

# South Eastern Power Networks plc Use of System Charging Statement

**Notice of Charges**

**Effective from 1 April 2021**

Version 1.4



## Version Control

Version	Date	Description of version and any changes made
V1.0	19/12/2019	Final Charges
V1.1	01/04/2020	Updates to LLFCs and tariff names in Annex 2 New site added to Annex 6
V1.2	01/07/2020	Section 10 added for Charges for Eligible Electricity Storage Facilities Update to the Incorrectly allocated charges section, para 2.52 Storage Facility definition added to the glossary Appendix 3 added for Electricity Storage Certificate Annexes 1, 4, & 7 updated with new storage import tariffs
V1.3	20/10/2020	Annexes 5 & 6 populated with post audit losses subject to BSC Panel approval
V1.4	07/04/2021	Changes for implementation of DCP 268 and Targeted Charging Review, resulting in updates to LLFCs in Annex 1, Annex 4 and Annex 7 New sites added to Annex 6

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 Line Loss 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 following methodologies as per the Distribution Connection and Use of System Agreement (DCUSA)<sup>3</sup>:
  - Common Distribution Charging Methodology (CDCM) for Low Voltage (LV) and High Voltage (HV) Designated Properties as per DCUSA Schedule 16;
  - Extra High Voltage (EHV) Distribution Charging Methodology (EDCM) for Designated EHV Properties as per DCUSA Schedule 18;
  - Price Control Disaggregation Model (PCDM) for Discount Percentages used to calculate the LDNO Use of System charges in the CDCM and EDCM as per DCUSA Schedule 29.
- 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.

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

<sup>2</sup> Known as adjustment factors in the Distribution Licence and commonly referred to as Loss Adjustment Factors. The schedule of Line Loss Factors will be provided in a revised statement shortly after the Line Loss Factors for the relevant year have been successfully audited by Elexon.

<sup>3</sup> The Distribution and Connection Use of System Agreement (DCUSA) available from <https://www.dcusa.co.uk/dcusa-document/>

- 1.7. The annexes that form part of this statement are also available in spreadsheet format<sup>4</sup>. 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).

### 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 relevant 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 (with the exception of updates to Annex 6; New or Amended EHV Sites which will be published as an addendum). 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:

Mark James, 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

For enquiries regarding certification of storage facilities, please contact:

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

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

- 1.13. For all other queries please contact our General Enquiries on: 0800 029 4285
- 1.14. You can also find us on Facebook [www.facebook.com/ukpowernetworks](https://www.facebook.com/ukpowernetworks) and Twitter [www.twitter.com/UKPowerNetworks](https://www.twitter.com/UKPowerNetworks).

<sup>4</sup> South Eastern Power Networks- Schedule of charges and other tables – 2021 V1.4.xlsx

## 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.

### The supercustomer and site-specific billing approaches

- 2.2. We utilise two billing approaches depending on the type of metering data received:
- a) The 'Supercustomer' approach for Customers for whom we receive aggregated consumption data through Settlement; and
  - b) The 'Site-specific' approach for Customers for whom we receive site-specific consumption data through Settlement.
- 2.3. We receive aggregated consumption data through Settlement for:
- a) Domestic and non-domestic Customers for whom Non-Half Hourly (NHH) metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class A);
  - b) Customers which are unmetered and are not settled as pseudo Half Hourly (HH) metered (i.e. Customers with MPANs which are registered to Measurement Class B);
  - c) Domestic Customers for whom HH metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class F); and
  - d) Non-domestic Customers for whom HH metering data is used in Settlement and which have whole current (WC) metering (i.e. Customers with MPANs which are registered to Measurement Class G).
- 2.4. We receive site specific consumption data through Settlement for:
- a) Non-domestic Customers for whom HH metering data is used in Settlement and which have current transformer (CT) metering (i.e. Customers with MPANs which are registered to measurement class C or E); and
  - b) Customers which are unmetered and settled as pseudo HH metered (i.e. Customers with MPANs which are registered to measurement class D).

### Supercustomer billing and payment

- 2.5. The Supercustomer approach makes use of aggregated data obtained from Suppliers using the 'Aggregated Distribution Use of System (DUoS) Report' data flow.
- 2.6. 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.

- 2.7. The charges are applied on the basis of the LLFC assigned to the MPAN, and the units (or kWhs) consumed within the time periods specified in Annex 1. These time periods are not the same as those indicated by the Time Pattern Regime (TPR) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' if you believe the allocated LLFC or tariff is incorrect.

### ***Supercustomer charges***

- 2.8. 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/kilowatt-hour (kWh); three unit charges will apply depending on the time of day and the type of tariff for which the MPAN is registered.
- 2.9. Users who wish to supply electricity to Customers for whom we receive aggregated data through Settlement (see paragraph 2.3) will be allocated the relevant charge structure set out in Annex 1.
- 2.10. Identification of the appropriate charge can be made by cross-reference to the LLFC.
- 2.11. Valid Settlement Profile Class (PC)/Standard Settlement Configuration (SSC)/Meter Timeswitch Code (MTC) combinations for LLFCs where the Metering System is Measurement Class A or B are detailed in Market Domain Data (MDD).
- 2.12. Where an MPAN has an invalid Settlement combination, the 'Domestic Aggregated' 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 Aggregated' fixed and unit charges will be applied for each invalid SSC/TPR combination.
- 2.13. The 'Domestic Aggregated (Related MPAN)' and 'Non-Domestic Aggregated (Related MPAN)' charges are supplementary to their respective primary MPAN charge.

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

- 2.14. The site-specific billing and payment approach makes use of HH metering data at premises level received through Settlement.

- 2.15. 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.
- 2.16. The charges are applied on the basis of the LLFCs assigned to the MPAN (or the (MSID) for Central Volume Allocation (CVA) sites), and the units consumed within the time periods specified in this statement.
- 2.17. All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging methodology or elsewhere in this statement. Please refer to the section 'Incorrectly allocated charges' if you believe the allocated LLFC or tariff is incorrect.

***Site-specific billed charges***

- 2.18. Site-specific billed charges for LV and HV Designated Properties may include the following components:
- a fixed charge, pence/MPAN/day or pence/MSID/day;
  - a capacity charge, pence/kilovolt-ampere (kVA)/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
  - an excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
  - three unit charges, pence/kWh, depending on the time of day and the type of tariff for which the MPAN is registered; and
  - a reactive power charge, pence/kilovolt-ampere reactive hour (kVArh), for each unit in excess of the reactive charge threshold.
- 2.19. Users who wish to supply electricity to Customers for whom we receive site-specific data through Settlement (see paragraph 2.4) will be allocated the relevant charge structure dependent upon the voltage and location of the Metering Point.
- 2.20. 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.
- 2.21. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.22. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.



- 2.23. 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***

- 2.24. The time periods for the application of unit charges to metered LV and HV Designated Properties are detailed in Annex 1. We have not issued a notice to change the time bands.
- 2.25. The time periods for the application of unit charges to Unmetered Supply Exit Points are detailed in Annex 1. We have not issued a notice to change the time bands.
- 2.26. The time periods for the application of unit charges to Designated EHV Properties are detailed in Annex 2. We have not issued a notice to change the time bands.

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

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

#### ***Chargeable capacity***

- 2.28. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.29. 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.
- 2.30. Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where the MIC/MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum import and/or export demand respectively. 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.
- 2.31. In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC/MEC that we have previously agreed for the relevant premises' connection. A Customer can seek to agree or vary the MIC/MEC by contacting us using the contact details in section 1.12.

#### ***Exceeded capacity***

- 2.32. Where a Customer takes additional unauthorised capacity over and above the MIC/MEC, the excess will be classed as exceeded capacity. The exceeded portion of the capacity will be charged at the excess capacity charge p/kVA/day rate, based

on the difference between the MIC/MEC and the actual capacity used. This will be charged for the full duration of the billing period in which the breach occurs.

***Demand exceeded capacity***

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

Where:

AI = Active import (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MIC = Maximum import capacity (kVA)

2.33. Only reactive import and reactive export values occurring at times of active import are used in the calculation. Where data for two or more MPANs is aggregated for billing purposes the HH consumption values are summated prior to the calculation above.

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

***Generation exceeded capacity***

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

MEC = Maximum export capacity (kVA)

2.35. Only reactive import and reactive export values occurring at times of active export are used in the calculation. 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.

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

***Standby capacity for additional security on site***

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

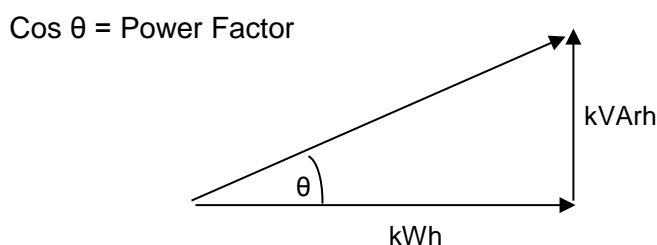
**Minimum capacity levels**

2.38. There is no minimum capacity threshold.

**Application of charges for excess reactive power**

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

2.40. Power Factor is calculated as follows:



2.41. 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)

2.42. 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.

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

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

### **Generation chargeable reactive power**

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

Where:

AE = Active export (kWh)

RI = Reactive import (kVArh)

RE = Reactive export (kVArh)

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

### **Incorrectly allocated charges**

- 2.48. It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection, import/export details including multiple MPANs, metering information and, for some tariffs, the metering location.
- 2.49. We are responsible for deciding the voltage of connection. Generally this is determined by where the metering is located and where responsibility for the electrical equipment transfers from us to the connected Customer.
- 2.50. The Supplier determines and provides us with the metering information and data to enable us to allocate charges. The metering information and data is likely to change over time if, for example, a Supplier changes an MPAN from non-domestic to domestic following a change of use at the premises. When we are notified this has happened we will change the allocation of charges accordingly.
- 2.51. If it has been identified that a charge may have been incorrectly allocated due to the metering information and/or data then a request for investigation should be made to the Supplier.
- 2.52. Where it has been identified that a charge may have been incorrectly allocated due to the voltage of connection, import/export details or metering location or a connection may be eligible for a Storage Facility or LV Substation tariff then a request to investigate the applicable charges should be made to us. Requests from

persons other than the Customer or the current Supplier must be accompanied by a Letter of Authority from the Customer; the current Supplier must also acknowledge that they are aware a request has been made. Any request must be supported by an explanation of why it is believed that the current charge should be changed, along with supporting information including, where appropriate, photographs of metering positions or system diagrams. Any request to change the current charge that also includes a request for backdating must include justification as to why it is considered appropriate to backdate the change.

