

# Eastern Power Networks plc

## Use of System Charging Statement

**Notice of Charges**

**Effective from 1 April 2020**

Version 3.3



## Version Control

Version	Date	Description of version and any changes made
V1.0	19/12/2018	Final Charges
V1.1	30/04/2019	Update to Annexes 2 & 6
V2.0	22/10/2019	Annex 5 populated with post audit losses subject to BSC Panel approval. Updates to Annexes 2 & 6
V3.0	14/02/2020	Annex 4 updated with revised LDNO HV demand tariffs following Ofgem direction (13th February 2020)  Annex 6 updated with new sites
V3.1	01/04/2020	Updates to LLFCs and tariff names in Annexes 2 & 6 New LLFCs added to Annex 1 New sites added to Annex 6
V3.2	12/05/2020	New LLFCs added and names updated in Annex 5 Update to LLFCs in Annex 2 New site added to Annex 6
V3.3	10/06/2020	Update to section 7 for arrangements for supplier liquidity

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; and
  - Extra High Voltage (EHV) Distribution Charging Methodology (EDCM); for Designated EHV Properties as per DCUSA Schedule 18.
- 1.4. Separate charges are calculated depending on the characteristics of the connection and whether the use of the Distribution System is for demand or generation purposes. Where a generation connection is seen to support the Distribution System the charges will be negative and the Supplier will receive credits for exported energy.
- 1.5. The application of charges to premises can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on how to identify and calculate the charge that will apply for your premises is provided in the guidance notes in Appendix 2.
- 1.6. All charges in this statement are shown **exclusive** of VAT. Invoices will include VAT at the applicable rate.
- 1.7. The annexes that form part of this statement are also available in spreadsheet format. This spreadsheet contains supplementary information used for charging purposes and a simple model to assist you to calculate charges. This spreadsheet can be downloaded from [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk).

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

<sup>2</sup> 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 <http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Documents.aspx>

### 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. 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

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



## 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 an MPAN, and the units consumed within the time periods specified in this statement. These time periods may not necessarily be the same as those indicated by the Time Pattern 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); more than one kWh charge may apply depending on 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 Unrestricted' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'Domestic Unrestricted' fixed and unit charges will be applied for each invalid SSC/TPR combination.
- 2.13. The time periods for unit charges where the Metering System is Measurement Class A or B are as specified by the SSC. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spreadsheet that accompanies this statement<sup>4</sup>.

<sup>4</sup>Eastern Power Networks- Schedule of charges and other tables – 2020 V3.2.xlsx

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

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

- 2.16. The site-specific billing and payment approach makes use of HH metering data at premises level received through Settlement.
- 2.17. 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.
- 2.18. 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.
- 2.19. 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**

- 2.20. Site-specific billed charges 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;
  - unit charges, pence/kWh, more than one unit charge may be applied; and
  - an excess reactive power charge, pence/kilovolt-ampere reactive hour (kVArh), for each unit in excess of the reactive charge threshold.
- 2.21. 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.
- 2.22. 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.
- 2.23. LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.24. For LV and HV Designated Properties that utilise a combination of Intermittent and Non-Intermittent generation technologies metered through a single MPAN/MSID, we will allocate the tariff based on the dominant technology. The dominant technology will have a higher combined installed capacity as evidenced in ratings contained in the Connection Agreement.
- 2.25. Designated EHV Properties will be charged in accordance with the EDCM and allocated the relevant charge structure set out in Annex 2.
- 2.26. Where LV and HV Designated Properties or Designated EHV Properties have more than one point of connection (as identified in the Connection Agreement) then separate charges will be applied to each point of connection.
- 2.27. Due to the seasonal nature of charges for Unmetered Supplies, changes between Measurement Classes B and D (or vice versa) shall not be agreed except with effect from 1 April in any charging year.

### **Time periods**

- 2.28. The time periods for the application of unit charges to LV and HV Designated Properties that are HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.
- 2.29. 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.
- 2.30. The time periods for the application of unit charges to Unmetered Supply exit points that are pseudo HH metered are detailed in Annex 1. We have not issued a notice to change the time bands.

### **Application of capacity charges**

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

### **Chargeable capacity**

- 2.32. The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.33. 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.

- 2.34. 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.
- 2.35. 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 paragraph 1.12.

### **Exceeded capacity**

- 2.36. 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)

- 2.37. 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 occurring at times of kWh import are summated prior to the calculation above.
- 2.38. 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)

- 2.39. 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.
- 2.40. 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

- 2.41. 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

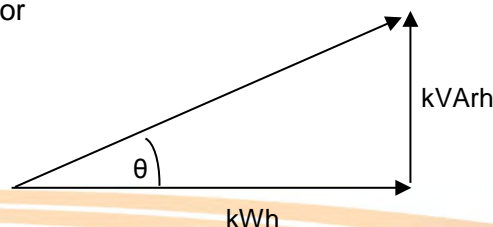
- 2.42. There is no minimum capacity threshold.

### Application of charges for excess reactive power

- 2.43. 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.

- 2.44. Power Factor is calculated as follows:

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



2.45. 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)

2.46. 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.

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

2.48. 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)

2.49. 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.

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

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

## **Incorrectly allocated charges**

- 2.52. 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. Where an MPAN/MSID is used for export purposes in relation to an LV or HV Designated Property, the type of generation (Intermittent or Non-Intermittent) also determines the allocation of charges.
- 2.53. 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.
- 2.54. The Supplier determines and provides us with the metering information and data. This enables us to allocate charges where there is more than one charge per voltage level. The metering information and data is likely to change over time if, for example, a Supplier changes from a two rate meter to a single rate meter. When we are notified this has happened we will change the allocation of charges accordingly.
- 2.55. 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.
- 2.56. Where it has been identified that a charge may have been incorrectly allocated due to the voltage of connection, import/export details or metering location, then a request to investigate the applicable charges should be made to us. Requests from persons other than the Customer or the current Supplier must be accompanied by a Letter of Authority from the Customer; the current Supplier must also acknowledge that they are aware a request has been made. Any request must be supported by an explanation of why it is believed that the current charge should be changed, along with supporting information including, where appropriate, photographs of metering positions or system diagrams. Any request to change the current charge that also includes a request for backdating must include justification as to why it is considered appropriate to backdate the change.
- 2.57. 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.
- 2.58. 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 the request; whichever is the shorter.

- 2.59. Any credit or additional charge will be issued to the relevant Supplier(s) effective during the period of the change.
- 2.60. Should we reject the request (as per paragraph 2.56) 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**

2.61. 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 use of system charges for generation from the next charging year following the expiry of their 25 years' exemption, (starting 1st April)), or
- the person responsible for the Designated EHV Property has provided notice to us that they wish to opt in to UoS charges for generation.

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

2.63. 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.

2.64. 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.

- 2.65. 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).
- 2.66. 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**

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

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

- 2.68. Licensed Distribution Network Operator (LDNO) charges are applied to LDNOs who operate Embedded Networks within our Distribution Services Area.
- 2.69. The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the 'All-the-way' charge and is dependent upon the voltage of connection of each embedded network to our Distribution System. The relevant charge structures are set out in Annex 4.
- 2.70. Where a NHH metered MPAN has an invalid Settlement combination, the 'LDNO HV: Domestic Unrestricted' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'LDNO HV: Domestic Unrestricted' fixed and unit charges will be applied for each invalid SSC/TPR combination.
- 2.71. 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.
- 2.72. For Nested Networks the relevant charging principles set out in DCUSA Schedule 21 will apply.

### **Licence exempt distribution networks**

- 2.73. The Electricity and Gas (Internal Market) Regulations 2011<sup>6</sup> introduced new obligations on owners of licence exempt distribution networks (sometimes called

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

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

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

- 2.74. 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.
- 2.75. Licence exempt distribution networks owners can provide third party access using either full settlement metering or the difference metering approach.

#### **Full settlement metering**

- 2.76. 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.
- 2.77. In this approach our UoS charges will be applied to each MPAN.

#### **Difference metering**

- 2.78. This is where one or more, but not all, Customers on a licence exempt distribution network choose their own Supplier for electricity supply to their premises. Under this approach, the Customers requiring third party access on the licence exempt distribution network will have their own MPAN and must have a HH Metering System.

#### **Gross settlement**

- 2.79. 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.
- 2.80. 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”.
- 2.81. 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**

- 2.82. 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.
- 2.83. 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.

### 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.
- 4.6. The definition of EHV used for LLF purposes differs from the definition used for defining Designated EHV Properties in the EDCM. The definition used for LLF purposes can be found in our LLF methodology.
- 4.7. The Elexon website<sup>8</sup> contains more information on LLFs.

### Publication of line loss factors

- 4.8. 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.
- 4.9. 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

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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.

<sup>8</sup> The following page has links to BSCP128 and to our LLF methodology: <http://www.elexon.co.uk/reference/technical-operations/losses/>

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

to the LLFs becoming effective. Only after the completion of the audit at the end of December and BSC approval are the final LLFs published.

- 4.10. 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.
- 4.11. When using the tables in Annex 5, reference should be made to the LLFC allocated to the MPAN to find the appropriate values.

## 5. Notes for Designated EHV Properties

### EDCM nodal costs

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

### Charges for new Designated EHV Properties

- 5.3. Charges for any new Designated EHV Properties calculated after publication of the current statement will be published 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. In light of the COVID-19 pandemic, and Ofgem’s published statement of 2 June 2020 setting out arrangements to “relax network charge payment terms for suppliers”, eligible suppliers can apply for payment deferral terms for invoices dated between 2 June 2020 and 2 September 2020. For more details and instruction on how to apply – please see

<https://www.energynetworks.org/electricity/regulation/supplier-credit.html>

- 7.3. Our administration charges are detailed in the following table. These charges are set at a level which is in line with the Late Payment of Commercial Debts Act;

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

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

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



## Appendix 1 - Glossary

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

Term	Definition
All-the-way Charge	A charge that is applicable to an end user rather than an LDNO. An end user in this context is a Supplier/User who has a registered MPAN or MSID and is using the Distribution System to transport energy on behalf of a Customer.
Balancing and Settlement Code (BSC)	The BSC contains the governance arrangements for electricity balancing and settlement in Great Britain. An overview document is available from <a href="http://www.elexon.co.uk/ELEXON/Documents/trading_arrangements.pdf">www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf</a> .
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.

Term	Definition																																																																																	
Distribution Connection and Use of System Agreement (DCUSA)	<p>The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain.</p> <p>It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.</p>																																																																																	
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="659 562 1396 2105"> <thead> <tr> <th data-bbox="659 562 727 622">ID</th> <th data-bbox="727 562 1043 622">Distribution Service Area</th> <th data-bbox="1043 562 1396 622">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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Term	Definition
Distribution Network Operator (DNO)	An electricity distributor that operates one of the 14 distribution services areas and in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.
Distribution System	<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.

Term	Definition
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.
Grid Supply Point (GSP)	A metered connection between the National Grid Electricity Transmission system and the licensee's distribution system at which electricity flows to or from the Distribution System.
GSP group	A distinct electrical system that is supplied from one or more GSPs for which total supply into the GSP group can be determined for each half hour.
High Voltage (HV)	Nominal voltages of at least 1kV and less than 22kV.
Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover cannot be made available on demand, in accordance with the definitions in Engineering Recommendation P2/6.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in market domain data – see <a href="https://www.elexonportal.co.uk/MDDVIEWER">https://www.elexonportal.co.uk/MDDVIEWER</a> .
kVA	Kilovolt ampere.
kVArh	Kilovolt ampere reactive hour.
kW	Kilowatt.
kWh	Kilowatt hour (equivalent to one “unit” of electricity).
Licensed Distribution Network Operator (LDNO)	The holder of a Licence 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>
Non-Intermittent Generation	<p>Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can be made available on demand, in accordance with the definitions in Engineering Recommendation P2/6.</p>



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

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

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

### Background

- 1.1. The electricity bill from your Supplier contains an element of charge to cover electricity distribution costs. This distribution charge covers the cost of operating and maintaining a safe and reliable Distribution System that forms the 'wires' that transport electricity between the national transmission system and end users such as homes and businesses. Our Distribution System includes overhead lines, underground cables, as well as substations and transformers.
- 1.2. In most cases, your Supplier is invoiced for the distribution charge and this is normally part of your total bill. In some cases, for example business users, the Supplier may pass through the distribution charge as an identifiable line item on the electricity bill.
- 1.3. Where electricity is generated at a 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.

