAN)		2	0.100						
LDNO HV: Small Non Domestic Unrestricted		3	0.640			2.23			
LDNO HV: Small Non Domestic Two Rate		4	0.841	0.014		2.23			
LDNO HV: Small Non Domestic Off Peak (related MPAN)		4	0.229						
LDNO HV: LV Medium Non-Domestic		5-8	0.823	0.010		14.58			
LDNO HV: LV Network Domestic		0	8.363	0.112	0.011	2.07			
LDNO HV: LV Network Non-Domestic Non-CT		0	5.401	0.073	0.007	2.35			
LDNO HV: LV HH Metered		0	5.125	0.068	0.007	6.90	1.43	0.154	1.43
LDNO HV: LV Sub HH Metered		0	6.487	0.083	0.008	7.14	3.58	0.172	3.58
LDNO HV: HV HH Metered		0	5.936	0.075	0.006	62.96	2.99	0.170	2.99
LDNO HV: NHH UMS category A		8	0.928						
LDNO HV: NHH UMS category B		1	1.351						
LDNO HV: NHH UMS category C		1	2.364						
LDNO HV: NHH UMS category D		1	0.661						
LDNO HV: LV UMS (Pseudo HH Metered)		0	21.735	0.343	0.256				
LDNO HV: LV Generation NHH or Aggregate HH		8 or 0	-0.879			0.00			
LDNO HV: LV Sub Generation NHH		8	-0.788			0.00			
LDNO HV: LV Generation Intermittent		0	-0.879			0.00		0.257	
LDNO HV: LV Generation Non-Intermittent		0	-9.233	-0.128	-0.015	0.00		0.257	
LDNO HV: LV Sub Generation Intermittent		0	-0.788			0.00		0.238	
LDNO HV: LV Sub Generation Non-Intermittent		0	-8.279	-0.114	-0.014	0.00		0.238	
LDNO HV: HV Generation Intermittent		0	-0.532			0.00		0.190	
LDNO HV: HV Generation Non-Intermittent		0	-5.608	-0.074	-0.009	0.00		0.190	
LDNO HVplus: Domestic Unrestricted		1	0.881			1.65			
LDNO HVplus: Domestic Two Rate		2	1.085	0.018		1.65			
LDNO HVplus: Domestic Off Peak (related MPAN)		2	0.080						
LDNO HVplus: Small Non Domestic Unrestricted		3	0.511			1.78			