- 2.53. An administration charge (covering our reasonable costs) may be made if a technical assessment or site visit is required, but we will not apply any charge where we agree to the change request.
- 2.54. Where we agree that the current LLFC/charge should be changed, we will then allocate the appropriate set of charges for the connection. Any adjustment will be applied from the date of the request, back to either the date of the incorrect allocation, or; up to the maximum period specified by the Limitation Act (1980) in England and Wales, which covers a six year period from the date of request; whichever is the shorter.
- 2.55. Any credit or additional charge will be issued to the relevant Supplier(s) effective during the period of the change.
- 2.56. Should we reject the request (as per paragraph 2.52) a justification will be provided to the requesting party. We shall not unreasonably withhold or delay any decision on a request to change the charges applied and would expect to confirm our position on the request within three months of the date of request.

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

- 2.57. Designated EHV Properties that were connected to the Distribution System under a pre-2005 connection charging policy are eligible for exemption from Use of System (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 UoS 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.

- 2.58. Furthermore, if an exempt Customer makes an alteration to its export requirement then the Customer may be liable to be charged for the additional capacity required for 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**

- 2.59. Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or 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.
- 2.60. The metering data shall identify the amount of energy conveyed across the Metering System in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to us shall be consistent with that received through the metering equipment installed.
- 2.61. Metering data shall be provided in an electronic format specified by us from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration Agreement (MRA) data flow D0036<sup>5</sup> (as agreed with us). The data shall be emailed to [UKPNDuosServices@ukpowernetworks.co.uk](mailto:UKPNDuosServices@ukpowernetworks.co.uk).
- 2.62. 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**

- 2.63. We do not operate networks outside our Distribution Services Area.

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

- 2.64. Licensed Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.
- 2.65. 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

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<sup>5</sup> MRA Data Transfer Catalogue available from <https://dtc.mrasco.com/>

- dependent upon the voltage of connection of each embedded network to our Distribution System. The relevant charge structures are set out in Annex 4.
- 2.66. Where a NHH metered MPAN has an invalid Settlement combination, the 'LDNO HV: Domestic Aggregated' 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 Aggregated' fixed and unit charges will be applied for each invalid SSC/TPR combination.
- 2.67. 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.
- 2.68. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

#### **Licence exempt distribution networks**

- 2.69. The Electricity and Gas (Internal Market) Regulations 2011<sup>6</sup> introduced new obligations on owners of licence exempt distribution networks (sometimes called private networks) including a duty to facilitate access to electricity and gas suppliers for Customers within those networks.
- 2.70. 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.
- 2.71. Licence exempt distribution networks owners can provide third party access using either full settlement metering or the difference metering approach.

#### **Full settlement metering**

- 2.72. 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 licence exempt distribution network.
- 2.73. In this approach our UoS charges will be applied to each MPAN.

#### **Difference metering**

- 2.74. 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

<sup>6</sup> The Electricity and Gas (Internal Market) Regulations 2011 available from <http://www.legislation.gov.uk/uksi/2011/2704/contents/made>

approach, the Customers requiring third party access on the licence exempt distribution network will have their own MPAN and must have a HH Metering System.

### **Gross settlement**

- 2.75. 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.
- 2.76. 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” and contain the metering reference specified by us in place of the Settlement MPAN;
  - 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”.
- 2.77. 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**

- 2.78. 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.
- 2.79. The charges applicable for the embedded MPANs 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 use of our Distribution System are published in 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 the 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 to their Distribution Systems.
- 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 to their Distribution Systems.

### **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>7</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 (LLFs) and providing these to Elexon. Elexon is the company that manages the BSC.
- 4.3. LLFs are used to adjust the Metering System volumes to take account of losses on the Distribution System.

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

### Calculation of line loss factors

- 4.4. LLFs are calculated in accordance with BSCP128, which sets out the procedure and principles with which our LLF methodology must comply. It also defines the procedure and timetable by which LLFs are reviewed and submitted.
- 4.5. LLFs are calculated for a set number of time periods during the year using either a generic or site-specific method. The generic method is used for sites connected at LV or HV and the site-specific method is used for sites connected at EHV or where a request for site-specific LLFs has been agreed. Generic LLFs will be applied as a default to all new EHV sites until sufficient data is available for a site-specific calculation.

Where the usage profile for a given site contains insufficiently large consumption or generation volumes to enable calculation of realistic Site Specific LLFs then a default calculation, or default replacement process shall be undertaken. 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, which can be found on the Elexon website<sup>8</sup>.

### Publication of line loss factors

- 4.6. The LLFs used in Settlement are published on the Elexon Portal<sup>9</sup>. The website contains the LLFs in standard industry data formats and in a summary form. A user guide with details on registering and using the portal is also available.
- 4.7. 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.
- 4.8. As this statement is published a complete year before the LLFs for the charging year have been produced, Annex 5 is intentionally left blank. This statement will be reissued with Annex 5 populated once the LLFs have been calculated and audited. This should typically be more than three months prior to the statement coming into force.
- 4.9. When using the tables in Annex 5, reference should be made to the LLFC allocated to the MPAN to find the appropriate values.

<sup>8</sup> BSCP128: Production, Submission, Audit and Approval of Line Loss Factors

<https://www.elexon.co.uk/csd/bscp128-production-submission-audit-and-approval-of-line-loss-factors/>

<sup>9</sup> The Elexon Portal can be accessed from [www.elexonportal.co.uk](http://www.elexonportal.co.uk)

## 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 on our website in an addendum to that statement as and when necessary. The addendum will include charge information of the type found in Annex 2, and LLFs as found in Annex 5.
- 5.4. The form of the addendum is detailed in Annex 6 to this statement.
- 5.5. The new Designated EHV Properties' charges will be added to Annex 2 in the next full statement released.

### Charges for amended Designated EHV Properties

- 5.6. 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

- 5.7. 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.
- 5.8. 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.

- 5.9. 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 **0800 029 4282**
  - By writing to UK Power Networks, Connections 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.

- 5.10. 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.
- 5.11. A guide to Demand Side Management (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.

## **9. Schedule of fixed adders to recover Supplier of Last Resort and Eligible Bad Debt pass-through costs**

### ***Supplier of Last Resort***

- 9.1. In accordance with Standard Condition 38B 'Treatment of payment claims for last-resort supply where Valid Claim is received on or after 1 April 2019' ('SLC38B') of our Electricity Distribution Licence, and subject to paragraph 9 of that condition, our charges will recover the amount of payments in Regulatory Year t-2 made in response to Last Resort Supply Payment claims. In accordance with Charge Restriction Condition 2B 'Calculation of Allowed Pass-Through Items' ('CRC2B'), specifically paragraph 35 of that condition, other relevant adjustments may also be included.

### ***Excess Supplier of Last Resort***

- 9.2. In accordance with paragraph 9 of SLC38B, we may amend previously published charges as a result of Last Resort Supply Payment claims which breach the Materiality Threshold.
- 9.3. In such instance, we will include the fixed charge adder to recover these costs separately to the charges calculated in accordance with paragraph 9.1. The Excess Supplier of Last Resort fixed adder therefore represents an increase to previously published charges only.

### ***Eligible Bad Debt***

- 9.4. In accordance with CRC2B, specifically paragraph 39 of that condition, our charges will recover the amount of use of system bad debt the Authority has consented to be recovered. This includes use of system bad debt our charges are recovering on behalf of Independent Distribution Network Operators (IDNOs), in accordance with Standard Licence Condition 38C 'Treatment of Valid Bad Debt Claims' ('SLC38C'), and specifically paragraph 4 of that condition, plus any amounts being returned by us, including on behalf of IDNOs.

### ***Tables of Fixed Adders***

- 9.5. Tables listing the charges to recover Supplier of Last Resort and Eligible Bad Debt pass-through costs are published in annex 7 to this document.

## 10. Charges for Eligible Electricity Storage Facilities

### Storage Facilities

10.1. A Storage Facility is charged an import tariff that excludes the residual cost element of charges. If the User wishes for a property to qualify for allocation to these tariffs, then the User must submit certification declaring that the property meets the required criteria as per DCUSA.

### Process for submitting certification

10.2. This certification should take the form as set out in Appendix 3 and be submitted to Distribution Pricing using the contact details in 1.12.

We may, at our discretion, request a signed paper certificate from the User, in place of electronic. If requested, paper certification should be posted to the contact details in 1.12.

10.3. Users should undertake reasonable endeavours to ensure the facts attested to in the certification are true. We may request documentation evidencing these endeavours, including where appropriate, photographs of metering positions or system diagrams, following receipt of the certification.

10.4. If we determine that the documentation provided does not sufficiently evidence the undertaking of reasonable endeavours, does not support the facts attested to in the certification, or if no documentation is received, we may at our discretion reject the certification as invalid. If the certification is rejected as invalid, then the property will not qualify as a Storage Facility.

### Application of charges for Storage Facilities

10.5. A property will only be deemed to qualify as a Storage Facility, and be allocated charges as such, from the date on which we receive valid certification.

10.6. If a property that has previously been certified as a Storage Facility no longer satisfies the criteria as per DCUSA, then the User must inform us immediately.

10.7. For a property that has been previously certified as a Storage Facility, we will continue to apply the relevant storage import tariff without the requirement for further certification, except in any one of the following circumstances;

- a) Where we have reason to believe that the property no longer qualifies as a Storage Facility; or,
- b) Significant time has passed since the certification was submitted; or,
- c) Where there is a change to the connection characteristics i.e. capacity change.

If such circumstances occur, we may request re-certification of the site, or reject the certification as invalid at our discretion.