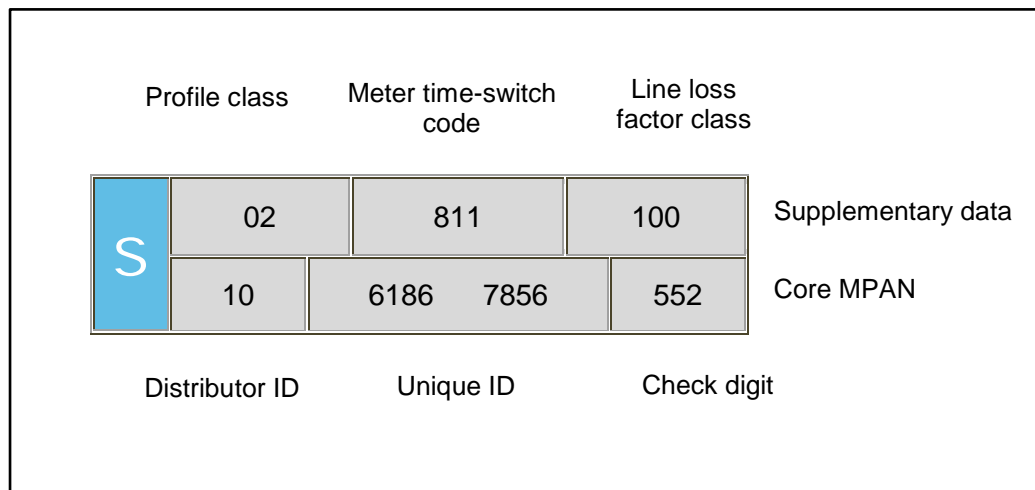
### Meter point administration

- 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 line loss factor class to identify the distribution charges for your premises. However, there are some premises where charges are specific to that site. In these instances, the charges are identified by the core MPAN. The Distributor ID for Eastern Power Networks is 10. 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 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 Extra High Voltage or connected at High Voltage and metered at a high voltage 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 (kVAr) for either demand or generation. However, the EDCM charges do reflect the effect on the network of the customer's power factor, for example unit charges can increase if your site power factor is poor (lower than 0.95). Improving your site's power factor will also reduce the maximum demand (kVA) for the same power consumed in kW thus providing scope to reduce your agreed capacity requirements.

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

## Eastern Power Networks - Effective from 1 April 2020 - Final LV and HV charges

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

Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Monday to Friday (Including Bank Holidays) March to October Inclusive		07:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are in UK Clock time		

Tariff name	Open LLFCs	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVAh	Closed LLFCs
Domestic Unrestricted	3	1	2.194			4.84				40
Domestic Two Rate	7	2	2.829	0.180		4.84				11, 25, 43, 46, 58
Domestic Off Peak (related MPAN)	22	2	0.242							29, 55, 61
Small Non Domestic Unrestricted	201	3	1.690			4.84				237, 238, 239
Small Non Domestic Two Rate	205	4	2.052	0.160		4.84				15, 49, 242, 247, 248
Small Non Domestic Off Peak (related MPAN)	64	4	0.310							33
LV Medium Non-Domestic	254	5-8	2.222	0.142		51.55				250
LV Sub Medium Non-Domestic		5-8	1.146	0.108		7.48				
HV Medium Non-Domestic		5-8	0.747	0.090		102.89				
LV Network Domestic	1	0	15.283	0.486	0.135	4.84				
LV Network Non-Domestic Non-CT	200	0	13.130	0.429	0.127	5.42				
LV HH Metered	19, 86	0	9.800	0.314	0.110	12.76	3.64	7.56	0.315	
LV Sub HH Metered	79, 80	0	7.104	0.215	0.096	7.48	5.18	6.80	0.208	
HV HH Metered	84, 89	0	5.765	0.174	0.090	102.89	4.28	6.02	0.167	
NHH UMS category A	100, 110, 150, 160	8	2.119							
NHH UMS category B	102, 112, 152, 162	1	2.943							
NHH UMS category C	103, 113, 153, 163	1	4.869							
NHH UMS category D	101, 111, 151, 161	1	1.581							
LV UMS (Pseudo HH Metered)	350	0	40.982	1.125	0.781					
LV Generation NHH or Aggregate HH	912	8 or 0	-0.983			0.00				905, 913
LV Sub Generation NHH		8	-0.869			0.00				
LV Generation Intermittent	980	0	-0.983			0.00			0.289	
LV Generation Intermittent no RP charge	981	0	-0.983			0.00				
LV Generation Non-Intermittent	982	0	-9.667	-0.259	-0.036	0.00			0.289	
LV Generation Non-Intermittent no RP charge	983	0	-9.667	-0.259	-0.036	0.00				
LV Sub Generation Intermittent	984	0	-0.869			0.00			0.255	
LV Sub Generation Intermittent no RP charge	985	0	-0.869			0.00				
LV Sub Generation Non-Intermittent	986	0	-8.618	-0.217	-0.029	0.00			0.255	
LV Sub Generation Non-Intermittent no RP charge	987	0	-8.618	-0.217	-0.029	0.00				
HV Generation Intermittent	988	0	-0.621			9.02			0.207	
HV Generation Intermittent no RP charge	989	0	-0.621			9.02				
HV Generation Non-Intermittent	990	0	-6.343	-0.120	-0.014	9.02			0.207	
HV Generation Non-Intermittent no RP charge	991	0	-6.343	-0.120	-0.014	9.02				

Note: Where a tariff only has a p/kWh unit rate in Unit Charge 1 then this unit rate applies at all times.

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

Eastern Power Networks - Effective from 1 April 2020 - 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)
3VALSW	585	1014569699836				3VALSW		2,914.69	5.30	5.30				
ABRSRF	869	1050000574685	ABRSRF	744	1050000574694	ABRSRF	0.173	18.40	1.73	1.73		3,679.33	0.05	0.05
ADBRKS	586	1023529546480				ADBRKS	0.162	3,094.55	3.51	3.51				
AIAMAN	499	1014569292506	AIAMAN	435	1030054607984	AIAMAN	0.652	8.56	8.90	8.90	-0.626	171.29	0.05	0.05
ALCORG	300	1050001015545	ALCORG	651	1050000998050	ALCORG		5.11	2.26	2.26		510.86	0.05	0.05
ARAMAN	800	1023483097981				ARAMAN		6,701.37	1.00	1.00				
ARDLGH	564	1050001061597	ARDLGH	666	1050001061602	ARDLGH	0.275	1.99	4.00	4.00		795.65	0.05	0.05
ARLAFD	587	1030081553176 1030081553404	ARLAFD	710	1030085114723 1030085114955	ARLAFD		3,312.05	1.70	1.70		1,104.02	0.05	0.05
ASTONC	503	1050000834246	ASTONC	780	1050000834255	ASTONC	1.797	2.60	3.60	3.60		520.15	0.05	0.05
AVENUE	504	1050000774970	AVENUE	781	1050000774980	AVENUE	0.071	17.30	3.24	3.24		1,124.59	0.05	0.05
AWOUSE	589	1023475403798 1014571965793				AWOUSE	3.024	179.86	2.19	2.19				
BARNFM	301	1050000774999	BARNFM	652	1050000775005	BARNFM	0.334	51.03	4.18	4.18		2,143.45	0.05	0.05
BAYFMS	870	1050000579318	BAYFMS	745	1050000579327	BAYFMS	0.107	35.35	1.55	1.55		2,827.82	0.05	0.05
BDGHSE	505	1050000669548	BDGHSE	782	1050000669539	BDGHSE		28.47	1.48	1.48		1,061.26	0.05	0.05
BDWLWF	827	1030082700415	BDWLWF	734	1030082700647	BDWLWF	0.013	33.48	1.97	1.97		4,235.20	0.05	0.05
BERDHF	302	1050001382522	BERDHF	436	1050001382531	BERDHF		1,326.00	1.14	1.14		1,325.75	0.05	0.05
BERMAT	590	1014571751895				BERMAT		89.93	5.38	5.38				
BGWDWF	871	1030083931374	BGWDWF	746	1030083931142	BGWDWF		3.42	2.33	2.33		280.64	0.05	0.05
BLCAMB	539	1050001036615	BLCAMB	653	1050001036624	BLCAMB		5.06	1.68	1.68		252.93	0.05	0.05
BLDOCK		MSID: 7308	BLDOCK		MSID: 7308	BLDOCK	1.211	37.60	1.34	1.34	-1.428	752.01	0.05	0.05
BLGTSF	534	1050000769039	BLGTSF	466	1050000769048	BLGTSF		11.87	2.52	2.52		1,127.21	0.05	0.05
BNNSHL	540	1050001021414	BNNSHL	654	1050001021423	BNNSHL	9.413	35.55	1.74	1.74		1,520.81	0.05	0.05
BOCTHA	803	1014572608412				BOCTHA	0.654	973.99	5.37	5.37				
BOXTED	506	1050000774270	BOXTED	783	1050000774289	BOXTED	0.025	1.58	2.27	2.27		256.40	0.05	0.05
BPA_CO	804	1014572578282				BPA_CO	0.168	515.97	2.64	2.64				
BPTLTD	591	1023475256360 1014572502380				BPTLTD	1.030	269.79	1.99	1.99				
BRCHGP	525	1050000961956	BRCHGP	457	1050000961965	BRCHGP	0.405	35.84	1.67	1.67		2,204.22	0.05	0.05
BROGB_	821	1030041592510 1030041592742 1030041592974 1030041593203				BROGB_	0.002	246.80	1.54	1.54				
BROXSF	872	1050000521610	BROXSF	747	1030085039971	BROXSF	1.395	11.29	6.40	6.40		2,596.82	0.05	0.05
BRTHS2	508	1050000782944	BRTHS2	785	1050000773842	BRTHS2	0.020	1.28	2.73	2.73		256.70	0.05	0.05
BRTHSS	873	1030083941266	BRTHSS	735	1030083941034	BRTHSS	0.007	2.85	2.09	2.09		255.14	0.05	0.05
BRTHSW	874	1030083918035	BRTHSW	748	1030083917802	BRTHSW	0.020	7.30	1.50	1.50		250.68	0.05	0.05
BS_BUR	805	1023485782314 1050000914910	BS_BUR	700	1023485782546 1050000914900	BS_BUR	1.249	94.86	1.41	1.41	-1.249	679.10	0.05	0.05
BS_WIS	806	1014568635628	BS_WIS	719	1023470427970	BS_WIS	0.004	25.80	1.70	1.70	-0.419	232.19	0.05	0.05
BSGBRN	507	1050000773851	BSGBRN	784	1050000773860	BSGBRN	0.001	12.89	2.07	2.07		1,546.29	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)
BTLCOM	592	1050000169030 1014572546086				BTLCOM	4.461	359.71	5.26	5.26				
BURYLN	541	1050000729676	BURYLN	786	1050000729667	BURYLN	0.002	3.13	3.00	3.00		781.27	0.05	0.05
CANTSF	875	1030082355419	CANTSF	749	1030081926920	CANTSF	0.006	23.41	1.81	1.81		1,170.64	0.05	0.05
CEMXUK	593	1014571132500 1023474247588				CEMXUK	5.242	89.93	2.63	2.63				
CHEDSF	876	1030083806488	CHEDSF	750	1030083806256	CHEDSF	0.076	8.25	3.99	3.99		1,029.32	0.05	0.05
CHFARM	542	1050000961983	CHFARM	683	1050000961992	CHFARM	1.414	49.10	2.11	2.11		2,553.27	0.05	0.05
CHPLOW	543	1050000948022	CHPLOW	655	1050000948031	CHPLOW	0.016	49.38	1.80	1.80		4,114.98	0.05	0.05
CLAYPV	303	1050001382337	CLAYPV	437	1050001382355	CLAYPV			1.49	1.49			0.05	0.05
CLDECT	544	1050000714173	CLDECT	656	1050000714182	CLDECT	0.025	11.76	1.51	1.51		2,587.79	0.05	0.05
CLFFQY	304	1050001439408	CLFFQY	438	1050001439417	CLFFQY		32.45	2.36	2.36	-0.733	2,496.19	0.05	0.05
CLRDWN	305	1050001495174	CLRDWN	439	1050001495183	CLRDWN	2.980	491.30	1.31	1.31	-3.216	491.30	0.05	0.05
CLTSHL	535	1050000841917	CLTSHL	467	1050000841926	CLTSHL	0.194	3.02	15.04	15.04		604.23	0.05	0.05
CMRODC	594	1050001068050 1050001068069				CMRODC	0.002	257.99	3.73	3.73				
COLDHA	808	1030017556367				COLDHA	0.009	25.23	1.67	1.67				
CRANHM	566	1050001191792	CRANHM	684	1050001191808	CRANHM	0.128	10.18	1.60	1.60		557.95	0.05	0.05
CROYDN	509	1050000808859	CROYDN	787	1050000808868	CROYDN	0.005	2.18	3.83	3.83		1,162.98	0.05	0.05
CRSSNG	307	1050001047087	CRSSNG	657	1050001047078	CRSSNG		1.50	7.44	7.44		749.19	0.05	0.05
CTWDFM	835	1030079565056	CTWDFM	736	1030079564823	CTWDFM		11.59	1.93	1.93		950.55	0.05	0.05
DBLANE	878	1050000612950	DBLANE	752	1050000612940	DBLANE	0.171	7.75	3.51	3.51		1,394.94	0.05	0.05
DGRLTY	595	1030050289278 1030050289506				DGRLTY	2.134	6,565.89	2.10	2.10				
DRABED	809	1014572509517				DRABED		7,771.42	1.52	1.52				
DRAPER	879	1050000581432	DRAPER	753	1050000581441	DRAPER		5.34	6.89	6.89		534.10	0.05	0.05
DRAYTN	545	1050001047272	DRAYTN	658	1050001047263	DRAYTN	2.672	11.78	1.81	1.81		530.27	0.05	0.05
DRYHSE	877	1050000609423	DRYHSE	751	1050000609380	DRYHSE	0.275	1.89	6.01	6.01		566.25	0.05	0.05
EARLHF	841	1030081316739	EARLHF	737	1030081316960	EARLHF	0.005	3.59	1.63	1.63		358.72	0.05	0.05
EBCKHM	887	1050000609441	EBCKHM	761	1050000563595	EBCKHM	0.023	2.80	15.43	15.43		534.04	0.05	0.05
EDLMUC	810	1023497822125 1023497822357 1023514863056 1030010107819				EDLMUC	0.067	11.06	2.84	2.84				
EDLPIT	811	1030020271288				EDLPIT	0.106	23.08	1.41	1.41				
EGMRSF	880	1050000567483	EGMRSF	754	1050000567492	EGMRSF	0.016	5.11	3.54	3.54		542.15	0.05	0.05
ELLOSF	881	1050000612880 1050001004933 1050001004942	ELLOSF	755	1050000612870 1050001004915 1050001004924	ELLOSF	0.070	4.72	4.13	4.13		1,085.01	0.05	0.05
ELSAGE	546	1050000923668	ELSAGE	659	1050000923677	ELSAGE	0.370	15.98	19.86	19.86		959.00	0.05	0.05
EMR_TI	813	1023475632649 1014572805060				EMR_TI	0.292	515.97	2.34	2.34				
EPRSUT	812	1023494988750	EPRSUT	705	1023503165023	EPRSUT	1.258	255.86	1.52	1.52	-1.334	1,944.53	0.05	0.05
ERNUNN	308	1050001440510	ERNUNN	441	1050001440529	ERNUNN		18.98	1.73	1.73	-0.096	1,459.68	0.05	0.05
ESWMID	596	1014572640842 1014572641075	ESWMID	432	1023518907371 1023518908064	ESWMID	5.671	167.87	2.64	2.64	-5.599	11.99	0.05	0.05
ESWWIX	597	1014572713989				ESWWIX	1.807	2,398.72	4.85	4.85				
EUSTSF	882	1050000628160	EUSTSF	756	1050000628170	EUSTSF	0.292	50.89	4.31	4.31		1,221.40	0.05	0.05
EXNING	510	1050000784384	EXNING	788	1050000784393	EXNING		11.87	2.71	2.71		2,848.49	0.05	0.05
EYEWFM	883	1030085019966	EYEWFM	757	1030085020190	EYEWFM	0.133	9.22	1.53	1.53		626.93	0.05	0.05
FBWTHE	817	1023507304338	FBWTHE	718	1023507304560	FBWTHE	2.817	24.29	2.38	2.38	-4.109	233.69	0.05	0.05
FENLND	511	1050000774163	FENLND	789	1050000774172	FENLND	0.823	37.36	1.95	1.95		3,735.80	0.05	0.05
FIBEYE	816	1023479132092	FIBEYE	707	1023479132320	FIBEYE	1.524	17.82	1.76	1.76	-1.978	302.97	0.05	0.05
FLYFRM	512	1050000822463	FLYFRM	790	1050000822472	FLYFRM	1.433	7.56	3.20	3.20		1,134.33	0.05	0.05
FORD_D	818	1015684515819				FORD_D		23,890.42	3.14	3.14				
FRDHVS	598	1014572810813				FRDHVS	0.748	449.64	3.52	3.52				
FUJISL	599	1023526590750 1023526590982 1023526591211				FUJISL	1.265	269.79	3.32	3.32				