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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO HVplus: Small Non Domestic Two Rate		4	0.672	0.011		1.78			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		4	0.182						
LDNO HVplus: LV Medium Non-Domestic		5-8	0.657	0.008		11.64			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	0.700	0.008		5.63			
LDNO HVplus: HV Medium Non-Domestic		5-8	0.540	0.005		49.38			
LDNO HVplus: LV Network Domestic		0	6.675	0.090	0.009	1.65			
LDNO HVplus: LV Network Non-Domestic Non-CT		0	4.311	0.058	0.006	1.88			
LDNO HVplus: LV HH Metered		0	4.091	0.054	0.005	5.51	1.14	0.123	1.14
LDNO HVplus: LV Sub HH Metered		0	5.112	0.065	0.007	5.63	2.82	0.136	2.82
LDNO HVplus: HV HH Metered		0	4.656	0.059	0.005	49.38	2.34	0.134	2.34
LDNO HVplus: NHH UMS category A		8	0.741						
LDNO HVplus: NHH UMS category B		1	1.078						
LDNO HVplus: NHH UMS category C		1	1.887						
LDNO HVplus: NHH UMS category D		1	0.527						
LDNO HVplus: LV UMS (Pseudo HH Metered)		0	17.348	0.274	0.204				
LDNO HVplus: LV Generation NHH or Aggregate HH		8	-0.479			0.00			
LDNO HVplus: LV Sub Generation NHH		8	-0.481			0.00			
LDNO HVplus: LV Generation Intermittent		0	-0.479			0.00		0.140	
LDNO HVplus: LV Generation Non-Intermittent		0	-5.033	-0.070	-0.008	0.00		0.140	
LDNO HVplus: LV Sub Generation Intermittent		0	-0.481			0.00		0.145	
LDNO HVplus: LV Sub Generation Non-Intermittent		0	-5.051	-0.070	-0.009	0.00		0.145	
LDNO HVplus: HV Generation Intermittent		0	-0.532			38.64		0.190	
LDNO HVplus: HV Generation Non-Intermittent		0	-5.608	-0.074	-0.009	38.64		0.190	
LDNO EHV: Domestic Unrestricted		1	0.703			1.32			
LDNO EHV: Domestic Two Rate		2	0.866	0.014		1.32			
LDNO EHV: Domestic Off Peak (related MPAN)		2	0.064						
LDNO EHV: Small Non Domestic Unrestricted		3	0.408			1.42			
LDNO EHV: Small Non Domestic Two Rate		4	0.536	0.009		1.42			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)		4	0.146						
LDNO EHV: LV Medium Non-Domestic		5-8	0.525	0.006		9.29			
LDNO EHV: LV Sub Medium Non-Domestic		5-8	0.559	0.007		4.49			
LDNO EHV: HV Medium Non-Domestic		5-8	0.431	0.004		39.43			
LDNO EHV: LV Network Domestic		0	5.330	0.072	0.007	1.32			
LDNO EHV: LV Network Non-Domestic Non-CT		0	3.443	0.046	0.005	1.50			
LDNO EHV: LV HH Metered		0	3.266	0.043	0.004	4.40	0.91	0.098	0.91
LDNO EHV: LV Sub HH Metered		0	4.082	0.052	0.005	4.49	2.25	0.108	2.25
LDNO EHV: HV HH Metered		0	3.718	0.047	0.004	39.43	1.87	0.107	1.87
LDNO EHV: NHH UMS category A		8	0.591						
LDNO EHV: NHH UMS category B		1	0.861						
LDNO EHV: NHH UMS category C		1	1.507						
LDNO EHV: NHH UMS category D		1	0.421						
LDNO EHV: LV UMS (Pseudo HH Metered)		0	13.853	0.219	0.163				
LDNO EHV: LV Generation NHH or Aggregate HH		8	-0.383			0.00			
LDNO EHV: LV Sub Generation NHH		8	-0.384			0.00			
LDNO EHV: LV Generation Intermittent		0	-0.383			0.00		0.112	
LDNO EHV: LV Generation Non-Intermittent		0	-4.019	-0.056	-0.007	0.00		0.112	
LDNO EHV: LV Sub Generation Intermittent		0	-0.384			0.00		0.116	
LDNO EHV: LV Sub Generation Non-Intermittent		0	-4.033	-0.056	-0.007	0.00		0.116	
LDNO EHV: HV Generation Intermittent		0	-0.425			30.86		0.152	
LDNO EHV: HV Generation Non-Intermittent		0	-4.478	-0.059	-0.007	30.86		0.152	
LDNO 132kV/EHV: Domestic Unrestricted		1	0.578			1.08			
LDNO 132kV/EHV: Domestic Two Rate		2	0.712	0.012		1.08			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		2	0.053						
LDNO 132kV/EHV: Small Non Domestic Unrestricted		3	0.335			1.17			
LDNO 132kV/EHV: Small Non Domestic Two Rate		4	0.440	0.007		1.17			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		4	0.120						
LDNO 132kV/EHV: LV Medium Non-Domestic		5-8	0.431	0.005		7.63			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.459	0.005		3.69			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.354	0.003		32.39			