- 10.8. When a property no longer meets the required criteria to qualify as a Storage Facility, we will change the allocation of charges accordingly from that point.
- 10.9. Please refer to the section 'Incorrectly allocated charges' if you believe the property has been incorrectly not allocated charges as a Storage Facility.

## 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="https://www.elexon.co.uk/csd/bscp01-overview-of-trading-arrangements/">https://www.elexon.co.uk/csd/bscp01-overview-of-trading-arrangements/</a>
Balancing and Settlement Code Procedure (BSCP)	A document of that title, as established or adopted and from time to time modified by the Panel in accordance with The Code, setting out procedures to be complied with (by Parties, Party Agents, BSC Agents, BSCCo, the Panel and others) in, and other matters relating to, the implementation of The Code;
Common Distribution Charging Methodology (CDCM)	The CDCM used for calculating charges to Designated Properties as required by standard licence condition 13A of the Electricity Distribution Licence.
Connection Agreement	An agreement between an LDNO and a Customer which provides that that Customer has the right for its connected installation to be and remain directly or indirectly connected to that LDNO's Distribution System
Central Volume Allocation (CVA)	As defined in the BSC.
Customer	A person to whom a User proposes to supply, or for the time being supplies, electricity through an exit point, or from who, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point; 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.
Distribution Connection and Use of System Agreement (DCUSA)	The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.



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="659 392 1396 1933"> <thead> <tr> <th data-bbox="659 392 730 454">ID</th> <th data-bbox="730 392 1043 454">Distribution Service Area</th> <th data-bbox="1043 392 1396 454">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> <tr><td>30</td><td>All</td><td>Leep Electricity Networks Ltd</td></tr> <tr><td>31</td><td>All</td><td>UK Power Distribution Ltd</td></tr> <tr><td>32</td><td>All</td><td>Energy Assets Networks Limited</td></tr> <tr><td>33</td><td>All</td><td>Eclipse Power Networks Ltd</td></tr> <tr><td>34</td><td>All</td><td>Murphy Power Distribution Ltd</td></tr> <tr><td>35</td><td>All</td><td>Fulcrum Electricity Assets Ltd</td></tr> <tr><td>36</td><td>All</td><td>Vattenfall Networks Ltd</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	30	All	Leep Electricity Networks Ltd	31	All	UK Power Distribution Ltd	32	All	Energy Assets Networks Limited	33	All	Eclipse Power Networks Ltd	34	All	Murphy Power Distribution Ltd	35	All	Fulcrum Electricity Assets Ltd	36	All	Vattenfall Networks Ltd
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	Distribution Network Operator (DNO)	An electricity distributor that operates one of the 14 distribution services areas and in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.																																																																																

Term	Definition
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.
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</li> </ul> <p>to the points of delivery to:</p> <ul style="list-style-type: none"> <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 Network	An electricity Distribution System operated by an LDNO and embedded within another Distribution System.
Engineering Recommendation P2/6	A document of the Energy Networks Association, which defines planning standards for security of supply and is referred to in Standard Licence Condition 24 of our Electricity Distribution Licence.
Entry Point	A boundary point at which electricity is exported onto a Distribution System from a connected installation or from another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).
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.

Term	Definition
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.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in Market Domain Data.
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 to distribute electricity.
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 CT;</li> <li>• Measurement Class F – half hourly metering equipment at below 100kW premises with CT or whole current, and at domestic premises; and</li> <li>• Measurement Class G – half hourly metering equipment at below 100kW premises with whole current and not at domestic premises.</li> </ul>
Meter Timeswitch Code (MTC)	<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 Master Registration Agreement (MRA) provides a governance mechanism to manage the processes established between electricity suppliers and distribution companies to enable electricity suppliers to transfer customers. It includes terms for the provision of Metering Point Administration Services (MPAS) Registrations.</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>
Ofgem	<p>Office of Gas and Electricity Markets – Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.</p>

Term	Definition
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.
Storage Facility	Means a property that is either an Eligible Electricity Storage Facility as per DCUSA Schedule 16, or an Eligible EHV Electricity Storage Facility as per DCUSA Schedule [17/18].
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 premises 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.

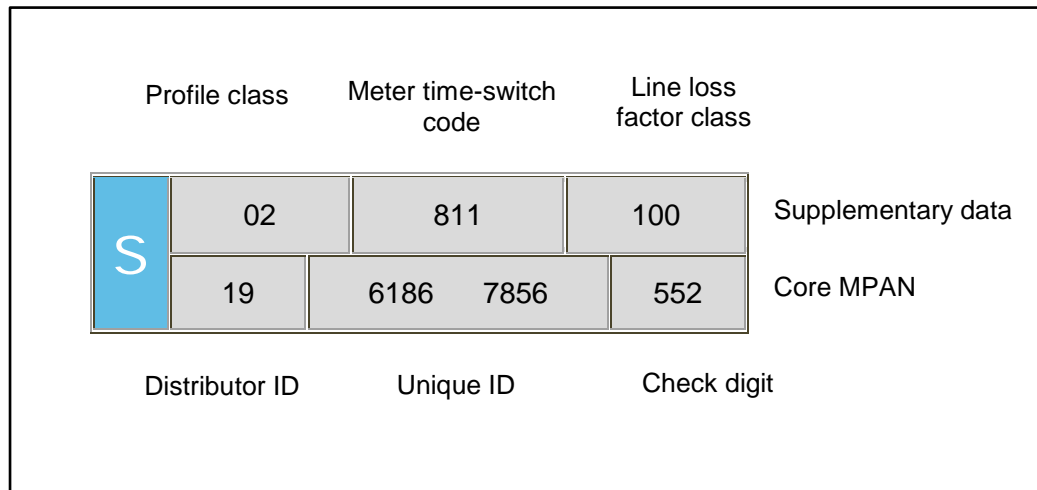
### Meter point administration

- 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' and includes supplementary data. 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.

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<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 LLFC 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 MPAN core. 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 or 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 19 are provided in this statement.
- 1.13. You can identify your charges by referencing your LLFC, 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 or Annex 6. When identifying charges in Annex 2, please note that some LLFCs have more than one charge. In this instance, you will need to select the correct charge by cross-referencing with the MPAN core 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 during peak periods, although the ability to directly benefit will be linked to the structure of your supply charges.
- 1.16. The calculator mentioned above provides the opportunity to establish a forecast of the change in distribution charges that could be achieved if you are able to change any of the consumption related inputs.

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

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



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

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

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

- 1.22. A site classified as a Designated EHV Property is subject to a locational-based charging methodology (referred to as EDCM) for higher voltage network users. Distributors use one of two approved approaches: Long Run Incremental Cost (LRIC) or Forward Cost Pricing (FCP); we use the LRIC. The EDCM will apply to Customers connected at EHV or connected at HV and metered at a HV Substation.
- 1.23. EDCM charges and credits are site-specific, reflecting the degree to which the local and higher voltage networks have the capacity to serve more demand or generation without the need to upgrade the electricity infrastructure. The charges also reflect the networks specifically used to deliver the electricity to the site as well as the usage at the site. Generators with non-intermittent output and deemed to be providing beneficial support to our networks may qualify to receive credit.
- 1.24. The charges under the EDCM comprise of the following individual components:
  - a) **Fixed charge (pence/MPAN/day)** - 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 (kVA<sub>r</sub>) 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.

### Appendix 3 – Electricity Storage Certificate

A certificate set out in the form of the example shown below should be submitted to confirm that a site qualifies as an Electricity Storage Facility.

<b>Electricity Storage Facility Certificate of Compliance</b>	
<p>This is to certify that the Metering System listed below qualifies as compliant with the criteria of an Eligible Electricity Storage Facility, or an Eligible EHV Electricity Storage Facility, for the purposes of Use of System charges, and that:</p> <ul style="list-style-type: none"> <li>a) the property has an export MPAN, or export metering system registered in Central Metering Registration Service (CMRS), and an import MPAN, or import Metering System registered in CMRS, with associated metering equipment which only measure export from Electricity Storage and import for, or directly relating to, Electricity Storage (and not export from another source or import for another activity);</li> <li>b) all metering equipment referred to in point (a) above is CT metering.</li> </ul> <p>For the purposes of this declaration, the terms Electricity Storage, Eligible Electricity Storage Facility and Eligible EHV Electricity Storage Facility have the meanings given to them in the DCUSA.</p>	
Metering System Site Address:	
Qualifying Import MPAN/MSID(s)	Qualifying Export MPAN/MSID(s)
<p>I declare that I understand the qualification requirements and certify that the above Metering System meets the criteria of an Eligible Electricity Storage Facility, or an Eligible EHV Electricity Storage Facility.</p> <p>Authorised signatory:</p> <p>Name and designation:</p> <p>On behalf of company:</p> <p>Date:</p>	

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

## South Eastern Power Networks - Effective from 1 April 2021 - Final LV and HV charges

Time Bands for LV and HV Designated 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 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	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh	Closed LLFCs
Domestic Aggregated	1, 100, 300	1, 2 or 0	16.865	1.208	0.665	3.99				101, 250, 301
Domestic Aggregated (related MPAN)	2, 251	2	16.865	1.208	0.665					283, 296
Non-Domestic Aggregated	120, 200, 201, 202, 203, 204, 320, 480	3-8 or 0	13.204	1.062	0.641	4.14				124, 270, 274, 324, 484
Non-Domestic Aggregated (related MPAN)	287	4	13.204	1.062	0.641					297
LV Site Specific	71, 72, 73, 74, 550	0	9.090	0.881	0.610	11.31	3.68	7.12	0.276	
LV Sub Site Specific	81, 82, 83, 84, 756	0	5.848	0.735	0.585	8.39	5.70	7.43	0.161	
HV Site Specific	91, 92, 93, 94, 650	0	5.471	0.713	0.580	111.11	4.27	6.63	0.151	
LV Site Specific Storage Import	19, 70	0	8.531	0.321	0.050	11.31	3.68	7.12	0.276	
LV Sub Site Specific Storage Import	79, 80	0	5.289	0.176	0.025	8.39	5.70	7.43	0.161	
HV Site Specific Storage Import	89, 90	0	4.911	0.153	0.021	111.11	4.27	6.63	0.151	
Unmetered Supplies	350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366	1, 8 or 0	40.302	1.789	1.317					
LV Generation Aggregated	932	8 or 0	-9.262	-0.368	-0.060	0.00				922, 933
LV Sub Generation Aggregated		0	-8.273	-0.318	-0.051	0.00				
LV Generation Site Specific	980, 982	0	-9.262	-0.368	-0.060	0.00			0.267	
LV Generation Site Specific no RP charge	981, 983	0	-9.262	-0.368	-0.060	0.00				
LV Sub Generation Site Specific	984, 986	0	-8.273	-0.318	-0.051	0.00			0.243	
LV Sub Generation Site Specific no RP charge	985, 987	0	-8.273	-0.318	-0.051	0.00				
HV Generation Site Specific	988, 990	0	-5.769	-0.189	-0.027	9.39			0.196	
HV Generation Site Specific no RP charge	989, 991	0	-5.769	-0.189	-0.027	9.39				