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)
FWINDS	513	1050000709721	FWINDS	766	1050000709730	FWINDS		8.18	2.64	2.64		817.94	0.05	0.05
FXDFAG	474	1014572633250 1023479907422				FXDFAG	5.688	2,656.71	3.49	3.49				
FXDOYS	475	1023482441566 1023492579962				FXDOYS	5.539	2,656.71	3.49	3.49				
GDE132	514	1050000738305	GDE132	767	1050000738290	GDE132		20.59	1.61	1.61		1,027.51	0.05	0.05
GFTHRN	567	1050000903244	GFTHRN	660	1050000903253	GFTHRN	0.023	52.12	1.58	1.58	-0.260	724.65	0.05	0.05
GLASM2	865	1030083962424	GLASM2	738	1030083962656	GLASM2	0.090	44.57	1.78	1.78		2,192.68	0.05	0.05
GLASSM	814	1030024800679				GLASSM	0.114	11.48	1.82	1.82				
GLXOST	476	1014569657748 1014569657970				GLXOST	3.187	179.86	3.08	3.08				
GLXOW2	477	1023475635409 1023475634488				GLXOW2	5.130	179.86	1.94	1.94				
GLXOWR	478	1023484819994 1023475633563				GLXOWR	5.130	449.64	2.28	2.28				
GOSFLD	515	1050000714216	GOSFLD	768	1050000714207	GOSFLD	0.373	191.81	2.34	2.34		2,071.52	0.05	0.05
GREYSH	310	1050001391466	GREYSH	443	1050001391475	GREYSH	7.664	101.50	2.28	2.28	-7.999	1,979.27	0.05	0.05
GRNEND	516	1050000774215	GRNEND	769	1050000774224	GRNEND		42.83	2.25	2.25		4,283.22	0.05	0.05
GRNFRM	311	1050001003248	GRNFRM	661	1050001003257	GRNFRM	0.334	8.71	3.40	3.40		1,393.98	0.05	0.05
GRNILM	568	1050001299886	GRNILM	685	1050001299895	GRNILM	0.221	28.08	1.74	1.74		2,313.49	0.05	0.05
GRTYAR		MSID: 7111				GRTYAR		25.95	1.33	1.33				
GUNFL3		MSID: 7277	GUNFL3		MSID: 7277	GUNFL3	0.229	62.91	1.42	1.42		202.49	0.05	0.05
GUNFLT		MSID: 7211	GUNFLT			GUNFLT	0.005	117.80	1.38	1.38				
HALLFM	888	1050000834219	HALLFM	762	1050000834228	HALLFM	0.022	11.58	6.97	6.97		1,547.59	0.05	0.05
HDATTP	571	1050001197873	HDATTP	444	1050001197864	HDATTP		145.17	2.26	2.26	-1.235	967.83	0.05	0.05
HDGMSF	884	1050000521726	HDGMSF	758	1050000521735	HDGMSF	0.123	5.19	5.50	5.50		628.14	0.05	0.05
HEINZF	479	1014573127752	HEINZF			HEINZF	4.565	89.93	4.33	4.33				
HGHFLD	885	1050000563150	HGHFLD	759	1050000563169	HGHFLD	0.068	6.41	3.64	3.64		2,022.20	0.05	0.05
HHFARM	570	1050001231451	HHFARM	687	1050001231460	HHFARM	0.490	9.48	1.80	1.80		569.08	0.05	0.05
HOBACK	517	1050000708514	HOBACK	770	1050000698405	HOBACK	0.005	4.65	3.48	3.48		859.75	0.05	0.05
HOLTON	547	1050000769118	HOLTON	662	1050000769127	HOLTON	0.062	11.38	2.08	2.08		455.25	0.05	0.05
HONYSM	548	1050001036670	HONYSM	663	1050001036689	HONYSM	0.328	11.34	1.98	1.98		567.22	0.05	0.05
HRLWDC	480	1050001003372 1050001003381 1050001003390				HRLWDC		7,354.14	2.30	2.30				
HRMT_B	312	1050001324390	HRMT_B	445	1050001324405	HRMT_B		148.55	0.94	0.94		148.55	0.05	0.05
HRMT_P	569	1050001324414	HRMT_P	686	1050001324423	HRMT_P		5.83	1.74	1.74		291.28	0.05	0.05
HRSFEN	313	1050001041642	HRSFEN	689	1050001041651	HRSFEN		38.32	2.46	2.46	-0.083	3,831.54	0.05	0.05
HTFD_L	820	1014569896484				HTFD_L	0.478	1,301.19	2.51	2.51				
HYDESF	518	1050000759713	HYDESF	450	1050000759722	HYDESF	0.252	11.98	2.47	2.47		1,077.76	0.05	0.05
INFSSE	604	1099000001162 1099000001171				INFSSE		2,857.54	1.62	1.62				
JKSLNE	519	1050000556055	JKSLNE	451	1050000556046	JKSLNE	0.016	26.56	1.90	1.90		3,984.13	0.05	0.05
KLYN33		MSID: 7044				KLYN33	0.007	257.99	1.66	1.66				
KNGSLN		MSID: 7044				KNGSLN		26.09	1.63	1.63				
KNNING	520	1050000823458	KNNING	452	1050000823467	KNNING	0.690	4.48	6.47	6.47		537.57	0.05	0.05
LAKENH	482	1023504932800				LAKENH	1.008	179.86	8.35	8.35				
LBARPS	824	1014572529986				LBARPS	0.025	257.99	1.14	1.14				
LBZSNS	549	1050000687486	LBZSNS	664	1050000687495	LBZSNS	5.328	134.89	1.42	1.42	-5.529	134.89	0.05	0.05
LCKFRD	886	1050000578704	LCKFRD	760	1050000578699	LCKFRD	0.098	1.65	4.03	4.03		824.47	0.05	0.05
LDHHSF	536	1030083806024	LDHHSF	468	1030083805795	LDHHSF	0.035	5.85	2.48	2.48		557.07	0.05	0.05
LEICSQ	550	1050001008681	LEICSQ	665	1050001008690	LEICSQ		11.48	1.95	1.95		2,640.28	0.05	0.05
LEXHSF	889	1030083805563	LEXHSF	763	1030083805331	LEXHSF	0.010	6.77	1.61	1.61		644.82	0.05	0.05
LNGFRD	521	1050000698283	LNGFRD	453	1050000698247	LNGFRD		14.15	3.41	3.41		2,475.56	0.05	0.05
LNGHO2	523	1050000802936	LNGHO2	455	1050000802945	LNGHO2	0.194	23.06	1.72	1.72		1,014.52	0.05	0.05
LNGHOE	522	1050000774109	LNGHOE	454	1050000774118	LNGHOE	0.184	34.21	1.77	1.77		1,003.37	0.05	0.05
LONWST	826	1023497360519				LONWST		162.65	1.13	1.13				
LS&E_N	823	1023477604661 1014568599280				LS&E_N		1,559.17	1.57	1.57				

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LU_FIN	825	1023478728447 1023478728907				LU_FIN	0.339	515.97	2.31	2.31				
LU_MHO	864	1030059686387 1030060990025 1030060990257 1030060990489				LU_MHO		46,537.92	2.32	2.32				
LU_NEA	431	1050000907391 1050000907407 1050000907416 1050000907443				LU_NEA		49,935.07	3.33	3.33				
LWRNCE	551	1050001008645	LWRNCE	667	1050001008636	LWRNCE	4.837	18.02	2.29	2.29		1,801.95	0.05	0.05
LYONSH	572	1050001205345	LYONSH	688	1050001205354	LYONSH		2.70	2.00	2.00		588.90	0.05	0.05
MANFRM	552	1050000961361	MANFRM	668	1050000961370	MANFRM	0.283	15.74	5.80	5.80		3,421.19	0.05	0.05
MANORF	524	1050000843640	MANORF	456	1050000843659	MANORF	0.001	49.68	1.71	1.71		727.09	0.05	0.05
MDLWCK	892	1050000543223	MDLWCK	711	1050000543241	MDLWCK	0.013	39.36	1.86	1.86		5,431.81	0.05	0.05
MDWFRM	891	1050000589956	MDWFRM	765	1050000579266	MDWFRM		3.59	2.80	2.80		358.72	0.05	0.05
MELBRN	537	1050000810928	MELBRN	469	1050000810937	MELBRN		8.77	2.10	2.10		789.34	0.05	0.05
MILLDR	573	1050001197855	MILLDR	690	1050001197846	MILLDR		15.23	1.49	1.49		761.54	0.05	0.05
MILLFM	574	1050001261465	MILLFM	691	1050001261429	MILLFM	3.799	13.31	2.55	2.55		1,064.43	0.05	0.05
MINGAY	893	1050000574667	MINGAY	730	1050000574676	MINGAY		3.57	2.73	2.73		535.87	0.05	0.05
MLFLD	314	1050001060050	MLFLD	669	1050001060060	MLFLD	0.253	2.49	2.48	2.48		620.62	0.05	0.05
MLVLCM	484	1030062915127				MLVLCM	0.041	89.93	1.21	1.21				
MNBRNZ	485	1014572268249 1023498487971				MNBRNZ		1,289.29	2.82	2.82				
MOWLEM	575	1050001054233	MOWLEM	692	1050001054242	MOWLEM		23.33	1.25	1.25		933.19	0.05	0.05
MSDHOD	828	1023533706269 1023533706490				MSDHOD		3,332.61	3.25	3.25				
NEVEDN	315	1050001507449	NEVEDN	446	1050001507458	NEVEDN	0.400	439.07	1.99	1.99	-0.470	439.07	0.05	0.05
NEWHOL	807	1014569560220				NEWHOL	0.399	4,688.77	2.27	2.27				
NEWSIL	829	1030022814396 1030022814856 1030022815089 1030022814624				NEWSIL		359.71	1.70	1.70				
NEWTON	553	1050001042238	NEWTON	670	1050001042229	NEWTON	0.071	1.49	3.15	3.15		597.93	0.05	0.05
NNFKSF	894	1050000599909	NNFKSF	731	1050000599893	NNFKSF	0.025	6.75	17.22	17.22		1,002.13	0.05	0.05
NR_BAS	840	1023478020044				NR_BAS		6,927.63	3.52	3.52				
NR_COL	842	1014572898446 1030076303426	NR_COL	720	1023545945047 1030077668707	NR_COL	0.016	5,443.14	5.18	5.18		1,484.49	0.05	0.05
NR_CRW	843	1014572578742				NR_CRW	0.002	6,411.66	7.87	7.87				
NR_GRA	844	1014573096936				NR_GRA		3,205.83	3.31	3.31				
NR_HOR	845	1014572986535				NR_HOR		3,463.82	5.56	5.56				
NR_KNG	846	1014572901666				NR_KNG		3,463.82	2.45	2.45				
NR_LBR	847	1014572780683				NR_LBR		9,577.13	2.45	2.45				
NR_MAN	848	1014572821160				NR_MAN		3,463.82	3.96	3.96				
NR_MIL	849	1014573017580				NR_MIL		7,706.82	3.84	3.84				
NR_NRW	850	1014572876363				NR_NRW		3,205.83	4.10	4.10				
NR_PET	851	1014573170075				NR_PET	0.002	3,205.83	4.44	4.44				
NR_RAY	852	1014573010682				NR_RAY		6,669.65	3.07	3.07				
NR_RYE	853	1014572632104				NR_RYE		6,927.63	2.66	2.66				
NR_SED	855	1014572682017				NR_SED		6,411.66	4.28	4.28				
NR_SHN	854	1023478597119				NR_SHN	0.002	6,927.63	3.50	3.50				
NR_SPR	856	1014572602660				NR_SPR		6,927.63	5.78	5.78				
NR_STW	857	1014572719730				NR_STW	0.019	6,411.66	4.77	4.77				
NR_SUN	858	1014572853366				NR_SUN		8,190.52	2.41	2.41				
NR_TOT	859	1014573142245				NR_TOT		6,927.63	2.60	2.60				
NR_UGL	860	1014573113954				NR_UGL		3,205.83	3.74	3.74				
NR_WEL	861	1014572501466				NR_WEL		6,927.63	5.60	5.60				
NRAUTH	486	1014572907871 1023484600573				NRAUTH		179.86	3.03	3.03				