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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO 132kV/EHV: LV Network Domestic		0	4.379	0.059	0.006	1.08			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT		0	2.828	0.038	0.004	1.23			
LDNO 132kV/EHV: LV HH Metered		0	2.683	0.035	0.004	3.61	0.75	0.081	0.75
LDNO 132kV/EHV: LV Sub HH Metered		0	3.353	0.043	0.004	3.69	1.85	0.089	1.85
LDNO 132kV/EHV: HV HH Metered		0	3.054	0.039	0.003	32.39	1.54	0.088	1.54
LDNO 132kV/EHV: NHH UMS category A		8	0.486						
LDNO 132kV/EHV: NHH UMS category B		1	0.707						
LDNO 132kV/EHV: NHH UMS category C		1	1.238						
LDNO 132kV/EHV: NHH UMS category D		1	0.346						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)		0	11.380	0.180	0.134				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH		8	-0.314			0.00			
LDNO 132kV/EHV: LV Sub Generation NHH		8	-0.315			0.00			
LDNO 132kV/EHV: LV Generation Intermittent		0	-0.314			0.00		0.092	
LDNO 132kV/EHV: LV Generation Non-Intermittent		0	-3.302	-0.046	-0.005	0.00		0.092	
LDNO 132kV/EHV: LV Sub Generation Intermittent		0	-0.315			0.00		0.095	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent		0	-3.313	-0.046	-0.006	0.00		0.095	
LDNO 132kV/EHV: HV Generation Intermittent		0	-0.349			25.35		0.125	
LDNO 132kV/EHV: HV Generation Non-Intermittent		0	-3.679	-0.049	-0.006	25.35		0.125	
LDNO 132kV: Domestic Unrestricted		1	0.393			0.74			
LDNO 132kV: Domestic Two Rate		2	0.484	0.008		0.74			
LDNO 132kV: Domestic Off Peak (related MPAN)		2	0.036						
LDNO 132kV: Small Non Domestic Unrestricted		3	0.228			0.79			
LDNO 132kV: Small Non Domestic Two Rate		4	0.300	0.005		0.79			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		4	0.081						
LDNO 132kV: LV Medium Non-Domestic		5-8	0.293	0.003		5.19			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.312	0.004		2.51			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.241	0.002		22.03			
LDNO 132kV: LV Network Domestic		0	2.978	0.040	0.004	0.74			
LDNO 132kV: LV Network Non-Domestic Non-CT		0	1.923	0.026	0.003	0.84			
LDNO 132kV: LV HH Metered		0	1.825	0.024	0.002	2.46	0.51	0.055	0.51
LDNO 132kV: LV Sub HH Metered		0	2.280	0.029	0.003	2.51	1.26	0.061	1.26
LDNO 132kV: HV HH Metered		0	2.077	0.026	0.002	22.03	1.05	0.060	1.05
LDNO 132kV: NHH UMS category A		8	0.330						
LDNO 132kV: NHH UMS category B		1	0.481						
LDNO 132kV: NHH UMS category C		1	0.842						
LDNO 132kV: NHH UMS category D		1	0.235						
LDNO 132kV: LV UMS (Pseudo HH Metered)		0	7.739	0.122	0.091				
LDNO 132kV: LV Generation NHH or Aggregate HH		8	-0.214			0.00			
LDNO 132kV: LV Sub Generation NHH		8	-0.214			0.00			
LDNO 132kV: LV Generation Intermittent		0	-0.214			0.00		0.062	
LDNO 132kV: LV Generation Non-Intermittent		0	-2.245	-0.031	-0.004	0.00		0.062	
LDNO 132kV: LV Sub Generation Intermittent		0	-0.214			0.00		0.065	
LDNO 132kV: LV Sub Generation Non-Intermittent		0	-2.253	-0.031	-0.004	0.00		0.065	
LDNO 132kV: HV Generation Intermittent		0	-0.237			17.24		0.085	
LDNO 132kV: HV Generation Non-Intermittent		0	-2.502	-0.033	-0.004	17.24		0.085	
LDNO 0000: Domestic Unrestricted		1	0.105			0.20			
LDNO 0000: Domestic Two Rate		2	0.130	0.002		0.20			
LDNO 0000: Domestic Off Peak (related MPAN)		2	0.010						
LDNO 0000: Small Non Domestic Unrestricted		3	0.061			0.21			
LDNO 0000: Small Non Domestic Two Rate		4	0.080	0.001		0.21			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)		4	0.022						
LDNO 0000: LV Medium Non-Domestic		5-8	0.079	0.001		1.39			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	0.084	0.001		0.67			
LDNO 0000: HV Medium Non-Domestic		5-8	0.065	0.001		5.91			
LDNO 0000: LV Network Domestic		0	0.798	0.011	0.001	0.20			
LDNO 0000: LV Network Non-Domestic Non-CT		0	0.516	0.007	0.001	0.22			
LDNO 0000: LV HH Metered		0	0.489	0.006	0.001	0.66	0.14	0.015	0.14
LDNO 0000: LV Sub HH Metered		0	0.611	0.008	0.001	0.67	0.34	0.016	0.34
LDNO 0000: HV HH Metered		0	0.557	0.007	0.001	5.91	0.28	0.016	0.28