Annex 2 - 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 1 April 2021 - 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)
B&RLTD	834	1900035000482 1900035425153				B&RLTD	2.862	218.82	5.37	5.37				
BEDDIN	889	1900070745640 1900070745650 1900070745669 1900070745678				BEDDIN	0.000	109.41	1.26	1.26				
BP_OIL	835	1900017426438 1900017426447				BP_OIL	1.109	218.82	1.84	1.84				
CHESDC	ENET	1999000002228 1999000002237				CHESDC	0.000	627.76	1.55	1.55				
DIGREA	833	1900091200323 1900091200332				DIGREA	0.000	1536.48	3.48	3.48				
EUROTU	874	1900060219605				EUROTU	0.000	90359.38	0.65	0.65				
GAT_AF	869	1900017427938 1900017427947 1900060576620				GAT_AF	2.138	2443.90	7.42	7.42				
GAT_BF	870	1900060690231 1900060690240				GAT_BF	0.723	627.76	4.84	4.84				
KNGSPN		MSID: 1027				KNGSPN	0.000	0.00	2.70	2.70				
NP_LAB	837	1900047386380				NP_LAB	2.398	437.64	4.49	4.49				
NR_3BR	866	1900060219145				NR_3BR	0.863	941.64	4.66	4.66				
NR_AFD	851	1900060219377				NR_AFD	0.176	627.76	2.40	2.40				
NR_ASH	879	1900070068129				NR_ASH	0.224	627.76	4.41	4.41				
NR_BRI	852	1900060218675				NR_BRI	0.000	941.64	2.44	2.44				
NR_BYF	853	1900060218727				NR_BYF	0.263	941.64	2.17	2.17				
NR_CAN	854	1900060218790				NR_CAN	0.017	627.76	3.01	3.01				
NR_CRO	855	1900060218815				NR_CRO	0.000	627.76	2.88	2.88				
NR_DOR	856	1900060219303				NR_DOR	2.343	627.76	3.19	3.19				
NR_EAS	857	1900060218912				NR_EAS	3.464	627.76	3.86	3.86				
NR_FOK	858	1900060218959				NR_FOK	0.102	627.76	3.01	3.01				
NR_HAS	859	1900060218986				NR_HAS	0.267	3900.36	3.64	3.64				
NR_LEA	860	1900060219001				NR_LEA	2.105	627.76	3.75	3.75				
NR_MAI	861	1900060219535				NR_MAI	6.996	627.76	3.88	3.88				
NR_NOR	862	1900060219891				NR_NOR	0.190	1255.51	1.85	1.85				
NR_QUE	863	1900060219084				NR_QUE	0.000	329.74	3.27	3.27				
NR_SIT	864	1900060219819 1900060219855				NR_SIT	0.002	627.76	1.64	1.64				
NR_THA	865	1900060219720 1900060219794				NR_THA	0.732	627.76	4.10	4.10				
NR_TUN	867	1900060219206				NR_TUN	1.170	627.76	2.90	2.90				
PFIZER	881	1900060219544				PFIZER	0.142	2082.90	1.06	1.06				

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)
SENTIV	888	1900090497281 1900090497290 1900090497306 1900090497315				SENTIV	0.005	68659.26	1.42	1.42				
THAMEM	838	1900090872672 1900090872681	THAMEM	691	1900090876979 1900090876988	THAMEM	0.000	3839.52	2.26	2.26	0.000	2879.64	0.05	0.05
THAMES	884	1900016424857	THAMES	732	1900060576611	THAMES	0.000	2942.58	4.59	4.59	0.000	1726.31	0.05	0.05
TWHK66	839	1900091206176	TWHK66	692	1900091206194	TWHK66	3.008	188.64	1.88	1.88	-2.957	30.18	0.05	0.05
ASHBYS	809	1900091216963	ASHBYS	741	1900091216972	ASHBYS	0.051	9.63	4.22	4.22	0.000	982.39	0.05	0.05
ASHGEN	801	1900090978866	ASHGEN	734	1900090978875	ASHGEN	0.000	91.90	1.25	1.25	0.000	2756.96	0.05	0.05
AYLESF	868	1900060216613	AYLESF	725	1900060436880	AYLESF	0.000	313.88	0.87	0.87	0.000	0.00	0.00	0.00
BEDERF	840	1900091482588	BEDERF	693	1900091482597	BEDERF	0.000	338.93	1.47	1.47	-0.175	2408.15	0.05	0.05
BESAYL	841	1900091632775	BESAYL	694	1900091632784	BESAYL	0.168	345.61	0.90	0.90	-0.209	345.61	0.05	0.05
BNTLEY	890	1900091343778	BNTLEY	713	1900091343787	BNTLEY	9.223	8.67	1.67	1.67	0.000	866.59	0.05	0.05
BNTLY2	830	1900091463646	BNTLY2	712	1900091463655	BNTLY2	9.223	6.60	1.55	1.55	0.000	554.77	0.05	0.05
BOBBNG	891	1900091395508	BOBBNG	705	1900091395517	BOBBNG	0.002	4.70	3.27	3.27	0.000	940.36	0.05	0.05
BRAMBS	842	1900091566810	BRAMBS	695	1900091566820	BRAMBS	0.075	345.61	1.50	1.50	-0.085	345.61	0.05	0.05
BRELLE	843	1900091523116	BRELLE	696	1900091523125	BRELLE	0.000	33.79	2.11	2.11	0.000	720.89	0.05	0.05
BRETSH	871	1900061003393 1900090466576	BRETSH	726	1900060866064 1900060866082	BRETSH	0.001	22.50	1.26	1.26	0.000	0.00	0.00	0.00
BRKHST	802	1900090834409	BRKHST	738	1900090834418	BRKHST	0.357	1628.32	2.12	2.12	-0.532	4837.77	0.05	0.05
BTBRKS	810	1900091199350	BTBRKS	742	1900091199379	BTBRKS	1.127	48.75	1.33	1.33	0.000	1083.27	0.05	0.05
CAPELG	893	1900091353298	CAPELG	706	1900091353303	CAPELG	0.616	0.86	4.57	4.57	0.000	703.05	0.05	0.05
CLYHLL	894	1900091343750	CLYHLL	716	1900091343769	CLYHLL	0.577	6.53	1.99	1.99	0.000	652.96	0.05	0.05
CRYENG	872	1900060831692	CRYENG	730	1900060831708	CRYENG	0.000	112.13	1.15	1.15	-0.004	299.01	0.05	0.05
DSCPRK	804	1900091057568 1900091637072	DSCPRK	704	1900091057559 1900091637081	DSCPRK	0.142	1387.09	1.01	1.01	-0.143	2854.23	0.05	0.05
FORDSF	895	1900091361962	FORDSF	707	1900091361971	FORDSF	0.000	11.34	1.63	1.63	0.000	648.14	0.05	0.05
FRWOOD	811	1900091200388	FRWOOD	743	1900091200397	FRWOOD	0.000	17.91	1.54	1.54	0.000	895.42	0.05	0.05
GROVEH	875	1900060225185	GROVEH	727	1900060225194	GROVEH	0.000	411.64	1.00	1.00	0.000	0.00	0.00	0.00
GUSTON	831	1900091338040	GUSTON	708	1900091338059	GUSTON	0.010	15.15	1.70	1.70	0.000	1515.01	0.05	0.05
HADLOW	812	1900091217043	HADLOW	744	1900091217052	HADLOW	0.526	1.82	3.85	3.85	0.000	689.39	0.05	0.05
HANSTA	876	1900004383769 1900031426056	HANSTA	728	1900060442174 1900060512032	HANSTA	0.000	1.80	1.11	1.11	0.000	0.00	0.00	0.00
HLLMBY	813	1900091217070	HLLMBY	745	1900091217080	HLLMBY	0.000	9.41	1.50	1.50	0.000	758.83	0.05	0.05
HORAMS	824	1900091200068	HORAMS	701	1900091200077	HORAMS	0.140	13.17	7.66	7.66	0.000	1712.45	0.05	0.05
KENTI2	814	1900091199519	KENTI2	746	1900091199528	KENTI2	0.160	8.28	0.90	0.90	0.000	305.60	0.05	0.05
KENTIS	877	1900070122273	KENTIS	722	1900070122343	KENTIS	0.160	6.82	0.93	0.93	0.000	0.00	0.00	0.00
KM3CHP	846	1900091669720	KM3CHP	699	1900091669739	KM3CHP	0.000	260.46	1.07	1.07	0.000	2467.91	0.05	0.05
KNWLTN	803	1900091091930	KNWLTN	735	1900091091940	KNWLTN	0.009	13.55	2.01	2.01	0.000	1280.54	0.05	0.05
LBOURN	815	1900091171267	LBOURN	747	1900091171276	LBOURN	0.001	7.86	2.05	2.05	0.000	737.29	0.05	0.05
LCHEYI	878	1900090194653	LCHEYI	721	1900090194664	LCHEYI	0.006	5.87	1.16	1.16	0.000	762.37	0.05	0.05
LENHAM	808	1900091081560	LENHAM	736	1900091081570	LENHAM	0.095	12.81	2.90	2.90	0.000	1281.28	0.05	0.05
LGHTON	816	1900091200138	LGHTON	748	1900091200147	LGHTON	1.128	10.99	2.08	2.08	0.000	769.07	0.05	0.05
MARSHB	896	1900091310596	MARSHB	709	1900091310601	MARSHB	0.059	20.03	1.82	1.82	0.000	817.15	0.05	0.05
MLEHLL	819	1900091183402	MLEHLL	751	1900091183411	MLEHLL	0.211	2.49	1.79	1.79	0.000	311.39	0.05	0.05
MLMAYN	817	1900091079241	MLMAYN	749	1900091079232	MLMAYN	0.258	1.37	3.47	3.47	0.000	658.12	0.05	0.05
MVVRID	897	1900091199138	MVVRID	710	1900091199147	MVVRID	0.000	1005.02	1.08	1.08	0.000	5286.38	0.05	0.05
NEWHVN	800	1900090585014	NEWHVN	700	1900090585005	NEWHVN	0.606	39.23	1.24	1.24	-0.606	274.64	0.05	0.05
NEWRID	845	1900091718313	NEWRID	698	1900091718322	NEWRID	0.000	3.51	2.20	2.20	0.000	1404.81	0.05	0.05
OAKLND	820	1900091197414	OAKLND	752	1900091197423	OAKLND	0.102	5.72	2.34	2.34	0.000	628.38	0.05	0.05
OLDRSF	805	1900091024517	OLDRSF	739	1900091024526	OLDRSF	0.002	4.13	2.59	2.59	0.000	826.70	0.05	0.05
ORCHRD	898	1900091085120 1900091473662	ORCHRD	753	1900091085110 1900091349724 1900091349733 1900091473671	ORCHRD	0.002	5.19	2.56	2.56	0.000	933.53	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)
PADWSF	822	1900091216634	PADWSF	754	1900091216643	PADWSF	0.590	4.34	1.99	1.99	0.000	686.88	0.05	0.05
POSHWF	827	1900091227307	POSHWF	719	1900091227316	POSHWF	0.000	6.15	1.26	1.26	0.000	307.72	0.05	0.05
PRIORS	899	1900091319942	PRIORS	717	1900091320006	PRIORS	0.000	4.31	2.14	2.14	0.000	648.83	0.05	0.05
PSHLEY	826	1900091178954	PSHLEY	703	1900091178963	PSHLEY	0.000	11.71	2.31	2.31	0.000	1171.32	0.05	0.05
SELLSF	900	1900091360950	SELLSF	720	1900091360969	SELLSF	0.026	3.71	2.95	2.95	0.000	719.24	0.05	0.05
SEVIND		MSID: 7160	SEVIND		MSID: 7160	SEVIND	0.607	1.35	1.15	1.15	-0.650	108.06	0.05	0.05
SHEPHM	832	1900091420128	SHEPHM	718	1900091420137	SHEPHM	2.178	45.89	1.30	1.30	0.000	1720.73	0.05	0.05
SHORHM		MSID: 7104	SHORHM		MSID: 7105	SHORHM	0.000	273.63	1.42	1.42	0.000	0.00	0.00	0.00
SOLEES	823	1900091121257 1900091121275	SOLEES	755	1900091121266 1900091121284	SOLEES	0.016	38.05	1.55	1.55	0.000	1598.22	0.05	0.05
STAREN	883	1900060830217	STAREN	729	1900060830226	STAREN	0.000	1299.22	1.60	1.60	0.000	0.00	0.00	0.00
SYCAMR	807	1900091090096	SYCAMR	737	1900091090101	SYCAMR	0.057	57.70	2.01	2.01	0.000	2077.24	0.05	0.05
THAEAR	850	1900090417081 1900090417106 1900090417133 1900090417142 1900090417151	THAEAR	733	1900090417160 1900090417189 1900090417212 1900090417221 1900090417230	THAEAR	0.009	3211.71	1.36	1.36	0.000	3211.71	0.05	0.05
THANET		MSID: 7230	THANET		MSID: 7230	THANET	0.015	14.45	1.30	1.30	0.000	1522.03	0.05	0.05
THORNE	818	1900091171364	THORNE	750	1900091171373	THORNE	0.013	19.55	2.37	2.37	0.000	2032.89	0.05	0.05
TONGSF	828	1900091363000	TONGSF	711	1900091363019	TONGSF	0.000	29.72	1.96	1.96	0.000	2311.46	0.05	0.05
WDLNDS	825	1900091207124	WDLNDS	702	1900091207133	WDLNDS	0.009	21.97	2.38	2.38	0.000	2636.51	0.05	0.05
WIDHFM	821	1900091478493	WIDHFM	714	1900091478509	WIDHFM	0.204	17.15	3.77	3.77	0.000	1372.13	0.05	0.05
WLBEEES	829	1900091315238	WLBEEES	715	1900091315229	WLBEEES	0.563	3.11	1.96	1.96	0.000	310.77	0.05	0.05
WRGALL	887	1900070394457	WRGALL	731	1900070394466	WRGALL	0.000	724.14	0.88	0.88	0.000	0.00	0.00	0.00
WSTWDX	806	1900091086531	WSTWDX	740	1900091086540	WSTWDX	0.013	12.81	1.96	1.96	0.000	1281.28	0.05	0.05