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NVASCT	890	1050000588206	NVASCT	764	1050000588215	NVASCT	13.019	28.16	2.12	2.12		513.89	0.05	0.05
NYSEIB	487	1030062357839 1030062357607				NYSEIB	0.402	5,241.03	1.95	1.95				
OLDAIR	525	1050000890756	OLDAIR	457	1050000890765	OLDAIR	0.405	13.12	1.63	1.63		244.87	0.05	0.05
OULTON	554	1050001028544	OULTON	671	1050001028553	OULTON	0.023	2.30	14.22	14.22		255.69	0.05	0.05
OUTWDS	576	1050001054190	OUTWDS	672	1050001054206	OUTWDS	0.402	5.34	1.67	1.67		961.81	0.05	0.05
PBPS_2	316	1050001368323	PBPS_2	447	1050001368332	PBPS_2		6.51	1.47	1.47		624.93	0.05	0.05
PICKEN	830	1030030431071				PICKEN	0.156	6.76	1.24	1.24				
PLMPPR	831	1030062872341 1030062872573	PLMPPR	434	1050001450466 1050001450475	PLMPPR	0.326	1,526.13	3.35	3.35	-0.313	847.85	0.05	0.05
PLYTRS	577	1050000903165	PLYTRS	693	1050000903174	PLYTRS	0.068	23.16	1.97	1.97		2,315.60	0.05	0.05
POBAIL	565	1050001118598	POBAIL	448	1050001118490	POBAIL		5.11	1.88	1.88		510.86	0.05	0.05
PP_COR	832	1014569523654				PP_COR		1,031.95	2.17	2.17				
PRECIS	488	1014572632790 1015685836242				PRECIS	1.031	179.86	8.17	8.17				
PRHMSF	895	1030085099084	PRHMSF	777	1030085040202	PRHMSF	2.118	7.09	11.48	11.48		2,125.84	0.05	0.05
PRMFDS	489	1014572860726 1023479474560				PRMFDS	1.497	179.86	6.41	6.41				
PTRBRO		MSID: 7006	PTRBRO		MSID: 7006	PTRBRO		19.52	1.51	1.51		1,874.81	0.05	0.05
QNETIC	490	1014572722956				QNETIC	0.004	89.93	3.00	3.00				
QRRNDN	526	1050000768550	QRRNDN	458	1050000768693	QRRNDN	1.698	34.31	6.65	6.65		1,029.34	0.05	0.05
RAF_AL	491	1014572929954				RAF_AL	0.990	1,199.36	5.55	5.55				
RAINHM	862	1023487353212 1023487352751				RAINHM	0.820	23.25	1.79	1.79				
RANDCS	555	1050001041962	RANDCS	673	1050001041935	RANDCS		5.62	3.15	3.15		1,292.75	0.05	0.05
RANJAC	492	1014712345991				RANJAC	0.124	89.93	3.10	3.10				
RANSON	834	1030034117745				RANSON		2.50	1.65	1.65				
REDT11	815	1030037720697 1030037258165	REDT11	708	1030037258397 1030037258625	REDT11	0.132	155.14	2.71	2.71		8,083.63	0.05	0.05
REYDON	896	1050000612816	REYDON	776	1050000612807	REYDON	0.039	3.53	2.85	2.85		564.60	0.05	0.05
RMSYSF	556	1050001036651	RMSYSF	674	1050001036660	RMSYSF	0.355	206.06	1.87	1.87		2,549.98	0.05	0.05
RMWFIL	557	1050000811220	RMWFIL	675	1050000811230	RMWFIL	0.114	9.59	1.63	1.63		767.18	0.05	0.05
RNDMHS	493	1014571768453				RNDMHS	0.040	89.93	1.93	1.93				
ROOKRY	558	1050001028465	ROOKRY	676	1050001028474	ROOKRY	1.845	5.89	1.69	1.69		252.09	0.05	0.05
ROYSTN	559	1050000996105	ROYSTN	677	1050000996114	ROYSTN		4.80	3.54	3.54		719.81	0.05	0.05
RPRLTD	494	1014569969627				RPRLTD	0.877	179.86	2.46	2.46				
SALHSE	317	1050000946025	SALHSE	678	1050000946034	SALHSE	0.288	9.18	4.93	4.93		764.78	0.05	0.05
SCMOOR	578	1050001073468 1050001073342 1050001073412 1050001073440 1050001073459	SCMOOR	694	1050001073500 1050001073510 1050001073529 1050001073538 1050001073547	SCMOOR	0.050	60.79	5.45	5.45		3,039.50	0.05	0.05
SCROBY	836	1023545564889				SCROBY	0.280	20.54	1.86	1.86				
SCTTOW	527	1050000841935	SCTTOW	459	1050000841971	SCTTOW	0.139	43.92	3.69	3.69		1,515.25	0.05	0.05
SEN1&2	612	1099000000372 1099000000381				SEN1&2		3,071.40	2.22	2.22				
SFKEFW	502	1050000628009	SFKEFW	470	1050000628018	SFKEFW		765.14	1.70	1.70	-0.260	5,313.48	0.05	0.05
SHELL_	837	1030083272428 1050001161751				SHELL_	2.416	515.97	2.06	2.06				
SHERSH		MSID: 7234	SHERSH		MSID: 7234	SHERSH		453.69	1.31	1.31		1,253.64	0.05	0.05
SNTBRE	579	1050001084200	SNTBRE	695	1050001084229	SNTBRE	2.423	1,068.26	1.94	1.94	-2.784	12,819.10	0.05	0.05
SPRIGS	897	1050000540019	SPRIGS	778	1050000540028	SPRIGS	0.278	3.82	3.44	3.44		916.19	0.05	0.05
STAGSH	838	1030037478730	STAGSH	717	1030037478509	STAGSH		186.02	1.17	1.17		3,720.35	0.05	0.05
STANS2	802	1030047519845 1030047520070				STANS2	0.018	15,115.13	2.74	2.74				
STANS3	801	1015685338293				STANS3	0.430	179.86	2.71	2.71				
STMFRD		MSID: 2035				STMFRD			4.12	4.12				
STNPTS	581	1050001232428	STNPTS	697	1050001232437	STNPTS	0.123	3.72	1.99	1.99		668.74	0.05	0.05
STOSTH	528	1050000783238	STOSTH	460	1050000759740	STOSTH	0.048	10.87	2.14	2.14		1,304.71	0.05	0.05

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STRTHL	500	1050000563372	STRTHL	775	1050000563381	STRTHL	0.037	2.48	7.62	7.62		542.18	0.05	0.05
STWBRG	898	1050000613847	STWBRG	732	1050000613856	STWBRG		5.91	2.88	2.88		1,240.31	0.05	0.05
SWNLND	580	1050001290011	SWNLND	696	1050001290020	SWNLND	3.251	7.42	1.52	1.52		607.65	0.05	0.05
TILBEM	833	1030082588170 1050000414848 1050000423105 1050001757717				TILBEM	0.061	0.00	0.00	0.00				
TILBUR	833	1023478133661 1023525729172 1023525728718	TILBUR	733	1030084129409 1030084129630 1030084129862	TILBUR	0.061	2,394.25	3.53	3.53		786.68	0.05	0.05
TILGRN	582	1050001109352	TILGRN		MSID: 7323	TILGRN	0.408	1,970.36	1.52	1.52	-0.561	16,590.41	0.05	0.05
TOGGAM	560	1050001059393	TOGGAM	679	1050001059384	TOGGAM	1.008	36.45	2.11	2.11		3,867.10	0.05	0.05
TOOLEY	561	1050000903217	TOOLEY	680	1050000903226	TOOLEY	0.380	17.28	4.10	4.10		863.82	0.05	0.05
TRNCLE	583	1050001078642	TRNCLE	698	1050001078651	TRNCLE		99.31	1.29	1.29		9,228.88	0.05	0.05
UB_EYE	495	1014573052317 1023470683505				UB_EYE	0.250	179.86	4.41	4.41				
UBS_UK	496	1030065428330 1030065428562				UBS_UK	0.173	5,522.69	1.21	1.21				
UKPRST	584	1050001052193	UKPRST	699	1050001052184	UKPRST	0.252	6.29	2.35	2.35	-0.320	251.69	0.05	0.05
VINESF	562	1050000996141	VINESF	681	1050000996150	VINESF		54.62	4.16	4.16		21,846.87	0.05	0.05
VXHALL	497	1014571158953 1014571159186 1014571159414 1014571158721				VXHALL	0.942	4,797.44	4.43	4.43				
WAIRWF	501	1050000529637	WAIRWF	779	1050000529664	WAIRWF	0.084	16.25	3.48	3.48		893.74	0.05	0.05
WARNER	498	1030076325049 1030076325270				WARNER	0.029	4,972.31	6.17	6.17				
WDLWWF	867	1030078016464	WDLWWF	742	1030078016924	WDLWWF		4.03	2.25	2.25		669.15	0.05	0.05
WDLWWW	430	1030078016696	WDLWWW	650	1030078017157	WDLWWW	0.037	4.71	1.49	1.49		666.91	0.05	0.05
WHMLWF	868	1030079196591	WHMLWF	743	1030079196820	WHMLWF		79.80	1.48	1.48		2,942.66	0.05	0.05
WIGGIN	529	1050000769145	WIGGIN	461	1050000769154	WIGGIN	0.183	12.86	2.62	2.62		1,285.52	0.05	0.05
WILLIA	819	1030027859903				WILLIA		1,191.24	2.05	2.05				
WLBHRM	530	1050000714155	WLBHRM	462	1050000714164	WLBHRM	0.127	9.54	10.05	10.05		5,722.43	0.05	0.05
WOOLLY	532	1050000555920	WOOLLY	464	1050000555910	WOOLLY	0.473	56.72	4.90	4.90		5,672.43	0.05	0.05
WRGSTE	839	1023479303448				WRGSTE	0.009	96.51	1.16	1.16				
WRYDEC	563	1050000948110	WRYDEC	682	1050000948120	WRYDEC		22.45	1.77	1.77		5,838.21	0.05	0.05
WSBRDG	531	1050000650690	WSBRDG	463	1050000650680	WSBRDG	0.471	8.50	7.73	7.73		679.61	0.05	0.05
WSTNLV	538	1050000811596	WSTNLV	471	1050000811601	WSTNLV	0.084	9.75	3.98	3.98		714.86	0.05	0.05
WTRLOO	533	1050000769163	WTRLOO	465	1050000769172	WTRLOO		6.92	3.39	3.39		691.62	0.05	0.05
WWYNDC	863	1030059750786 1030059751015				WWYNDC		20,051.48	5.00	5.00				

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

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

Eastern Power Networks - Effective from 1 April 2020 - Final LV and HV tariffs									
NHH preserved charges/additional LLFCs									
	Closed LLFCs	PCs	Unit charge 1 (NHH) p/kWh	Unit charge 2 (NHH) p/kWh	Fixed charge p/MPAN/day				
Notes:	Eastern Power Networks has no Preserved NHH Tariffs/Additional LLFC classes								

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

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

### Eastern Power Networks - Effective from 1 April 2020 - Final LDNO tariffs

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

Time Bands for Half Hourly Unmetered Properties			
	Black Time Band	Yellow Time Band	Green Time Band
Monday to Friday (Including Bank Holidays) November to February Inclusive	16:00 - 19:00	07:00 - 16:00 19:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Monday to Friday (Including Bank Holidays) March to October Inclusive		07:00 - 23:00	00:00 - 07:00 23:00 - 24:00
Saturday and Sunday All Year			00:00 - 24:00
Notes	All times are in UK Clock time		