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	Reactive power charge p/kVAh	Exceeded capacity charge p/kVA/day
LDNO 0000: NHH UMS category A		8	0.089						
LDNO 0000: NHH UMS category B		1	0.129						
LDNO 0000: NHH UMS category C		1	0.226						
LDNO 0000: NHH UMS category D		1	0.063						
LDNO 0000: LV UMS (Pseudo HH Metered)		0	2.075	0.033	0.024				
LDNO 0000: LV Generation NHH or Aggregate HH		8	-0.057			0.00			
LDNO 0000: LV Sub Generation NHH		8	-0.057			0.00			
LDNO 0000: LV Generation Intermittent		0	-0.057			0.00		0.017	
LDNO 0000: LV Generation Non-Intermittent		0	-0.602	-0.008	-0.001	0.00		0.017	
LDNO 0000: LV Sub Generation Intermittent		0	-0.057			0.00		0.017	
LDNO 0000: LV Sub Generation Non-Intermittent		0	-0.604	-0.008	-0.001	0.00		0.017	
LDNO 0000: HV Generation Intermittent		0	-0.064			4.62		0.023	
LDNO 0000: HV Generation Non-Intermittent		0	-0.671	-0.009	-0.001	4.62		0.023	

## Annex 5 – Line Loss Factors

These line loss factors are illustrative based on the latest calculated values and are published in good faith. However, the line loss factors that are approved by the BSC Panel for the applicable year and consequently published on the Elexon website will take precedence and be used in Settlement if they differ from these values.

South Eastern Power Networks - Illustrative LLFs for year beginning 01/04/2017					
Time periods	Period 1	Period 2	Period 3	Period 4	Period 5
	Winter Peak	Summer Peak	Winter Shoulder	Night	Other
Monday to Friday November to February	16:00 - 19:59		07:00 - 15:59		
Monday to Friday June to August		07:00 - 19:59			
Monday to Friday March			07:00 - 19:59		
All Year				00:00 - 06:59	All Other Times
Notes	All times are in UK Clock time				

Generic demand and generation LLFs						
Metered voltage, respective periods and associated LLFCs						
Metered voltage	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
Low-voltage network	1.096	1.070	1.079	1.058	1.085	1, 100, 101, 120, 124, 200, 250, 251, 270, 274, 283, 287, 296, 297, 300, 301, 320, 324, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 480, 484, 550, 921, 922, 932, 933, 935
Low-voltage substation	1.072	1.055	1.064	1.050	1.057	756, 781, 782
High-voltage network	1.052	1.038	1.045	1.032	1.040	650, 926, 937
High-voltage substation	1.053	1.039	1.047	1.033	1.041	771, 791, 792
33kV generic	1.016	1.013	1.014	1.012	1.013	796, 797
132kV generic	1.005	1.004	1.005	1.004	1.004	798, 799