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

South Eastern Power Networks - Effective from 1 April 2021 - Final LV and HV tariffs									
Supercustomer preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day			
Notes:	South Eastern Power Networks has no Preserved NHH Tariffs/Additional LLFC classes								

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



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

### South Eastern Power Networks - Effective from 1 April 2021 - Final LDNO tariffs

Time Bands for LV and HV Designated 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 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	Red/black unit charge p/kWh	Amber/yellow unit charge p/kWh	Green unit charge p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO LV: Domestic Aggregated	A00	1, 2 or 0	11.484	0.822	0.453	2.78			
LDNO LV: Domestic Aggregated (related MPAN)	B00	2	11.484	0.822	0.453				
LDNO LV: Non-Domestic Aggregated	C00, C01, C02, C03, C04	3-8 or 0	8.991	0.723	0.437	2.88			
LDNO LV: Non-Domestic Aggregated (related MPAN)	D00	4	8.991	0.723	0.437				
LDNO LV: LV Site Specific	E01, E02, E03, E04	0	6.190	0.600	0.415	7.76	2.50	4.85	0.188
LDNO LV: LV Site Specific Storage Import	E00	0	5.809	0.219	0.034	7.76	2.50	4.85	0.188
LDNO LV: Unmetered Supplies	U00	1, 8 or 0	27.443	1.218	0.896				
LDNO LV: LV Generation Aggregated	F00	8 or 0	-9.262	-0.368	-0.060	0.00			
LDNO LV: LV Generation Site Specific	G00	0	-9.262	-0.368	-0.060	0.00			0.267
LDNO HV: Domestic Aggregated	A10	1, 2 or 0	8.715	0.624	0.344	2.16			
LDNO HV: Domestic Aggregated (related MPAN)	B10	2	8.715	0.624	0.344				
LDNO HV: Non-Domestic Aggregated	C10, C11, C12, C13, C14	3-8 or 0	6.823	0.549	0.331	2.23			
LDNO HV: Non-Domestic Aggregated (related MPAN)	D10	4	6.823	0.549	0.331				
LDNO HV: LV Site Specific	E11, E12, E13, E14	0	4.697	0.455	0.315	5.94	1.90	3.68	0.143
LDNO HV: LV Sub Site Specific	J11, J12, J13, J14	0	4.531	0.570	0.453	6.54	4.41	5.76	0.125
LDNO HV: HV Site Specific	K11, K12, K13, K14	0	4.732	0.616	0.502	96.14	3.69	5.73	0.131
LDNO HV: LV Site Specific Storage Import	E10	0	4.408	0.166	0.026	5.94	1.90	3.68	0.143
LDNO HV: LV Sub Site Specific Storage Import	J10	0	4.098	0.136	0.020	6.54	4.41	5.76	0.125
LDNO HV: HV Site Specific Storage Import	K10	0	4.248	0.132	0.018	96.14	3.69	5.73	0.131
LDNO HV: Unmetered Supplies	U10	1, 8 or 0	20.826	0.924	0.680				
LDNO HV: LV Generation Aggregated	F10	8 or 0	-9.262	-0.368	-0.060	0.00			
LDNO HV: LV Sub Generation Aggregated	H10	0	-8.273	-0.318	-0.051	0.00			
LDNO HV: LV Generation Site Specific	G10	0	-9.262	-0.368	-0.060	0.00			0.267
LDNO HV: LV Sub Generation Site Specific	L10	0	-8.273	-0.318	-0.051	0.00			0.243
LDNO HV: HV Generation Site Specific	M10	0	-5.769	-0.189	-0.027	0.00			0.196
LDNO HVplus: Domestic Aggregated	A20	1, 2 or 0	6.392	0.458	0.252	1.63			
LDNO HVplus: Domestic Aggregated (related MPAN)	B20	2	6.392	0.458	0.252				
LDNO HVplus: Non-Domestic Aggregated	C20, C21, C22, C23, C24	3-8 or 0	5.004	0.403	0.243	1.69			
LDNO HVplus: Non-Domestic Aggregated (related MPAN)	D20	4	5.004	0.403	0.243				
LDNO HVplus: LV Site Specific	E21, E22, E23, E24	0	3.445	0.334	0.231	4.41	1.39	2.70	0.105
LDNO HVplus: LV Sub Site Specific	J21, J22, J23, J24	0	3.288	0.413	0.329	4.80	3.20	4.18	0.091
LDNO HVplus: HV Site Specific	K21, K22, K23, K24	0	3.420	0.445	0.363	69.54	2.67	4.14	0.095
LDNO HVplus: LV Site Specific Storage Import	E20	0	3.233	0.122	0.019	4.41	1.39	2.70	0.105
LDNO HVplus: LV Sub Site Specific Storage Import	J20	0	2.973	0.099	0.014	4.80	3.20	4.18	0.091
LDNO HVplus: HV Site Specific Storage Import	K20	0	3.070	0.096	0.013	69.54	2.67	4.14	0.095
LDNO HVplus: Unmetered Supplies	U20	1, 8 or 0	15.274	0.678	0.499				
LDNO HVplus: LV Generation Aggregated	F20	8 or 0	-5.207	-0.207	-0.034	0.00			
LDNO HVplus: LV Sub Generation Aggregated	H20	0	-5.172	-0.199	-0.032	0.00			
LDNO HVplus: LV Generation Site Specific	G20	0	-5.207	-0.207	-0.034	0.00			0.150
LDNO HVplus: LV Sub Generation Site Specific	L20	0	-5.172	-0.199	-0.032	0.00			0.152
LDNO HVplus: HV Generation Site Specific	M20	0	-5.769	-0.189	-0.027	9.39			0.196
LDNO EHV: Domestic Aggregated	A30	1, 2 or 0	5.186	0.371	0.204	1.36			
LDNO EHV: Domestic Aggregated (related MPAN)	B30	2	5.186	0.371	0.204				
LDNO EHV: Non-Domestic Aggregated	C30, C31, C32, C33, C34	3-8 or 0	4.060	0.327	0.197	1.40			
LDNO EHV: Non-Domestic Aggregated (related MPAN)	D30	4	4.060	0.327	0.197				