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge pkVArh
LDNO LV: Domestic Unrestricted	101	1	1.510			3.33			
LDNO LV: Domestic Two Rate	111	2	1.947	0.124		3.33			
LDNO LV: Domestic Off Peak (related MPAN)	121	2	0.167						
LDNO LV: Small Non Domestic Unrestricted	131	3	1.163			3.33			
LDNO LV: Small Non Domestic Two Rate	141	4	1.412	0.110		3.33			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	151	4	0.213						
LDNO LV: LV Medium Non-Domestic	161	5-8	1.529	0.098		35.47			
LDNO LV: LV Network Domestic	318	0	10.517	0.334	0.093	3.33			
LDNO LV: LV Network Non-Domestic Non-CT	325	0	9.035	0.295	0.087	3.73			
LDNO LV: LV HH Metered	181	0	6.744	0.216	0.076	8.78	2.50	5.20	0.217
LDNO LV: NHH UMS category A	201	8	1.458						
LDNO LV: NHH UMS category B	201	1	2.025						
LDNO LV: NHH UMS category C	201	1	3.351						
LDNO LV: NHH UMS category D	201	1	1.088						
LDNO LV: LV UMS (Pseudo HH Metered)	211	0	28.202	0.774	0.537				
LDNO LV: LV Generation NHH or Aggregate HH	221	8 or 0	-0.983			0.00			
LDNO LV: LV Generation Intermittent	231	0	-0.983			0.00			0.289
LDNO LV: LV Generation Non-Intermittent	241	0	-9.667	-0.259	-0.036	0.00			0.289
LDNO HV: Domestic Unrestricted	102	1	1.150			2.54			
LDNO HV: Domestic Two Rate	112	2	1.483	0.094		2.54			
LDNO HV: Domestic Off Peak (related MPAN)	122	2	0.127						
LDNO HV: Small Non Domestic Unrestricted	132	3	0.886			2.54			
LDNO HV: Small Non Domestic Two Rate	142	4	1.076	0.084		2.54			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	152	4	0.163						
LDNO HV: LV Medium Non-Domestic	162	5-8	1.165	0.074		27.03			
LDNO HV: LV Network Domestic	319	0	8.013	0.255	0.071	2.54			
LDNO HV: LV Network Non-Domestic Non-CT	326	0	6.884	0.224	0.067	2.84			
LDNO HV: LV HH Metered	182	0	5.138	0.165	0.058	6.69	1.91	3.96	0.165
LDNO HV: LV Sub HH Metered	172	0	5.562	0.168	0.074	5.86	4.06	5.32	0.163
LDNO HV: HV HH Metered	192	0	5.019	0.152	0.078	89.57	3.73	5.24	0.145
LDNO HV: NHH UMS category A	202	8	1.111						
LDNO HV: NHH UMS category B	202	1	1.543						
LDNO HV: NHH UMS category C	202	1	2.553						
LDNO HV: NHH UMS category D	202	1	0.829						
LDNO HV: LV UMS (Pseudo HH Metered)	212	0	21.488	0.590	0.410				
LDNO HV: LV Generation NHH or Aggregate HH	222	8 or 0	-0.983			0.00			
LDNO HV: LV Sub Generation NHH		8	-0.869			0.00			
LDNO HV: LV Generation Intermittent	232	0	-0.983			0.00			0.289
LDNO HV: LV Generation Non-Intermittent	242	0	-9.667	-0.259	-0.036	0.00			0.289
LDNO HV: LV Sub Generation Intermittent	252	0	-0.869			0.00			0.255
LDNO HV: LV Sub Generation Non-Intermittent	262	0	-8.618	-0.217	-0.029	0.00			0.255
LDNO HV: HV Generation Intermittent	272	0	-0.621			0.00			0.207
LDNO HV: HV Generation Non-Intermittent	282	0	-6.343	-0.120	-0.014	0.00			0.207
LDNO HVplus: Domestic Unrestricted	103	1	0.996			2.20			
LDNO HVplus: Domestic Two Rate	113	2	1.284	0.082		2.20			
LDNO HVplus: Domestic Off Peak (related MPAN)	123	2	0.110						
LDNO HVplus: Small Non Domestic Unrestricted	133	3	0.767			2.20			

Note: Where a tariff only has a p/kWh unit rate in Unit Charge 1 then this unit rate applies at all times.



Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVArh
LDNO HVplus: Small Non Domestic Two Rate	143	4	0.931	0.073		2.20			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	153	4	0.141						
LDNO HVplus: LV Medium Non-Domestic	163	5-8	1.009	0.064		23.40			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	0.761	0.072		4.96			
LDNO HVplus: HV Medium Non-Domestic		5-8	0.548	0.066		75.43			
LDNO HVplus: LV Network Domestic	320	0	6.937	0.221	0.061	2.20			
LDNO HVplus: LV Network Non-Domestic Non-CT	327	0	5.960	0.195	0.058	2.46			
LDNO HVplus: LV HH Metered	183	0	4.448	0.143	0.050	5.79	1.65	3.43	0.143
LDNO HVplus: LV Sub HH Metered	173	0	4.715	0.143	0.064	4.96	3.44	4.51	0.138
LDNO HVplus: HV HH Metered	193	0	4.226	0.128	0.066	75.43	3.14	4.41	0.122
LDNO HVplus: NHH UMS category A	203	8	0.962						
LDNO HVplus: NHH UMS category B	203	1	1.336						
LDNO HVplus: NHH UMS category C	203	1	2.210						
LDNO HVplus: NHH UMS category D	203	1	0.718						
LDNO HVplus: LV UMS (Pseudo HH Metered)	213	0	18.602	0.511	0.354				
LDNO HVplus: LV Generation NHH or Aggregate HH	223	8	-0.652			0.00			
LDNO HVplus: LV Sub Generation NHH		8	-0.637			0.00			
LDNO HVplus: LV Generation Intermittent	233	0	-0.652			0.00			0.192
LDNO HVplus: LV Generation Non-Intermittent	243	0	-6.416	-0.172	-0.024	0.00			0.192
LDNO HVplus: LV Sub Generation Intermittent	253	0	-0.637			0.00			0.187
LDNO HVplus: LV Sub Generation Non-Intermittent	263	0	-6.318	-0.159	-0.021	0.00			0.187
LDNO HVplus: HV Generation Intermittent	273	0	-0.621			9.02			0.207
LDNO HVplus: HV Generation Non-Intermittent	283	0	-6.343	-0.120	-0.014	9.02			0.207
LDNO EHV: Domestic Unrestricted	104	1	0.773			1.71			
LDNO EHV: Domestic Two Rate	114	2	0.997	0.063		1.71			
LDNO EHV: Domestic Off Peak (related MPAN)	124	2	0.085						
LDNO EHV: Small Non Domestic Unrestricted	134	3	0.596			1.71			
LDNO EHV: Small Non Domestic Two Rate	144	4	0.723	0.056		1.71			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	154	4	0.109						
LDNO EHV: LV Medium Non-Domestic	164	5-8	0.783	0.050		18.17			
LDNO EHV: LV Sub Medium Non-Domestic	294	5-8	0.591	0.056		3.85			
LDNO EHV: HV Medium Non-Domestic	304	5-8	0.425	0.051		58.56			
LDNO EHV: LV Network Domestic	321	0	5.386	0.171	0.048	1.71			
LDNO EHV: LV Network Non-Domestic Non-CT	328	0	4.627	0.151	0.045	1.91			
LDNO EHV: LV HH Metered	184	0	3.454	0.111	0.039	4.50	1.28	2.66	0.111
LDNO EHV: LV Sub HH Metered	174	0	3.661	0.111	0.049	3.85	2.67	3.50	0.107
LDNO EHV: HV HH Metered	194	0	3.281	0.099	0.051	58.56	2.44	3.43	0.095
LDNO EHV: NHH UMS category A	204	8	0.747						
LDNO EHV: NHH UMS category B	204	1	1.037						
LDNO EHV: NHH UMS category C	204	1	1.716						
LDNO EHV: NHH UMS category D	204	1	0.557						
LDNO EHV: LV UMS (Pseudo HH Metered)	214	0	14.442	0.396	0.275				
LDNO EHV: LV Generation NHH or Aggregate HH	224	8	-0.507			0.00			
LDNO EHV: LV Sub Generation NHH		8	-0.495			0.00			
LDNO EHV: LV Generation Intermittent	234	0	-0.507			0.00			0.149
LDNO EHV: LV Generation Non-Intermittent	244	0	-4.982	-0.133	-0.019	0.00			0.149
LDNO EHV: LV Sub Generation Intermittent	254	0	-0.495			0.00			0.145
LDNO EHV: LV Sub Generation Non-Intermittent	264	0	-4.905	-0.124	-0.017	0.00			0.145
LDNO EHV: HV Generation Intermittent	274	0	-0.482			7.00			0.161
LDNO EHV: HV Generation Non-Intermittent	284	0	-4.925	-0.093	-0.011	7.00			0.161
LDNO 132kV/EHV: Domestic Unrestricted	105	1	0.593			1.31			
LDNO 132kV/EHV: Domestic Two Rate	115	2	0.764	0.049		1.31			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	125	2	0.065						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	135	3	0.456			1.31			
LDNO 132kV/EHV: Small Non Domestic Two Rate	145	4	0.554	0.043		1.31			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	155	4	0.084						
LDNO 132kV/EHV: LV Medium Non-Domestic	165	5-8	0.600	0.038		13.92			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.453	0.043		2.95			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.326	0.039		44.89			
LDNO 132kV/EHV: LV Network Domestic	322	0	4.128	0.131	0.036	1.31			

Note: Where a tariff only has a p/kWh unit rate in Unit Charge 1 then this unit rate applies at all times.

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVAh
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT	329	0	3.547	0.116	0.034	1.46			
LDNO 132kV/EHV: LV HH Metered	185	0	2.647	0.085	0.030	3.45	0.98	2.04	0.085
LDNO 132kV/EHV: LV Sub HH Metered	175	0	2.806	0.085	0.038	2.95	2.05	2.69	0.082
LDNO 132kV/EHV: HV HH Metered	195	0	2.515	0.076	0.039	44.89	1.87	2.63	0.073
LDNO 132kV/EHV: NHH UMS category A		8	0.572						
LDNO 132kV/EHV: NHH UMS category B		1	0.795						
LDNO 132kV/EHV: NHH UMS category C		1	1.315						
LDNO 132kV/EHV: NHH UMS category D		1	0.427						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	215	0	11.070	0.304	0.211				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH	225	8	-0.388			0.00			
LDNO 132kV/EHV: LV Sub Generation NHH		8	-0.379			0.00			
LDNO 132kV/EHV: LV Generation Intermittent	235	0	-0.388			0.00			0.114
LDNO 132kV/EHV: LV Generation Non-Intermittent	245	0	-3.818	-0.102	-0.014	0.00			0.114
LDNO 132kV/EHV: LV Sub Generation Intermittent	255	0	-0.379			0.00			0.111
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	265	0	-3.760	-0.095	-0.013	0.00			0.111
LDNO 132kV/EHV: HV Generation Intermittent	275	0	-0.370			5.37			0.123
LDNO 132kV/EHV: HV Generation Non-Intermittent	285	0	-3.775	-0.071	-0.008	5.37			0.123
LDNO 132kV: Domestic Unrestricted	106	1	0.416			0.92			
LDNO 132kV: Domestic Two Rate	116	2	0.537	0.034		0.92			
LDNO 132kV: Domestic Off Peak (related MPAN)	126	2	0.046						
LDNO 132kV: Small Non Domestic Unrestricted	136	3	0.321			0.92			
LDNO 132kV: Small Non Domestic Two Rate	146	4	0.389	0.030		0.92			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	156	4	0.059						
LDNO 132kV: LV Medium Non-Domestic	166	5-8	0.422	0.027		9.78			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.318	0.030		2.08			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.229	0.028		31.53			
LDNO 132kV: LV Network Domestic	323	0	2.900	0.092	0.026	0.92			
LDNO 132kV: LV Network Non-Domestic Non-CT	330	0	2.491	0.081	0.024	1.03			
LDNO 132kV: LV HH Metered	186	0	1.859	0.060	0.021	2.42	0.69	1.43	0.060
LDNO 132kV: LV Sub HH Metered	176	0	1.971	0.060	0.027	2.08	1.44	1.89	0.058
LDNO 132kV: HV HH Metered	196	0	1.767	0.053	0.028	31.53	1.31	1.84	0.051
LDNO 132kV: NHH UMS category A		8	0.402						
LDNO 132kV: NHH UMS category B		1	0.558						
LDNO 132kV: NHH UMS category C		1	0.924						
LDNO 132kV: NHH UMS category D		1	0.300						
LDNO 132kV: LV UMS (Pseudo HH Metered)	216	0	7.776	0.213	0.148				
LDNO 132kV: LV Generation NHH or Aggregate HH	226	8	-0.273			0.00			
LDNO 132kV: LV Sub Generation NHH		8	-0.266			0.00			
LDNO 132kV: LV Generation Intermittent	236	0	-0.273			0.00			0.080
LDNO 132kV: LV Generation Non-Intermittent	246	0	-2.682	-0.072	-0.010	0.00			0.080
LDNO 132kV: LV Sub Generation Intermittent	256	0	-0.266			0.00			0.078
LDNO 132kV: LV Sub Generation Non-Intermittent	266	0	-2.641	-0.067	-0.009	0.00			0.078
LDNO 132kV: HV Generation Intermittent	276	0	-0.260			3.77			0.087
LDNO 132kV: HV Generation Non-Intermittent	286	0	-2.651	-0.050	-0.006	3.77			0.087
LDNO 0000: Domestic Unrestricted	107	1	0.135			0.30			
LDNO 0000: Domestic Two Rate	117	2	0.174	0.011		0.30			
LDNO 0000: Domestic Off Peak (related MPAN)	127	2	0.015						
LDNO 0000: Small Non Domestic Unrestricted	137	3	0.104			0.30			
LDNO 0000: Small Non Domestic Two Rate	147	4	0.126	0.010		0.30			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	157	4	0.019						
LDNO 0000: LV Medium Non-Domestic	167	5-8	0.137	0.009		3.17			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	0.103	0.010		0.67			
LDNO 0000: HV Medium Non-Domestic		5-8	0.074	0.009		10.23			
LDNO 0000: LV Network Domestic	324	0	0.941	0.030	0.008	0.30			
LDNO 0000: LV Network Non-Domestic Non-CT	331	0	0.808	0.026	0.008	0.33			
LDNO 0000: LV HH Metered	187	0	0.603	0.019	0.007	0.79	0.22	0.47	0.019
LDNO 0000: LV Sub HH Metered	177	0	0.640	0.019	0.009	0.67	0.47	0.61	0.019
LDNO 0000: HV HH Metered	197	0	0.573	0.017	0.009	10.23	0.43	0.60	0.017
LDNO 0000: NHH UMS category A		8	0.130						
LDNO 0000: NHH UMS category B		1	0.181						

Note: Where a tariff only has a p/kWh unit rate in Unit Charge 1 then this unit rate applies at all times.