EHV site specific LLFs						
Demand						
LLFC	Site	Period 1	Period 2	Period 3	Period 4	Period 5
800	Newhaven ERF - Import	1.042	1.032	1.036	1.034	1.036
801	Ash Generation - IMPORT	1.019	1.012	1.015	1.013	1.012
802	Brookhurst Wood - IMPORT	1.047	1.050	1.049	1.034	1.049
803	Knowlton Solar - IMPORT	1.084	1.074	1.081	1.076	1.080
804	Discovery Park - IMPORT	1.037	1.019	1.020	1.023	1.021
805	Old Rides Solar - IMPORT	1.071	1.039	1.062	1.047	1.052
806	Westwood Cross Solar - IMPORT	1.025	1.021	1.023	1.022	1.022
807	Sycamore Farm - IMPORT	1.038	1.019	1.032	1.028	1.033
808	Lenham Solar - IMPORT	1.110	1.075	1.092	1.085	1.096
809	Place Farm (ASHBYS) - IMPORT	1.067	1.056	1.062	1.058	1.064
810	Batbrooks Farm - IMPORT	1.055	1.033	1.050	1.041	1.050
811	Francis Wood Solar - IMPORT	1.100	1.101	1.100	1.099	1.099
812	Hadlow Solar Park - IMPORT	1.041	1.030	1.038	1.026	1.032
813	Owls Hatch (HLLMBY) - IMPORT	1.004	1.002	1.003	1.002	1.003
814	Kentish Flats Ext. - IMPORT	1.063	1.061	1.062	1.061	1.062
815	Littlebourne Solar - IMPORT	1.009	1.008	1.009	1.008	1.009
816	Laughton Level Solar - IMPORT	1.069	1.051	1.063	1.058	1.065

LLFC	Site	Period 1	Period 2	Period 3	Period 4	Period 5
817	Malmaynes Hall Solar - IMPORT	1.021	1.016	1.021	1.016	1.013
818	Manston Thome Solar - IMPORT	1.033	1.028	1.031	1.029	1.031
819	Molehill Farm - IMPORT	1.010	1.008	1.010	1.009	1.010
820	Oakland Farm - IMPORT	1.137	1.039	1.048	1.046	1.050
822	Paddock Wood Solar - IMPORT	1.049	1.030	1.044	1.038	1.045
823	South Lees Solar Farm - IMPORT	1.049	1.049	1.046	1.044	1.042
824	Horam Solar - IMPORT	1.091	1.068	1.074	1.060	1.028
825	Woodlands Farm - IMPORT	1.010	1.010	1.010	1.010	1.010
826	Pashley Farm - IMPORT	1.014	1.012	1.013	1.012	1.012
850	Thanet Earth - IMPORT	1.027	1.015	1.027	1.022	1.026
851	NR Ashford Traction	1.024	1.016	1.019	1.015	1.018
852	NR Brighton Traction	1.011	1.007	1.015	1.007	1.008
853	NR Byfleet Traction	1.024	1.016	1.019	1.012	1.019
854	NR Canterbury Traction	1.007	1.003	1.005	1.004	1.004
855	NR Croydon Traction	1.013	1.010	1.011	1.009	1.011
856	NR Dormansland Traction	1.030	1.019	1.025	1.021	1.023
857	NR Eastbourne Traction	1.014	1.010	1.014	1.010	1.012
858	NR Folkestone Traction	1.014	1.011	1.011	1.010	1.011
859	NR Hastings Traction	1.016	1.013	1.014	1.012	1.013
860	NR Leatherhead Traction	1.023	1.016	1.023	1.013	1.017
861	NR Maidstone Traction	1.024	1.016	1.022	1.013	1.022
862	NR Northfleet Traction	1.009	1.006	1.008	1.006	1.007
863	NR Queensborough Traction	1.070	1.075	1.070	1.069	1.069
864	NR Sittingbourne Traction	1.012	1.009	1.010	1.009	1.010
865	NR Thanet Traction	1.032	1.020	1.026	1.017	1.027
866	NR Three Bridges Traction	1.026	1.019	1.022	1.011	1.020
867	NR Tunbridge Wells Traction	1.035	1.026	1.029	1.016	1.022
868	Aylesford Newsprint - IMPORT	1.009	1.008	1.008	1.008	1.008
869	Gatwick Airport AF Supply	1.037	1.028	1.031	1.027	1.029
870	Gatwick Airport BF Supply	1.033	1.018	1.042	1.018	1.012
871	BWM Shelford - IMPORT	1.219	1.218	1.219	1.218	1.219
872	Croydon Energy - IMPORT	1.003	1.002	1.002	1.002	1.002
873	EMR Maidstone	1.616	1.616	1.616	1.617	1.617
874	Eurotunnel	1.018	1.007	1.017	1.011	1.010
875	Grovehurst Energy - IMPORT	1.021	1.021	1.022	1.021	1.021
876	HWM Stangate Quarry - IMPORT	1.026	1.017	1.022	1.020	1.018
877	Kentish Flats W. Farm - IMPORT	1.025	1.023	1.022	1.022	1.032
878	Little Cheyne W. Farm - IMPORT	1.065	1.054	1.058	1.055	1.066
879	NR Ashburton Grid	1.011	1.010	1.011	1.008	1.010
881	Pfizer - IMPORT	1.022	1.017	1.023	1.017	1.020
882	Smurfit Townsend Hook - IMPORT	1.026	1.021	1.024	1.022	1.024
883	Star Storrington - IMPORT	1.071	1.054	1.062	1.057	1.063
884	Thames Water, Hampton - IMPORT	1.013	1.012	1.012	1.010	1.012
887	WRG Allington - IMPORT	1.096	1.077	1.095	1.080	1.090
888	SENTRUM, WOKING - IMPORT	1.011	1.010	1.016	1.012	1.006
889	PROLOGIS, BEDDINGTON - IMPORT	1.013	1.020	1.021	1.020	1.022