LDNO EHV: LV Site Specific	E31, E32, E33, E34	0	2.795	0.271	0.188	3.61	1.13	2.19	0.085
LDNO EHV: LV Sub Site Specific	J31, J32, J33, J34	0	2.668	0.335	0.267	3.93	2.60	3.39	0.074
LDNO EHV: HV Site Specific	K31, K32, K33, K34	0	2.775	0.361	0.294	56.46	2.17	3.36	0.077
LDNO EHV: LV Site Specific Storage Import	E30	0	2.623	0.099	0.016	3.61	1.13	2.19	0.085
LDNO EHV: LV Sub Site Specific Storage Import	J30	0	2.412	0.080	0.012	3.93	2.60	3.39	0.074
LDNO EHV: HV Site Specific Storage Import	K30	0	2.491	0.078	0.010	56.46	2.17	3.36	0.077
LDNO EHV: Unmetered Supplies	U30	1, 8 or 0	12.393	0.550	0.405				
LDNO EHV: LV Generation Aggregated	F30	8 or 0	-4.225	-0.168	-0.027	0.00			
LDNO EHV: LV Sub Generation Aggregated	H30	0	-4.197	-0.161	-0.026	0.00			
LDNO EHV: LV Generation Site Specific	G30	0	-4.225	-0.168	-0.027	0.00			0.122
LDNO EHV: LV Sub Generation Site Specific	L30	0	-4.197	-0.161	-0.026	0.00			0.123
LDNO EHV: HV Generation Site Specific	M30	0	-4.681	-0.153	-0.022	7.62			0.159
LDNO 132kV/EHV: Domestic Aggregated	A40	1, 2 or 0	4.333	0.310	0.171	1.17			
LDNO 132kV/EHV: Domestic Aggregated (related MPAN)	B40	2	4.333	0.310	0.171				
LDNO 132kV/EHV: Non-Domestic Aggregated	C40, C41, C42, C43, C44	3-8 or 0	3.392	0.273	0.165	1.20			
LDNO 132kV/EHV: Non-Domestic Aggregated (related MPAN)	D40	4	3.392	0.273	0.165				
LDNO 132kV/EHV: LV Site Specific	E41, E42, E43, E44	0	2.336	0.226	0.157	3.05	0.94	1.83	0.071
LDNO 132kV/EHV: LV Sub Site Specific	J41, J42, J43, J44	0	2.229	0.280	0.223	3.31	2.17	2.83	0.062
LDNO 132kV/EHV: HV Site Specific	K41, K42, K43, K44	0	2.319	0.302	0.246	47.20	1.81	2.81	0.064
LDNO 132kV/EHV: LV Site Specific Storage Import	E40	0	2.192	0.082	0.013	3.05	0.94	1.83	0.071
LDNO 132kV/EHV: LV Sub Site Specific Storage Import	J40	0	2.016	0.067	0.010	3.31	2.17	2.83	0.062
LDNO 132kV/EHV: HV Site Specific Storage Import	K40	0	2.082	0.065	0.009	47.20	1.81	2.81	0.064
LDNO 132kV/EHV: Unmetered Supplies	U40	1, 8 or 0	10.355	0.460	0.338				
LDNO 132kV/EHV: LV Generation Aggregated	F40	8 or 0	-3.530	-0.140	-0.023	0.00			
LDNO 132kV/EHV: LV Sub Generation Aggregated	H40	0	-3.506	-0.135	-0.021	0.00			
LDNO 132kV/EHV: LV Generation Site Specific	G40	0	-3.530	-0.140	-0.023	0.00			0.102
LDNO 132kV/EHV: LV Sub Generation Site Specific	L40	0	-3.506	-0.135	-0.021	0.00			0.103
LDNO 132kV/EHV: HV Generation Site Specific	M40	0	-3.911	-0.128	-0.018	6.37			0.133
LDNO 132kV: Domestic Aggregated	A50	1, 2 or 0	3.078	0.220	0.121	0.89			
LDNO 132kV: Domestic Aggregated (related MPAN)	B50	2	3.078	0.220	0.121				
LDNO 132kV: Non-Domestic Aggregated	C50, C51, C52, C53, C54	3-8 or 0	2.409	0.194	0.117	0.91			
LDNO 132kV: Non-Domestic Aggregated (related MPAN)	D50	4	2.409	0.194	0.117				
LDNO 132kV: LV Site Specific	E51, E52, E53, E54	0	1.659	0.161	0.111	2.22	0.67	1.30	0.050
LDNO 132kV: LV Sub Site Specific	J51, J52, J53, J54	0	1.583	0.199	0.158	2.41	1.54	2.01	0.044
LDNO 132kV: HV Site Specific	K51, K52, K53, K54	0	1.647	0.214	0.175	33.58	1.29	2.00	0.046
LDNO 132kV: LV Site Specific Storage Import	E50	0	1.557	0.059	0.009	2.22	0.67	1.30	0.050
LDNO 132kV: LV Sub Site Specific Storage Import	J50	0	1.432	0.048	0.007	2.41	1.54	2.01	0.044
LDNO 132kV: HV Site Specific Storage Import	K50	0	1.478	0.046	0.006	33.58	1.29	2.00	0.046
LDNO 132kV: Unmetered Supplies	U50	1, 8 or 0	7.354	0.326	0.240				
LDNO 132kV: LV Generation Aggregated	F50	8 or 0	-2.507	-0.100	-0.016	0.00			
LDNO 132kV: LV Sub Generation Aggregated	H50	0	-2.490	-0.096	-0.015	0.00			
LDNO 132kV: LV Generation Site Specific	G50	0	-2.507	-0.100	-0.016	0.00			0.072
LDNO 132kV: LV Sub Generation Site Specific	L50	0	-2.490	-0.096	-0.015	0.00			0.073
LDNO 132kV: HV Generation Site Specific	M50	0	-2.778	-0.091	-0.013	4.52			0.094
LDNO 0000: Domestic Aggregated	A60	1, 2 or 0	1.124	0.080	0.044	0.45			
LDNO 0000: Domestic Aggregated (related MPAN)	B60	2	1.124	0.080	0.044				
LDNO 0000: Non-Domestic Aggregated	C60, C61, C62, C63, C64	3-8 or 0	0.880	0.071	0.043	0.45			
LDNO 0000: Non-Domestic Aggregated (related MPAN)	D60	4	0.880	0.071	0.043				
LDNO 0000: LV Site Specific	E61, E62, E63, E64	0	0.606	0.059	0.041	0.93	0.24	0.47	0.018
LDNO 0000: LV Sub Site Specific	J61, J62, J63, J64	0	0.578	0.073	0.058	1.00	0.56	0.73	0.016
LDNO 0000: HV Site Specific	K61, K62, K63, K64	0	0.601	0.078	0.064	12.38	0.47	0.73	0.017
LDNO 0000: LV Site Specific Storage Import	E60	0	0.568	0.021	0.003	0.93	0.24	0.47	0.018
LDNO 0000: LV Sub Site Specific Storage Import	J60	0	0.523	0.017	0.002	1.00	0.56	0.73	0.016
LDNO 0000: HV Site Specific Storage Import	K60	0	0.540	0.017	0.002	12.38	0.47	0.73	0.017
LDNO 0000: Unmetered Supplies	U60	1, 8 or 0	2.685	0.119	0.088				
LDNO 0000: LV Generation Aggregated	F60	8 or 0	-0.915	-0.036	-0.006	0.00			
LDNO 0000: LV Sub Generation Aggregated	H60	0	-0.909	-0.035	-0.006	0.00			
LDNO 0000: LV Generation Site Specific	G60	0	-0.915	-0.036	-0.006	0.00			0.026
LDNO 0000: LV Sub Generation Site Specific	L60	0	-0.909	-0.035	-0.006	0.00			0.027
LDNO 0000: HV Generation Site Specific	M60	0	-1.014	-0.033	-0.005	1.65			0.034

## Annex 5 – Schedule of 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 will be used in Settlement if they differ from these values.