Tariff name	Unique billing identifier	PCs	Unit charge 1 (NHH) or red/black charge (HH) p/kWh	Unit charge 2 (NHH) or amber/yellow charge (HH) p/kWh	Green charge(HH) p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Exceeded capacity charge p/kVA/day	Reactive power charge p/kVAh
LDNO 0000: NHH UMS category C		1	0.300						
LDNO 0000: NHH UMS category D		1	0.097						
LDNO 0000: LV UMS (Pseudo HH Metered)	217	0	2.523	0.069	0.048				
LDNO 0000: LV Generation NHH or Aggregate HH	227	8	-0.088			0.00			
LDNO 0000: LV Sub Generation NHH		8	-0.086			0.00			
LDNO 0000: LV Generation Intermittent	237	0	-0.088			0.00			0.026
LDNO 0000: LV Generation Non-Intermittent	247	0	-0.870	-0.023	-0.003	0.00			0.026
LDNO 0000: LV Sub Generation Intermittent	257	0	-0.086			0.00			0.025
LDNO 0000: LV Sub Generation Non-Intermittent	267	0	-0.857	-0.022	-0.003	0.00			0.025
LDNO 0000: HV Generation Intermittent	277	0	-0.084			1.22			0.028
LDNO 0000: HV Generation Non-Intermittent	287	0	-0.860	-0.016	-0.002	1.22			0.028

Note: Where a tariff only has a p/kWh unit rate in Unit Charge 1 then this unit rate applies at all times.

# Annex 5 – Line Loss Factors

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

Eastern Power Networks - Illustrative LLFs for year beginning 1 April 2020					
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	1.111	1.081	1.099	1.075	1.086	1, 3, 7, 19, 22, 64, 86, 100, 101, 102, 103, 110, 111, 112, 113, 150, 151, 152, 153, 160, 161, 162, 163, 200, 201, 205, 254, 350, 901, 912, 915, 980, 981, 982, 983
Low Voltage Substation	1.08	1.061	1.072	1.057	1.064	79, 80, 902, 916, 984, 985, 986, 987
High Voltage Network	1.052	1.039	1.047	1.036	1.041	84, 89, 903, 918, 988, 989, 990, 991
High Voltage Substation	1.051	1.039	1.046	1.035	1.04	771, 791, 792
33kV Generic	1.016	1.013	1.015	1.013	1.013	796, 797
132kV Generic	1.004	1.003	1.003	1.002	1.003	798, 799

EHV site specific LLFs						
Demand						
LLFC	Site	Period 1	Period 2	Period 3	Period 4	Period 5
300	ALCORG - Import	1.016	1.013	1.015	1.013	1.013
301	BARNFM - Import	0.992	1.000	0.995	1.003	0.996
302	BERDHF - Import	1.000	1.000	1.000	1.000	1.000
303	CLAYPV - Import	1.051	1.051	1.051	1.051	1.051
304	CLFFQY - Import	1.005	1.004	1.005	1.004	1.004
305	CLRDWN - Import	1.033	1.005	1.024	1.012	1.012
307	CRSSNG - Import	1.084	1.083	1.084	1.083	1.084
308	ERNUNN - Import	1.008	1.007	1.007	1.007	1.007
310	GREYSH - Import	1.016	1.013	1.015	1.013	1.013
311	GRNFRM - Import	1.000	1.002	1.001	1.022	1.002
312	HRMT_B - Import	1.024	1.022	1.018	1.022	1.022
313	HRSPEN - Import	1.023	1.013	1.016	1.015	1.015
314	MLFLD - Import	1.020	1.014	1.018	1.017	1.019
315	NEVEDN - Import	1.004	1.002	1.003	1.003	1.002
316	PBPS_2 - Import	1.004	1.003	1.003	1.002	1.003
317	SALHSE - Import	1.008	1.006	1.007	1.006	1.007
430	WDLWWW - Import	1.032	1.027	1.030	1.028	1.030
431	LU_NEA - Import	1.013	1.012	1.013	1.012	1.013
474	FXDFAG - Import	1.051	1.039	1.046	1.035	1.040
475	FXDOYS - Import	1.051	1.039	1.046	1.035	1.040
476	GLXOST - Import	1.051	1.039	1.046	1.035	1.040
477	GLXOW2 - Import	1.051	1.039	1.046	1.035	1.040
478	GLXOWR - Import	1.051	1.039	1.046	1.035	1.040
479	HEINZF - Import	1.051	1.039	1.046	1.035	1.040
480	HRLWDC - Import	1.051	1.039	1.046	1.035	1.040
482	LAKENH - Import	1.051	1.039	1.046	1.035	1.040
484	MLVLCM - Import	1.051	1.039	1.046	1.035	1.040
485	MNBRNZ - Import	1.051	1.039	1.046	1.035	1.040
486	NRAUTH - Import	1.051	1.039	1.046	1.035	1.040
487	NYSEIB - Import	1.051	1.039	1.046	1.035	1.040
488	PRECIS - Import	1.051	1.039	1.046	1.035	1.040
489	PRMFDS - Import	1.051	1.039	1.046	1.035	1.040
490	QNETIC - Import	1.051	1.039	1.046	1.035	1.040
491	RAF_AL - Import	1.051	1.039	1.046	1.035	1.040
492	RANJAC - Import	1.051	1.039	1.046	1.035	1.040
493	RNDMHS - Import	1.051	1.039	1.046	1.035	1.040
494	RPRLTD - Import	1.051	1.039	1.046	1.035	1.040
495	UB_EYE - Import	1.051	1.039	1.046	1.035	1.040
496	UBS_UK - Import	1.051	1.039	1.046	1.035	1.040
497	VXHALL - Import	1.051	1.039	1.046	1.035	1.040
498	WARNER - Import	1.051	1.039	1.046	1.035	1.040
499	AIAMAN - Import	1.051	1.039	1.046	1.035	1.040
500	STRTHL - Import	1.050	1.023	1.039	1.037	1.044
501	WAIRWF - Import	1.057	1.056	1.056	1.056	1.054
502	SFKEFW - Import	1.056	1.050	1.015	1.072	1.036
503	ASTONC - Import	1.017	1.018	1.018	1.018	1.017
504	AVENUE - Import	1.015	1.013	1.014	1.012	1.013
505	BDGHSE - Import	1.016	1.018	1.017	1.017	1.017

506	BOXTED - Import	1.011	1.009	1.010	1.009	1.011
507	BSGBRN - Import	1.002	1.002	1.002	1.003	1.002
508	BRTHS2 - Import	0.984	0.992	0.986	0.993	0.986
509	CROYDN - Import	0.993	0.997	0.994	0.999	0.994
510	EXNING - Import	1.003	1.002	1.002	1.002	1.003
511	FENLND - Import	1.020	1.010	1.016	1.013	1.016
512	FLYFRM - Import	1.020	1.011	1.017	1.016	1.019
513	FWINDS - Import	1.013	1.012	1.013	1.012	1.013
514	GDE132 - Import	1.012	1.003	1.010	1.007	1.011
515	GOSFLD - Import	1.012	1.006	1.012	1.006	1.007
516	GRNEND - Import	1.032	1.019	1.028	1.023	1.027
517	HOBACK - Import	1.023	1.011	1.019	1.015	1.019
518	HYDESF - Import	1.031	1.025	1.028	1.025	1.029
519	JKSLNE - Import	1.058	1.046	1.057	1.049	1.052
520	KNNING - Import	1.055	1.037	1.052	1.041	1.046
521	LNGFRD - Import	1.059	1.029	1.053	1.039	1.049
522	LNGHOE - Import	1.034	1.013	1.018	1.029	1.032
523	LNGHO2 - Import	1.068	1.046	1.063	1.054	1.052
524	MANORF - Import	1.083	1.067	1.075	1.078	1.077
525	BRCHGP/OLDAIR - Import	1.047	1.015	1.012	1.035	1.040
526	QRRNDN - Import	1.092	1.066	1.080	1.073	1.075
527	SCTTOW - Import	1.050	1.038	1.047	1.040	1.045
528	STOSTH - Import	1.029	1.023	1.029	1.023	1.025
529	WIGGIN - Import	1.037	1.020	1.034	1.027	1.024
530	WLBRHM - Import	1.017	1.014	1.016	1.015	1.014
531	WSBRDG - Import	1.089	1.047	1.076	1.060	1.073
532	WOOLLY - Import	1.068	1.063	1.067	1.064	1.069
533	WTRLOO - Import	1.036	1.023	1.033	1.027	1.035
534	BLGTSF - Import	1.007	1.005	1.007	1.006	1.007
535	CLTSHL - Import	1.036	1.029	1.031	1.022	1.032
536	LDHSF - Import	1.009	1.005	1.008	1.005	1.008
537	MELBRN - Import	1.011	1.005	1.009	1.007	1.008
538	WSTNLV - Import	1.039	1.026	1.042	1.033	1.029
539	BLCAMB - Import	0.974	0.991	0.980	0.980	0.978
540	BNSHL - Import	1.055	1.030	1.045	1.036	1.044
541	BURLYN - Import	0.995	1.000	0.996	0.999	0.996
542	CHFARM - Import	1.036	1.022	1.035	1.028	1.035
543	CHPLOW - Import	1.028	1.022	1.012	1.022	1.029
544	CLDECT - Import	1.006	1.004	1.005	1.003	1.005
545	DRAYTN - Import	1.030	1.023	1.029	1.018	1.022
546	ELSAGE - Import	1.015	1.014	1.016	1.010	1.010
547	HOLTON - Import	1.020	1.019	1.020	1.018	1.019
548	HONYSM - Import	1.000	1.002	1.002	1.001	1.001
549	LBZSNS - Import	1.051	1.039	1.046	1.035	1.040
550	LEICSQ - Import	0.988	0.993	0.989	0.991	0.981
551	LWRNCE - Import	1.024	1.017	1.022	1.015	1.019
552	MANFRM - Import	1.013	1.008	1.012	1.008	1.011
553	NEWTON - Import	1.017	1.005	1.006	1.005	1.006
554	OULTON - Import	1.052	1.034	1.052	1.041	1.051
555	RANDCS - Import	1.032	1.017	1.030	0.969	1.028
556	RMSYSF - Import	0.974	0.991	0.980	0.980	0.978
557	RMWFII - Import	1.018	1.018	0.976	1.017	1.021
558	ROOKRY - Import	1.033	1.024	1.028	1.027	1.030
559	ROYSTN - Import	1.000	1.000	1.000	1.000	1.001
560	TOGGAM - Import	1.081	1.007	1.016	1.010	1.012
561	TOOLEY - Import	1.038	1.016	1.033	1.025	1.031
562	VINESF - Import	1.001	1.002	1.001	1.001	1.022
563	WRYDEC - Import	1.054	1.046	1.053	1.049	0.975
564	ARDLGH - Import	1.029	1.018	1.029	1.024	1.025
565	POBAIL - Import	1.008	1.008	1.008	1.008	1.008
566	CRANHM - Import	1.016	1.021	1.013	1.011	1.012
567	GFTHRN - Import	1.032	1.033	1.036	1.032	1.032
568	GRNILM - Import	1.014	1.008	1.014	1.011	1.012
569	HRMT_P - Import	1.024	1.022	1.018	1.022	1.022
570	HHFARM - Import	1.014	1.008	1.009	1.008	1.010
571	HDATTP - Import	1.004	1.003	1.005	1.003	1.004
572	LYONSH - Import	1.015	1.010	1.015	1.012	1.011
573	MILLDR - Import	1.039	1.031	1.036	1.028	1.027
574	MILLFM - Import	1.036	1.027	1.032	1.027	1.032
575	MOWLEM - Import	1.005	1.005	1.006	1.004	1.004
576	OUTWDS - Import	1.004	1.004	1.004	1.004	1.004
577	PLYTRS - Import	1.008	1.006	1.007	1.006	1.007
578	SCMOOR - Import	1.055	1.028	1.051	1.040	1.044
579	SNTBRE - Import	1.037	1.030	1.040	1.039	1.034
580	SWNLND - Import	1.022	1.008	1.019	1.015	1.019
581	STNPTS - Import	1.019	1.009	1.017	1.014	1.017
582	TILGRN - Import	1.005	1.005	1.005	1.005	1.005
583	TRNCLE - Import	1.026	1.024	1.026	1.025	1.025
584	UKPRST - Import	1.018	1.009	1.022	1.019	1.025
585	3VALSW - Import	1.051	1.039	1.046	1.035	1.040
586	ADBRKS - Import	1.051	1.039	1.046	1.035	1.040
587	ARLAFD - Import	1.051	1.039	1.046	1.035	1.040