EHV site specific LLFs						
Generation						
LLFC	Site	Period 1	Period 2	Period 3	Period 4	Period 5
700	Newhaven ERF - EXPORT	1.023	1.014	1.021	1.017	1.020
701	Horam Solar - EXPORT	1.062	1.030	1.039	1.033	1.049
702	Woodlands Farm - EXPORT	0.999	0.992	0.995	0.998	0.994
703	Pashley Farm - EXPORT	1.013	1.002	1.004	1.006	1.001
704	Discovery Park - EXPORT	1.021	1.009	1.008	1.009	1.015
721	Little Cheyne W. Farm - EXPORT	0.996	0.993	0.996	0.994	0.995
722	Kentish Flats W. Farm - EXPORT	1.000	0.998	0.999	0.998	0.999
723	Smurfit Townsend Hook - EXPORT	0.997	0.995	0.997	0.995	0.997
724	Pfizer - EXPORT	1.016	1.013	1.014	1.012	1.013
725	Aylesford Newsprint - EXPORT	1.006	1.001	1.000	1.025	1.000
726	BWM Shelford - EXPORT	0.998	1.000	1.000	0.999	1.009
727	Grovehurst Energy - EXPORT	1.001	1.000	1.000	1.001	1.001
728	HWM Stangate Quarry - EXPORT	0.950	0.941	0.947	0.940	0.947
729	Star Storrington - EXPORT	1.016	1.013	1.014	1.012	1.013
730	Croydon Energy - EXPORT	1.003	0.999	1.002	1.002	1.002
731	WRG Allington - EXPORT	1.039	1.016	1.033	1.022	1.033
732	Thames Water, Hampton - EXPORT	1.016	1.013	1.014	1.012	1.013
733	Thanet Earth - EXPORT	1.013	1.004	1.006	1.004	1.006
734	Ash Generation - EXPORT	1.003	0.994	0.998	1.003	0.999
735	Knowlton Solar - EXPORT	1.020	1.005	1.008	1.012	1.013
736	Lenham Solar - EXPORT	1.036	1.025	1.030	1.025	1.043
737	Sycamore Farm - EXPORT	1.013	1.001	1.004	1.008	1.005
738	Brookhurst Wood - EXPORT	0.941	0.933	0.941	0.924	0.924
739	Old Rides Solar - EXPORT	1.041	1.015	1.022	1.024	1.030
740	Westwood Cross Solar - EXPORT	1.011	1.004	1.006	1.006	1.010
741	Place Farm (ASHBYS) - EXPORT	1.027	1.017	1.019	1.014	1.025
742	Batbrooks Farm - EXPORT	1.027	1.014	1.020	1.016	1.025
743	Francis Wood Solar - EXPORT	1.005	1.003	1.002	1.002	1.006
744	Hadlow Park Solar - EXPORT	1.019	1.013	1.013	1.012	1.017
745	Owls Hatch (HLLMBY) - EXPORT	1.002	0.999	1.000	1.001	1.001
746	Kentish Flats Ext. - EXPORT	1.003	1.002	0.998	1.000	1.002
747	Littlebourne Solar - EXPORT	1.006	0.998	1.000	1.002	1.001
748	Laughton Level Solar - EXPORT	1.022	1.015	1.021	1.012	1.025
749	Malmaynes Hall Solar - EXPORT	1.008	0.989	0.995	1.005	0.992
750	Manston Thorne Solar - EXPORT	1.008	1.006	1.008	1.005	1.012
751	Molehill Farm - EXPORT	0.995	1.001	1.002	1.002	1.003
752	Oakland Farm - EXPORT	1.032	1.016	1.018	1.014	1.025
754	Paddock Wood Solar - EXPORT	1.021	1.015	1.015	1.013	1.018
755	South Lees Solar Farm - EXPORT	1.016	0.993	1.000	1.014	1.000