South Eastern Power Networks - Illustrative LLFs for year beginning 1 April 2021					
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	1.098	1.074	1.087	1.067	1.078	1, 2, 19, 69, 71, 72, 73, 74, 100, 120, 199, 200, 201, 202, 203, 204, 251, 287, 300, 320, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 480, 550, 921, 932, 935, 980, 981, 982, 983
Low-voltage substation	1.073	1.057	1.066	1.052	1.059	79, 81, 82, 83, 84, 756, 781, 782, 984, 985, 986, 987
High-voltage network	1.057	1.042	1.051	1.036	1.044	89, 91, 92, 93, 94, 650, 926, 937, 988, 989, 990, 991
High-voltage substation	1.059	1.043	1.052	1.037	1.045	771, 791, 792
33kV generic	1.019	1.015	1.017	1.014	1.016	796, 797
132kV generic	1.006	1.005	1.006	1.004	1.005	798, 799

EHV site specific LLFs						
Demand						
Site	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
NEWHVN - Import	1.035	1.050	1.049	1.046	1.048	800
ASHGEN - Import	0.991	0.996	0.996	0.996	0.997	801
BRKHST - Import	1.042	1.034	1.048	1.023	1.037	802
KNWLTN - Import	1.019	1.015	1.017	1.014	1.016	803
DSCPRK - Import	1.007	1.012	1.007	1.010	1.010	804
OLDRSF - Import	1.019	1.015	1.017	1.014	1.016	805
WSTWDX - Import	1.019	1.015	1.017	1.014	1.016	806
SYCAMR - Import	1.019	1.015	1.017	1.014	1.016	807
LENHAM - Import	1.019	1.015	1.017	1.014	1.016	808
ASHBYS - Import	1.035	1.022	1.031	1.026	1.029	809
BTBRKS - Import	1.009	1.007	1.008	1.008	1.008	810
FRWOOD - Import	1.019	1.015	1.017	1.014	1.016	811
HADLOW - Import	1.019	1.015	1.017	1.014	1.016	812
HLLMBY - Import	1.006	1.005	1.006	1.004	1.005	813
KENT12 - Import	1.019	1.018	1.019	1.018	1.019	814
LBOURN - Import	1.019	1.015	1.017	1.014	1.016	815
LGHTON - Import	1.019	1.015	1.017	1.014	1.016	816
MLMAYN - Import	1.019	1.015	1.017	1.014	1.016	817
THORNE - Import	1.019	1.015	1.017	1.014	1.016	818
MLEHLL - Import	1.019	1.015	1.017	1.014	1.016	819
OAKLND - Import	1.014	1.011	1.014	1.012	1.014	820
WIDHFM - Import	1.058	1.046	1.052	1.044	1.052	821
PADWSF - Import	1.019	1.015	1.017	1.014	1.016	822
SOLEES - Import	1.019	1.015	1.017	1.014	1.016	823
HORAMS - Import	1.019	1.015	1.017	1.014	1.016	824
WDLNDS - Import	1.019	1.015	1.017	1.014	1.016	825
PSHLEY - Import	1.019	1.015	1.017	1.014	1.016	826

POSHWF - Import	1.046	1.045	1.046	1.044	1.046	827
TONGSF - Import	1.040	1.035	1.039	1.028	1.031	828
WLBEES - Import	1.042	1.027	1.032	1.026	1.032	829
BNTLY2 - Import	1.046	1.033	1.039	1.015	1.027	830
GUSTON - Import	1.024	1.022	1.026	1.018	1.022	831
SHEPHM - Import	1.019	1.017	1.018	1.017	1.019	832
DIGREA - Import	1.011	1.013	1.014	1.011	1.015	833
B&RLTD - Import	1.059	1.043	1.052	1.037	1.045	834
BP_OIL - Import	1.059	1.043	1.052	1.037	1.045	835
NP_LAB - Import	1.059	1.043	1.052	1.037	1.045	837
THAMEM - Import	1.059	1.043	1.052	1.037	1.045	838
TWHK66 - Import	1.059	1.043	1.052	1.037	1.045	839
BEDERF - Import	1.012	1.010	1.012	1.010	1.010	840
BESAYL - Import	1.005	1.001	1.004	1.003	1.003	841
BRAMBS - Import	1.033	1.036	1.032	1.032	1.032	842
BRELLE - Import	1.004	1.003	1.003	1.003	1.003	843
GLASSN - Import	1.003	1.000	1.003	1.000	1.001	844
NEWRID - Import	1.019	1.015	1.017	1.014	1.016	845
KM3CHP - Import	1.003	1.003	1.003	1.003	1.002	846
THAEAR - Import	1.014	1.015	1.014	1.013	1.013	850
NR_AFD - Import	1.018	1.008	1.010	1.007	1.011	851
NR_BRI - Import	1.001	1.004	1.009	1.011	1.004	852
NR_BYF - Import	1.021	1.010	1.017	1.007	1.014	853
NR_CAN - Import	1.015	1.004	1.009	1.007	1.010	854
NR_CRO - Import	1.005	1.005	1.005	1.004	1.004	855
NR_DOR - Import	1.015	1.009	1.013	1.008	1.013	856
NR_EAS - Import	1.021	1.018	1.020	1.015	1.020	857
NR_FOK - Import	1.017	1.014	1.009	1.013	1.017	858
NR_HAS - Import	1.032	1.032	1.032	1.031	1.033	859
NR_LEA - Import	1.026	1.016	1.021	1.010	1.019	860
NR_MAI - Import	1.048	1.024	1.031	1.019	1.030	861
NR_NOR - Import	1.008	1.006	1.007	1.005	1.006	862
NR_QUE - Import	1.030	1.029	1.030	1.030	1.030	863
NR_SIT - Import	1.006	1.005	1.006	1.005	1.006	864
NR_THA - Import	1.016	1.008	1.013	1.009	1.010	865
NR_3BR - Import	1.027	1.021	1.017	1.012	1.020	866
NR_TUN - Import	1.032	1.024	1.027	1.015	1.022	867
AYLESF - Import	1.005	1.003	1.005	0.996	1.004	868
GAT_AF - Import	1.033	1.027	1.032	1.025	1.041	869
GAT_BF - Import	1.028	1.020	1.040	1.019	1.036	870
BRETSH - Import	1.044	1.042	1.044	1.043	1.043	871
CRYENG - Import	1.001	1.001	1.001	1.001	1.001	872
EUROTU - Import	1.011	1.011	1.011	1.011	1.011	874
GROVEH - Import	1.017	1.019	1.018	1.019	1.019	875
HANSTA - Import	1.054	1.049	1.053	1.050	1.052	876
KENTIS - Import	1.033	1.030	1.031	1.031	1.030	877
LCHEYI - Import	1.019	1.015	1.017	1.014	1.016	878
NR_ASH - Import	1.008	1.007	1.007	1.005	1.007	879
PFIZER - Import	0.993	0.995	0.989	0.995	0.994	881
STAREN - Import	1.019	1.015	1.017	1.014	1.016	883
THAMES - Import	1.013	1.010	1.012	1.010	1.012	884
WRGALL - Import	1.032	1.073	1.082	1.073	1.079	887
SENTIV - Import	1.015	1.013	1.016	1.014	1.014	888
BEDDIN - Import	1.037	1.028	1.028	1.028	1.028	889
BNTLEY - Import	1.059	1.035	1.054	1.041	1.045	890
BOBBNG - Import	1.020	1.019	1.020	1.019	1.019	891
CAPELG - Import	1.054	1.053	1.056	1.043	1.031	893
CLYHLL - Import	1.026	1.020	1.019	1.017	1.019	894
FORDSF - Import	1.010	1.006	1.008	1.008	1.009	895
MARSHB - Import	1.014	1.010	1.013	1.011	1.012	896
MVVRID - Import	1.025	1.020	1.022	1.021	1.023	897
ORCHRD - Import	1.036	1.037	1.035	1.036	1.034	898

PRIORS - Import	1.026	1.019	1.028	1.018	1.022	899
SELLSF - Import	1.006	1.006	1.006	1.006	1.006	900

EHV site specific LLFs						
Generation						
Site	Period 1	Period 2	Period 3	Period 4	Period 5	Associated LLFC
THAMEM - Export	1.059	1.043	1.052	1.037	1.045	691
TWHK66 - Export	1.059	1.043	1.052	1.037	1.045	692
BEDERF - Export	0.998	1.000	0.997	0.997	0.997	693
BESAYL - Export	0.999	1.000	1.000	1.000	1.000	694
BRAMBS - Export	1.001	1.000	1.000	0.997	1.000	695
BRELLE - Export	0.999	0.998	0.999	0.999	0.999	696
GLASSN - Export	0.993	0.999	0.999	0.999	0.999	697
NEWRID - Export	1.000	0.999	1.000	1.000	1.000	698
KM3CHP - Export	1.006	1.005	1.006	1.004	1.005	699
NEWHVN - Export	1.014	1.009	1.013	1.009	1.011	700
HORAMS - Export	1.056	1.037	1.037	1.030	1.045	701
WDLNDS - Export	1.000	0.994	0.996	0.999	0.995	702
PSHLEY - Export	1.007	1.002	1.002	1.003	1.002	703
DSCPRK - Export	0.992	0.996	0.993	0.996	0.995	704
BOBBNG - Export	1.004	1.003	1.002	1.002	1.005	705
CAPELG - Export	1.024	1.015	1.019	1.014	1.017	706
FORDSF - Export	1.011	1.003	1.004	1.006	1.005	707
GUSTON - Export	1.007	1.005	1.006	1.007	1.008	708
MARSHB - Export	1.010	1.000	1.000	1.003	0.998	709
MVVRID - Export	0.995	0.995	0.995	0.995	0.995	710
TONGSF - Export	1.004	1.004	1.003	1.004	1.004	711
BNTLY2 - Export	1.033	1.024	1.027	1.019	1.034	712
BNTLEY - Export	1.039	1.025	1.027	1.020	1.033	713
WIDHFM - Export	1.027	1.022	1.025	1.022	1.029	714
WLBES - Export	1.017	1.010	1.011	1.012	1.014	715
CLYHLL - Export	1.012	1.009	1.009	1.007	1.012	716
PRIORS - Export	1.009	1.006	1.007	1.006	1.009	717
SHEPHM - Export	1.008	1.004	1.008	1.004	1.006	718
POSHWF - Export	1.006	1.004	1.004	1.002	1.003	719
SELLSF - Export	1.001	1.000	1.000	1.002	1.000	720
LCHEYI - Export	0.988	0.990	0.988	0.989	0.989	721
KENTIS - Export	1.001	0.999	1.000	0.999	1.000	722
PFIZER - Export	1.019	1.015	1.017	1.014	1.016	724
AYLESF - Export	1.003	1.002	1.002	1.002	1.001	725
BRETSH - Export	1.006	1.003	1.005	1.002	1.004	726
GROVEH - Export	1.000	1.000	1.000	1.000	1.000	727
HANSTA - Export	0.977	0.975	0.976	0.975	0.978	728
STAREN - Export	1.019	1.015	1.017	1.014	1.016	729
CRYENG - Export	0.999	0.999	0.999	0.999	0.999	730
WRGALL - Export	1.037	1.024	1.035	1.025	1.032	731
THAMES - Export	1.019	1.015	1.017	1.014	1.016	732
THAEAR - Export	1.000	0.998	0.999	0.997	0.999	733
ASHGEN - Export	0.988	0.994	0.991	0.995	0.992	734
KNWLTN - Export	1.007	0.997	1.001	1.004	0.999	735
LENHAM - Export	1.025	1.017	1.026	1.018	1.019	736
SYCAMR - Export	1.018	1.002	1.010	1.010	1.005	737
BRKHST - Export	0.992	0.975	0.976	0.973	0.974	738
OLDRSF - Export	0.998	0.982	0.986	0.998	0.983	739
WSTWDX - Export	1.006	1.004	1.003	1.005	1.003	740
ASHBYS - Export	1.022	1.011	1.013	1.010	1.017	741
BTBRKS - Export	0.995	0.989	0.992	0.997	0.990	742
FRWOOD - Export	1.002	1.002	1.002	1.001	1.004	743
HADLOW - Export	1.011	1.009	1.009	1.010	1.011	744
HLLMBY - Export	0.999	0.996	0.998	0.999	0.997	745
KENT12 - Export	1.000	1.000	0.999	1.000	1.000	746
LBOURN - Export	1.008	1.000	1.002	1.003	1.001	747