589	AWOUSE - Import	1.051	1.039	1.046	1.035	1.040
590	BERMAT - Import	1.051	1.039	1.046	1.035	1.040
591	BPTLTD - Import	1.051	1.039	1.046	1.035	1.040
592	BTLCOM - Import	1.051	1.039	1.046	1.035	1.040
593	CEMKUK - Import	1.051	1.039	1.046	1.035	1.040
594	CMRODC - Import	1.016	1.013	1.015	1.013	1.013
595	DGRLTY - Import	1.051	1.039	1.046	1.035	1.040
596	ESWMID - Import	1.051	1.039	1.046	1.035	1.040
597	ESWWIX - Import	1.051	1.039	1.046	1.035	1.040
598	FRDHVS - Import	1.051	1.039	1.046	1.035	1.040
599	FUJISL - Import	1.051	1.039	1.046	1.035	1.040
612	SEN1&2 - Import	1.016	1.013	1.015	1.013	1.013
800	ARAMAN - Import	1.026	1.024	1.028	1.025	1.028
801	STANS3 - Import	1.052	1.039	1.047	1.036	1.041
802	STANS2 - Import	1.009	1.011	1.014	1.009	1.009
803	BOCTHA - Import	1.009	1.008	1.008	1.007	1.009
804	BPA_CO - Import	1.016	1.003	1.003	1.003	1.013
805	BS_BUR - Import	1.057	1.049	1.069	1.037	1.052
806	BS_WIS - Import	1.071	1.075	1.061	1.060	1.059
807	NEWHOL - Import	1.017	1.010	1.016	1.008	1.011
808	COLDHA - Import	1.019	1.015	1.018	1.016	1.017
809	DRABED - Import	1.038	1.036	1.036	1.036	1.036
810	EDLMUC - Import	1.021	1.020	1.021	1.021	1.021
811	EDLPIT - Import	1.104	1.097	1.089	1.103	1.101
812	EPRSUT - Import	1.070	1.055	1.064	1.059	1.062
813	EMR_TI - Import	1.012	1.014	1.015	1.012	1.015
814	GLASSM - Import	1.038	1.031	1.041	1.032	1.040
815	REDTII - Import	1.034	1.023	1.032	1.025	1.032
816	FIBEYE - Import	1.069	1.054	1.064	1.058	1.073
817	FBWTHE - Import	1.121	1.040	1.067	1.078	1.089
818	FORD_D - Import	1.002	1.002	1.002	1.002	1.002
819	WILLIA - Import	1.014	1.014	1.015	1.010	1.015
820	HTFD_L - Import	1.017	1.014	1.016	1.015	1.015
821	BROGB_ - Import	1.011	1.007	1.009	1.008	1.008
822	Spare - Import	1.016	1.013	1.015	1.013	1.013
823	LS&E_N - Import	1.011	1.015	1.011	1.010	1.011
824	LBARPS - Import	1.045	1.040	1.041	1.040	1.040
825	LU_FIN - Import	1.008	1.006	1.007	1.005	1.007
826	LONWST - Import	1.016	1.013	1.015	1.013	1.013
827	BDWLWF - Import	1.043	1.035	1.039	1.035	1.038
828	MSDHOD - Import	1.014	1.011	1.014	1.013	1.012
829	NEWSIL - Import	1.004	1.005	1.005	1.005	1.005
830	PICKEN - Import	1.059	1.059	1.059	1.059	1.058
831	PLMPPR - Import	0.998	0.997	0.996	0.997	0.997
832	PP_COR - Import	1.007	1.004	1.006	1.004	1.005
833	TILBEM/TILBUR - Import	1.007	1.006	1.007	1.007	1.007
834	RANSON - Import	1.076	1.030	1.058	1.047	1.055
835	CTWDFM - Import	1.030	1.024	1.026	1.024	1.026
836	SCROBY - Import	1.016	1.015	1.016	1.015	1.015
837	SHELL_ - Import	1.017	1.012	1.018	1.015	1.017
838	STAGSH - Import	1.019	1.019	1.019	1.019	1.018
839	WRGSTE - Import	1.016	1.013	1.015	1.013	1.013
840	NR_BAS - Import	1.032	1.031	1.032	1.031	1.031
841	EARLHF - Import	1.037	1.036	1.037	1.036	1.037
842	NR_COL - Import	1.015	1.011	1.026	1.017	1.017
843	NR_CRW - Import	1.020	1.017	1.019	1.016	1.015
844	NR_GRA - Import	1.016	1.013	1.015	1.013	1.013
845	NR_HOR - Import	1.006	1.006	1.006	1.006	1.006
846	NR_KNG - Import	1.022	1.022	1.023	1.023	1.023
847	NR_LBR - Import	1.019	1.016	1.018	1.015	1.017
848	NR_MAN - Import	1.031	1.021	1.023	1.020	1.021
849	NR_MIL - Import	1.016	1.014	1.015	1.012	1.014
850	NR_NRW - Import	1.009	1.010	1.009	1.009	1.009
851	NR_PET - Import	1.020	1.007	1.057	1.026	1.051
852	NR_RAY - Import	1.019	1.021	1.022	1.021	1.022
853	NR_RYE - Import	1.013	1.013	1.012	1.012	1.011
854	NR_SHN - Import	1.021	1.021	1.021	1.020	1.020
855	NR_SED - Import	1.020	1.017	1.020	1.016	1.018
856	NR_SPR - Import	1.031	1.023	1.024	1.019	1.023
857	NR_STW - Import	1.034	1.021	1.027	1.018	1.024
858	NR_SUN - Import	1.013	1.012	1.014	1.011	1.014
859	NR_TOT - Import	1.017	1.015	1.016	1.014	1.015
860	NR_UGL - Import	1.014	1.011	1.015	1.011	1.014
861	NR_WEL - Import	1.026	1.021	1.023	1.018	1.021
862	RAINHM - Import	1.015	1.008	1.016	1.006	1.011
863	WWYNDC - Import	1.012	1.013	1.012	1.012	1.012
864	LU_MHO - Import	1.013	1.011	1.012	1.011	1.012
865	GLASM2 - Import	1.085	1.080	1.095	1.083	1.087
866	ICGLTD - Import	1.004	1.003	1.004	1.003	1.004
867	WDLWWF - Import	1.041	1.033	1.038	1.036	1.037
868	WHMLWF - Import	1.019	1.017	1.017	1.017	1.018
869	ABSRSF - Import	1.026	1.012	1.024	1.019	1.025

870	BAYFMS - Import	1.031	1.015	1.026	1.017	1.029
871	BGWDWF - Import	1.036	1.024	1.033	1.024	1.028
872	BROXSF - Import	1.022	1.014	1.020	1.019	1.021
873	BRTHSS - Import	0.988	0.993	0.988	0.993	0.993
874	BRTHSW - Import	1.009	1.016	1.010	1.012	1.012
875	CANTSF - Import	0.992	0.996	0.994	0.998	0.993
876	CHEDSF - Import	1.008	1.007	1.008	1.006	1.008
877	DRYHSE - Import	1.008	1.008	1.008	1.008	1.008
878	DBLANE - Import	1.022	1.020	1.022	1.018	1.020
879	DRAPER - Import	1.022	1.022	1.023	1.020	1.022
880	EGMRSF - Import	0.986	0.992	0.988	0.988	0.986
881	ELLOSF - Import	1.005	1.003	1.005	1.004	1.005
882	EUSTSF - Import	1.051	1.025	1.044	1.037	1.047
883	EYEWFM - Import	1.065	1.055	1.061	1.048	1.057
884	HDGMSF - Import	1.026	1.022	1.032	1.024	1.025
885	HGHFLD - Import	1.042	1.020	1.035	1.018	1.033
886	LCKFRD - Import	1.055	1.027	1.048	1.040	1.052
887	EBCKHM - Import	1.039	1.029	1.034	1.023	1.034
888	HALLFM - Import	1.017	1.015	1.016	1.017	1.014
889	LEXHSF - Import	1.033	1.028	1.028	1.030	1.030
890	NVASCT - Import	1.022	1.009	1.018	1.015	1.020
891	MDWFRM - Import	1.030	1.028	1.024	1.026	1.023
892	MDLWCK - Import	1.092	1.081	1.089	1.083	1.088
893	MINGAY - Import	1.041	1.019	1.034	1.029	1.038
894	NNFKSF - Import	1.060	1.045	1.058	1.048	1.057
895	PRHMSF - Import	1.034	1.018	1.029	1.026	1.032
896	REYDON - Import	1.064	1.064	1.063	1.060	1.063
897	SPRIGS - Import	1.007	1.005	1.007	1.006	1.007
898	STWBRG - Import	1.014	1.008	1.012	1.011	1.013

**EHV site specific LLFs  
Generation**

LLFC	Site	Period 1	Period 2	Period 3	Period 4	Period 5
432	ESWMID - Export	1.051	1.039	1.046	1.035	1.040
434	PLMPPR - Export	0.996	0.997	0.997	0.997	0.997
435	AIAMAN - Export	1.051	1.039	1.046	1.035	1.040
436	BERDHF - Export	0.999	0.999	1.000	1.000	1.000
437	CLAYPV - Export	0.999	0.999	1.000	1.000	0.999
438	CLFFQY - Export	0.999	0.998	0.998	0.998	0.998
439	CLRDWN - Export	1.022	1.003	1.014	1.004	1.012
441	ERNUNN - Export	1.000	0.998	0.999	0.998	1.000
443	GREYSH - Export	1.016	1.013	1.015	1.013	1.013
444	HDATTP - Export	1.016	1.013	1.015	1.013	1.013
445	HRMT_B - Export	1.002	1.000	1.001	1.000	1.001
446	NEVEDN - Export	1.001	1.001	1.002	1.001	1.000
447	PBPS_2 - Export	1.004	1.003	1.003	1.002	1.003
448	POBAIL - Export	0.999	0.996	0.996	0.999	0.995
450	HYDESF - Export	1.008	0.996	1.003	1.004	1.000
451	JKSLNE - Export	1.004	0.994	1.007	0.994	1.003
452	KNNING - Export	1.012	1.012	1.033	1.019	1.034
453	LNGFRD - Export	1.023	1.010	1.016	1.015	1.017
454	LNGHOE - Export	1.019	0.997	1.007	1.032	1.010
455	LNGHO2 - Export	1.022	1.011	1.019	1.013	1.020
456	MANORF - Export	1.027	1.015	1.023	1.013	1.024
457	BRCHGP/OLDAIR - Export	1.024	1.007	1.022	1.066	1.026
458	QRRNDN - Export	1.055	1.022	1.046	1.025	1.029
459	SCTTOW - Export	1.021	1.015	1.018	1.017	1.021
460	STOSTH - Export	1.011	0.990	0.995	1.007	0.995
461	WIGGIN - Export	1.014	1.005	1.009	1.005	1.009
462	WLBRRM - Export	1.002	0.989	0.994	1.001	0.991
463	WSBRDG - Export	1.040	1.014	1.023	1.025	1.025
464	WOOLLY - Export	0.999	0.995	0.998	0.995	0.994
465	WTRLOO - Export	1.014	0.994	1.003	1.006	1.002
466	BLGTSF - Export	1.000	0.989	1.003	1.000	0.994
467	CLTSHL - Export	1.023	1.006	1.010	1.017	1.011
468	LDHSF - Export	1.004	0.994	0.990	0.980	0.999
469	MELBRN - Export	1.009	0.999	1.003	1.004	1.004
470	SFKEFW - Export	0.987	0.989	1.012	0.992	1.001
471	WSTNLV - Export	1.027	1.019	1.045	1.014	1.020
472	NR_KNG - Export	0.972	0.973	0.972	0.973	0.973
473	NR_MIL - Export	0.986	0.986	0.986	0.985	0.978
650	WDLWWW - Export	0.988	0.992	0.987	0.988	0.988
651	ALCORG - Export	1.016	1.013	1.015	1.013	1.013
652	BARNFM - Export	0.989	0.988	0.991	0.992	0.989
653	BLCAMB - Export	0.981	0.976	0.981	0.988	0.973
654	BNSHL - Export	1.057	1.003	1.007	1.004	1.005
655	CHPLOW - Export	0.971	0.993	0.975	0.981	0.973
656	CLDECT - Export	1.006	1.000	1.000	1.000	1.000
657	CRSSNG - Export	1.001	1.000	1.001	1.001	1.001
658	DRAYTN - Export	1.032	1.003	1.004	1.003	1.004
659	ELSAGE - Export	1.035	0.999	0.997	0.999	0.997
660	GFTHRN - Export	0.998	0.999	0.998	0.998	0.998
661	GRNFRM - Export	0.995	0.985	0.994	0.996	0.992