CVA site specific LLFs						
MSID	Site	Period 1	Period 2	Period 3	Period 4	Period 5
1032	Dartford _J DSCP	1.016	1.014	1.015	1.013	1.012
1630	Bromley DSCP	1.003	1.003	1.003	1.002	1.003
7104	Shoreham Power Station - Export	1.002	1.001	1.002	1.001	1.002
7105	Shoreham Power Station - Import	1.052	1.038	1.045	1.032	1.040
7160	Sevington District Energy	1.053	1.039	1.047	1.033	1.041



Annex 6 - New Designated EHV Properties. Addendum to Schedule of Charges for use of the Distribution System by Designated EHV Properties (including LDNOs with Designated EHV Properties/end-users).

South Eastern Power Networks - Effective from 01/04/2017 - Final new designated EHV charges														
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)
BNTLY2	796	1900091463646	BNTLY2	797	1900091463655	LIGHTSOURCE SPV208 LIMITED	2.100	2.88	2.78	2.78		242.31	0.05	0.05
BOBBNG	796	1900091395508	BOBBNG	797	1900091395517	BOBBING SOLAR LIMITED	0.202	4.05	1.42	1.42		809.32	0.05	0.05
CAPELG	796	1900091353298	CAPELG	797	1900091353303	CAPEL GRANGE SOLAR LIMITED (CGSEL)	6.817	0.43	2.55	2.55		565.02	0.05	0.05
FORDSF	796	1900091361962	FORDSF	797	1900091361971	FORD G2 SOLAR FARM LIMITED	0.110	9.30	6.45	6.45		531.43	0.05	0.05
GUSTON	796	1900091338040	GUSTON	797	1900091338059	GUSTON C SOLAR FARM LIMITED	0.421	12.24	1.70	1.70		1,223.56	0.05	0.05
QUADBS	796	1900091452468	QUADBS	797	1900091452477	QUADRANT	0.038	122.72	1.09	1.09	-0.066	122.72	0.05	0.05
SELLSF	796	1900091360950	SELLSF	797	1900091360969	SELLINDGE SOLAR LIMITED	0.248	5.35	1.56	1.56		535.25	0.05	0.05
SHEPHM	796	1900091420128	SHEPHM	797	1900091420137	SHEPHAM WIND FARM	0.187	35.85	1.59	1.59		1,344.24	0.05	0.05
TONGSF	796	1900091363000	TONGSF	797	1900091363019	MTS TONGE SOLAR LTD	0.229	25.14	2.82	2.82		1,954.98	0.05	0.05
WLBEES	796	1900091315229	WLBEES	797	1900091315238	WILBEES	1.251	1.46	12.45	12.45		243.77	0.05	0.05