LGHTON - Export	1.008	1.006	1.008	1.007	1.009	748
MLMAYN - Export	1.006	0.991	0.995	1.005	0.993	749
THORNE - Export	1.000	0.999	0.999	1.000	0.999	750
MLEHLL - Export	1.001	1.000	1.000	1.000	1.000	751
OAKLND - Export	1.014	1.006	1.008	1.008	1.010	752
ORCHRD - Export	1.003	0.999	1.002	1.002	1.001	753
PADWSF - Export	1.017	1.010	1.009	1.009	1.010	754
SOLEES - Export	0.999	0.994	0.996	0.999	0.995	755

CVA site specific LLFs						
MSID	Site	Period 1	Period 2	Period 3	Period 4	Period 5
1032	Dartford J DSCP	1.018	1.014	1.017	1.013	1.015
1630	Bromley DSCP	1.006	1.005	1.006	1.005	1.006
7104	Shoreham Power Station - Export	1.004	1.000	1.003	1.000	1.003
7105	Shoreham Power Station - Import	1.057	1.042	1.051	1.036	1.044
7160	Sevington District Energy	1.059	1.043	1.052	1.037	1.045

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).

Annex 6 - Charges for New or Amended Designated EHV Properties

South Eastern Power Networks - Effective from 1 April 2021 - Final new designated EHV charges															
Effective from date	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)
01/04/2021	ANMSTR	873	1900091919588	ANMSTR	780	1900091919597	ANMSTR	0.732	35.87	1.78	1.78	-1,238	956.47	0.05	0.05
01/04/2021	GLASSN	844	1900091523301	GLASSN	697	1900091523310	GLASSN		384.06	0.67	0.67		384.06	0.05	0.05

South Eastern Power Networks - Effective from 1 April 2021 - Final new designated EHV line loss factors																	
Effective from date	Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import LLF period 1	Import LLF period 2	Import LLF period 3	Import LLF period 4	Import LLF period 5	Export LLF period 1	Export LLF period 2	Export LLF period 3	Export LLF period 4	Export LLF period 5
01/04/2021	ANMSTR	873	1900091919588	ANMSTR	780	1900091919597	ANMSTR	1.019	1.015	1.017	1.014	1.016	1.019	1.015	1.017	1.014	1.016

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 7 - Schedule of Charges to recover Excess Supplier of Last Resort pass-through costs

**South Eastern Power Networks - Effective from 1 April 2021 - Final Supplier of Last Resort and Eligible Bad Debt Pass-Through Costs**

Tariff name	Open LLFCs / LDNO unique billing identifier	PCs	Supplier of Last Resort Fixed charge adder* p/MPAN/day	Excess Supplier of Last Resort Fixed charge adder** p/MPAN/day	Eligible Bad Debt Fixed charge adder*** p/MPAN/day
Domestic Aggregated	1, 100, 300	1, 2 or 0	0.01		0.19
Non-Domestic Aggregated	120, 200, 201, 202, 203, 204, 320, 480	3-8 or 0			0.19
LV Site Specific	71, 72, 73, 74, 550	0			0.19
LV Sub Site Specific	81, 82, 83, 84, 756	0			0.19
HV Site Specific	91, 92, 93, 94, 650	0			0.19
LV Site Specific Storage Import	19, 70	0			0.19
LV Sub Site Specific Storage Import	79, 80	0			0.19
HV Site Specific Storage Import	89, 90	0			0.19
LDNO LV: Domestic Aggregated	A00	1, 2 or 0	0.01		0.19
LDNO LV: Non-Domestic Aggregated	C00, C01, C02, C03, C04	3-8 or 0			0.19
LDNO LV: LV Site Specific	E01, E02, E03, E04	0			0.19
LDNO LV: LV Site Specific Storage Import	E00	0			0.19
LDNO HV: Domestic Aggregated	A10	1, 2 or 0	0.01		0.19
LDNO HV: Non-Domestic Aggregated	C10, C11, C12, C13, C14	3-8 or 0			0.19
LDNO HV: LV Site Specific	E11, E12, E13, E14	0			0.19
LDNO HV: LV Sub Site Specific	J11, J12, J13, J14	0			0.19
LDNO HV: HV Site Specific	K11, K12, K13, K14	0			0.19
LDNO HV: LV Site Specific Storage Import	E10	0			0.19
LDNO HV: LV Sub Site Specific Storage Import	J10	0			0.19
LDNO HV: HV Site Specific Storage Import	K10	0			0.19
LDNO HVplus: Domestic Aggregated	A20	1, 2 or 0	0.01		0.19
LDNO HVplus: Non-Domestic Aggregated	C20, C21, C22, C23, C24	3-8 or 0			0.19
LDNO HVplus: LV Site Specific	E21, E22, E23, E24	0			0.19
LDNO HVplus: LV Sub Site Specific	J21, J22, J23, J24	0			0.19
LDNO HVplus: HV Site Specific	K21, K22, K23, K24	0			0.19
LDNO HVplus: LV Site Specific Storage Import	E20	0			0.19
LDNO HVplus: LV Sub Site Specific Storage Import	J20	0			0.19
LDNO HVplus: HV Site Specific Storage Import	K20	0			0.19
LDNO EHV: Domestic Aggregated	A30	1, 2 or 0	0.01		0.19
LDNO EHV: Non-Domestic Aggregated	C30, C31, C32, C33, C34	3-8 or 0			0.19
LDNO EHV: LV Site Specific	E31, E32, E33, E34	0			0.19



Tariff name	Open LLFCs / LDNO unique billing identifier	PCs	Supplier of Last Resort Fixed charge adder* p/MPAN/day	Excess Supplier of Last Resort Fixed charge adder** p/MPAN/day	Eligible Bad Debt Fixed charge adder*** p/MPAN/day
LDNO EHV: LV Sub Site Specific	J31, J32, J33, J34	0			0.19
LDNO EHV: HV Site Specific	K31, K32, K33, K34	0			0.19
LDNO EHV: LV Site Specific Storage Import	E30	0			0.19
LDNO EHV: LV Sub Site Specific Storage Import	J30	0			0.19
LDNO EHV: HV Site Specific Storage Import	K30	0			0.19
LDNO 132kV/EHV: Domestic Aggregated	A40	1, 2 or 0	0.01		0.19
LDNO 132kV/EHV: Non-Domestic Aggregated	C40, C41, C42, C43, C44	3-8 or 0			0.19
LDNO 132kV/EHV: LV Site Specific	E41, E42, E43, E44	0			0.19
LDNO 132kV/EHV: LV Sub Site Specific	J41, J42, J43, J44	0			0.19
LDNO 132kV/EHV: HV Site Specific	K41, K42, K43, K44	0			0.19
LDNO 132kV/EHV: LV Site Specific Storage Import	E40	0			0.19
LDNO 132kV/EHV: LV Sub Site Specific Storage Import	J40	0			0.19
LDNO 132kV/EHV: HV Site Specific Storage Import	K40	0			0.19
LDNO 132kV: Domestic Aggregated	A50	1, 2 or 0	0.01		0.19
LDNO 132kV: Non-Domestic Aggregated	C50, C51, C52, C53, C54	3-8 or 0			0.19
LDNO 132kV: LV Site Specific	E51, E52, E53, E54	0			0.19
LDNO 132kV: LV Sub Site Specific	J51, J52, J53, J54	0			0.19
LDNO 132kV: HV Site Specific	K51, K52, K53, K54	0			0.19
LDNO 132kV: LV Site Specific Storage Import	E50	0			0.19
LDNO 132kV: LV Sub Site Specific Storage Import	J50	0			0.19
LDNO 132kV: HV Site Specific Storage Import	K50	0			0.19
LDNO 0000: Domestic Aggregated	A60	1, 2 or 0	0.01		0.19
LDNO 0000: Non-Domestic Aggregated	C60, C61, C62, C63, C64	3-8 or 0			0.19
LDNO 0000: LV Site Specific	E61, E62, E63, E64	0			0.19
LDNO 0000: LV Sub Site Specific	J61, J62, J63, J64	0			0.19
LDNO 0000: HV Site Specific	K61, K62, K63, K64	0			0.19
LDNO 0000: LV Site Specific Storage Import	E60	0			0.19
LDNO 0000: LV Sub Site Specific Storage Import	J60	0			0.19
LDNO 0000: HV Site Specific Storage Import	K60	0			0.19

\*Supplier of Last Resort pass-through costs which are recovered on a two year lag allocated to all domestic tariffs with a fixed charge (including LDNO)

\*\*Supplier of Last Resort pass-through costs which are not recovered on a two year lag allocated to all domestic tariffs with a fixed charge (including LDNO)

\*\*\*Eligible Bad Debt pass-through costs allocated to all metered demand tariffs (including LDNO)