662	HOLTON - Export	1.000	1.001	1.003	1.001	1.003
663	HONYSM - Export	1.013	1.002	1.015	1.001	0.989
664	LBZSNS - Export	1.051	1.039	1.046	1.035	1.040
665	LEICSQ - Export	0.980	0.985	0.992	0.972	0.991
666	ARDLGH - Export	1.021	1.000	1.009	1.034	1.018
667	LWRNCE - Export	1.015	1.001	1.009	1.009	1.010
668	MANFRM - Export	1.026	0.998	1.001	1.000	1.000
669	MLLFLD - Export	1.008	1.005	1.006	1.006	1.007
670	NEWTON - Export	1.012	0.999	1.001	1.001	1.001
671	OULTON - Export	1.053	1.034	1.038	1.019	1.044
672	OUTWDS - Export	1.013	1.002	1.005	1.004	1.005
673	RANDCS - Export	1.032	0.997	1.004	0.993	1.004
674	RMSYSF - Export	0.981	0.976	0.981	0.988	0.973
675	RMWFII - Export	0.978	0.991	0.985	0.973	0.979
676	ROOKRY - Export	0.978	0.977	0.977	0.985	0.976
677	ROYSTN - Export	0.996	0.993	0.993	0.997	0.995
678	SALHSE - Export	1.003	1.001	1.001	1.001	1.002
679	TOGGAM - Export	1.068	0.994	1.000	0.999	0.997
680	TOOLEY - Export	1.041	1.012	1.021	1.012	1.017
681	VINESF - Export	0.993	0.988	0.989	0.992	0.988
682	WRYDEC - Export	0.993	0.990	1.001	0.994	0.994
683	CHFARM - Export	1.005	1.006	1.008	1.004	1.012
684	CRANHM - Export	1.006	1.003	1.004	1.005	1.001
685	GRNILM - Export	1.003	1.001	1.004	1.003	1.005
686	HRMT_P - Export	1.002	1.000	1.001	1.000	1.001
687	HHFARM - Export	1.033	1.006	1.008	1.006	1.010
688	LYONSH - Export	1.006	1.004	1.009	1.004	1.001
689	HRSFEN - Export	0.999	1.000	1.001	0.998	1.001
690	MILLDR - Export	1.009	1.002	1.000	1.007	1.000
691	MILLFM - Export	1.023	1.005	1.016	1.019	1.021
692	MOWLEM - Export	1.002	1.001	1.002	1.001	1.002
693	PLYTRS - Export	1.003	0.998	0.998	1.001	1.004
694	SCMOOR - Export	1.034	1.026	1.032	1.033	1.037
695	SNTBRE - Export	0.991	0.980	0.994	0.988	0.993
696	SWNLND - Export	1.010	1.002	1.009	1.032	1.013
697	STNPTS - Export	1.007	1.002	1.006	1.022	1.008
698	TRNCLE - Export	0.975	0.983	0.974	0.978	0.976
699	UKPRST - Export	1.023	1.002	1.020	1.012	1.019
700	BS_BUR - Export	1.012	1.005	1.010	1.005	1.012
701	BROGB - Export	0.998	0.998	0.999	1.003	0.999
702	EDLMUC - Export	1.000	0.998	1.001	0.998	1.000
703	RAINHM - Export	1.016	1.007	1.014	1.009	1.014
704	LONWST - Export	0.997	0.997	0.997	0.997	0.997
705	EPRSUT - Export	0.996	0.994	0.998	0.993	0.998
706	PICKEN - Export	1.000	1.000	0.998	1.000	1.000
707	FIBEYE - Export	1.018	1.008	1.019	1.008	1.017
708	REDTII - Export	1.001	0.996	0.998	0.995	0.999
709	GLASSM - Export	0.997	0.986	0.994	0.989	0.991
710	ARLAFD - Export	1.016	1.013	1.015	1.013	1.013
711	MDLWCK - Export	0.994	0.990	0.994	0.992	0.995
712	WRGSTE - Export	1.013	1.007	1.010	1.009	1.012
713	EDLPIT - Export	1.009	1.006	1.007	1.005	1.007
714	RANSON - Export	1.009	0.982	1.016	1.010	1.007
715	COLDHA - Export	0.988	0.993	0.985	0.989	0.987
716	SCROBY - Export	1.001	1.000	1.001	1.002	1.001
717	STAGSH - Export	0.992	0.994	0.988	0.993	0.993
718	FBWTHE - Export	1.059	0.995	1.046	1.019	1.043
719	BS_WIS - Export	1.003	1.003	1.000	0.998	1.002

720	NR_COL - Export	0.958	0.959	0.959	0.959	0.959
721	NR_CRW - Export	0.952	0.952	0.952	0.952	0.951
722	NR_BAS - Export	0.981	0.981	0.981	0.981	0.981
723	NR_MAN - Export	0.984	0.979	0.980	0.979	0.981
724	NR_NRW - Export	1.016	1.013	1.015	1.013	1.013
725	NR_RAY - Export	0.982	0.982	0.983	0.982	0.982
726	NR_SHN - Export	0.956	0.956	0.956	0.956	0.956
727	NR_SED - Export	0.985	0.984	0.985	0.984	0.984
728	NR_SPR - Export	0.984	0.981	0.983	0.980	0.982
729	NR_STW - Export	0.989	0.986	0.987	0.987	0.987
730	MINGAY - Export	1.021	1.003	1.005	1.025	1.005
731	NNFKSF - Export	1.000	1.034	1.046	1.027	1.052
732	STWBRG - Export	1.002	0.998	0.999	1.001	0.999
733	TILBUR - Export	1.002	1.001	1.001	1.001	1.001
734	BDWLWF - Export	0.990	0.992	0.988	0.989	0.990
735	BRTHSS - Export	0.985	0.986	0.985	0.991	0.984
736	CTWDFM - Export	0.994	0.994	0.993	0.993	0.994
737	EARLHF - Export	1.004	0.998	0.998	1.000	1.000
738	GLASM2 - Export	1.058	0.985	1.025	1.000	1.020
739	NR_SUN - Export	0.995	0.993	1.001	0.993	0.995
740	NR_TOT - Export	0.972	0.971	0.971	0.971	0.972
741	NR_UGL - Export	0.972	0.972	0.972	0.972	0.984
742	WDLWWF - Export	0.994	0.994	0.992	0.992	0.993
743	WHMLWF - Export	0.993	0.996	0.992	0.994	0.993
744	ABSRSF - Export	1.009	1.001	1.003	1.006	1.004
745	BAYFMS - Export	1.018	1.001	1.008	1.009	1.005
746	BGWDWF - Export	1.000	0.997	1.000	0.995	0.999
747	BROXSF - Export	1.005	0.987	0.992	1.001	0.991
748	BRTHSW - Export	0.983	0.990	0.980	0.986	0.977
749	CANTSF - Export	0.990	0.991	0.992	0.996	0.990
750	CHEDSF - Export	1.002	0.996	1.002	1.001	0.999
751	DRYHSE - Export	0.997	0.989	0.996	0.997	0.990
752	DBLANE - Export	1.014	1.005	1.008	1.006	1.010
753	DRAPER - Export	1.004	0.999	1.000	1.002	1.000
754	EGMRSF - Export	0.989	0.983	0.986	0.993	0.985
755	ELLOSF - Export	1.000	0.991	0.995	1.000	0.993
756	EUSTSF - Export	1.028	1.018	1.019	1.079	1.026
757	EYEWFM - Export	1.027	1.014	1.017	1.020	1.015
758	HDGMSF - Export	1.017	1.009	1.020	1.032	1.021
759	HGHFLD - Export	1.017	1.008	1.013	1.034	1.015
760	LCKFRD - Export	1.022	1.012	1.019	1.021	1.024
761	EBCKHM - Export	1.019	1.014	1.017	1.017	1.021
762	HALLFM - Export	1.010	1.002	1.005	1.006	1.007
763	LEXHSF - Export	0.993	0.984	1.011	0.993	1.039
764	NVASCT - Export	1.009	0.998	1.002	1.008	1.002
765	MDWFRM - Export	1.008	0.995	0.994	1.009	0.995
766	FWINDS - Export	1.004	1.003	1.003	1.002	1.003
767	GDE132 - Export	1.001	0.995	1.001	1.002	0.999
768	GOSFLD - Export	1.008	0.996	1.002	1.002	0.999
769	GRNEND - Export	1.005	0.995	0.999	1.004	0.999
770	HOBACK - Export	1.008	0.996	0.999	1.003	0.997
775	STRTHL - Export	1.024	1.010	1.010	1.008	1.019
776	REYDON - Export	1.022	1.009	1.007	1.009	1.011
777	PRHMSF - Export	1.032	1.005	1.004	0.994	1.007
778	SPRIGS - Export	1.007	1.002	1.002	1.002	1.002
779	WAIRWF - Export	1.001	1.002	1.006	1.001	0.994
780	ASTONC - Export	1.012	1.006	1.008	1.008	1.012
781	AVENUE - Export	1.008	1.003	1.004	1.005	1.006
782	BDGHSE - Export	0.993	0.995	0.991	0.993	0.992
783	BOXTED - Export	1.001	0.991	0.998	1.000	0.992
784	BSGBRN - Export	0.997	0.988	0.996	0.997	0.989
785	BRTHS2 - Export	0.985	0.984	0.983	0.989	0.960
786	BURLYN - Export	0.996	0.992	0.995	0.996	0.993
787	CROYDN - Export	0.988	0.985	0.990	0.995	0.986
788	EXNING - Export	0.997	0.989	0.992	0.998	0.989
789	FENLND - Export	0.986	0.978	0.982	0.991	0.975
790	FLYFRM - Export	1.009	1.003	1.004	1.006	1.004

CVA site specific LLFs						
MSID	Site	Period 1	Period 2	Period 3	Period 4	Period 5
1413	NORM_1	0.999	1.000	1.000	0.999	1.000
1414	NORM_1	0.999	1.000	0.999	1.000	0.999
1419	SUND_1	1.000	1.000	1.000	1.000	1.000
1440	AMEM_1	1.005	1.003	1.004	1.003	1.003
1622	BARCK_A	1.005	1.004	1.005	1.003	1.004
2035	STMFRD	1.006	1.003	1.005	1.004	1.005
7006	PTRBRO	0.993	0.986	0.995	0.997	0.996
7044	KLYN33/KNGSLN	1.001	0.999	1.001	1.001	1.001
7074	T_EECL-1	1.052	1.039	1.047	1.036	1.041
7111	GRTYAR	0.995	1.000	0.993	0.991	0.994
7277	GUNFL3	1.017	1.007	1.019	1.010	1.017
7308	BLDOCK	1.006	1.001	1.003	1.002	1.003

7309	BLDOCK	1.010	1.009	1.011	1.010	1.011
7323	TILGRN	0.998	0.998	0.998	0.998	0.998
7369	E_PEAKGEN	1.052	1.039	1.047	1.036	1.041



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

Annex 6 - Charges for New or Amended Designated EHV Properties

Eastern Power Networks - Effective from 1 April 2020 - Final new designated EHV charges

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
ARLBES		MSID: 7401	ARLBES		MSID: 7402	ARLBES		1,700.44	1.27	1.27	-0.002	1,700.44	0.05	0.05
AW_GRA	588	1014571445536 1023477037942	AW_GRA	400	1050001872410 1050001872400	AW_GRA	4.441	89.93	4.22	4.22		0.00	0.05	0.05
CAVDRD	429	1050001791569	CAVDRD	773	1050001791578	CAVDRD	0.816	31.13	1.46	1.46	-1.031	785.64	0.05	0.05
COMBRN	306	1050001662241	COMBRN	440	1050001662250	COMBRN	0.473	12.57	4.90	4.90		1,546.27	0.05	0.05
GOOSFM	309	1050001727953	GOOSFM	442	1050001727962	GOOSFM		12.23	2.13	2.13		2,139.61	0.05	0.05
LITSTA	427	1050001858070	LITSTA	648	1050001858080	LITSTA	0.132	33.85	2.16	2.16		6,770.00	0.05	0.05
MOLLAV	428	1050001620710	MOLLAV	774	1050001620720	MOLLAV		9.12	1.38	1.38	-0.101	911.78	0.05	0.05
RAINDC	483	1050001877738 1050001878244	RAINDC	772	1050001877747 1050001878253	RAINDC		19,016.97	2.14	2.14		11,861.83	0.05	0.05
ICGLTD	866	1030075706342	ICGLTD	649	1050001431630	ICGLTD		947.65	1.97	1.97			0.05	0.05
STA33E	802	1050001977780				STA33E	0.018	0.00	0.00	0.00				

Eastern Power Networks - Effective from 1 April 2020 - Final new designated EHV line loss factors

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
ARLBES	604	MSID: 7401	ARLBES	612	MSID: 7402	ARLBES	1.004	1.003	1.003	1.002	1.003	1.004	1.003	1.003	1.002	1.003
AW_GRA	588	1014571445536 1023477037942	AW_GRA	400	1050001872410 1050001872400	AW_GRA	1.051	1.039	1.046	1.035	1.040	1.051	1.039	1.046	1.035	1.040
CAVDRD	429	1050001791569	CAVDRD	773	1050001791578	CAVDRD	1.016	1.013	1.015	1.013	1.013	1.016	1.013	1.015	1.013	1.013
COMBRN	306	1050001662241	COMBRN	440	1050001662250	COMBRN	1.016	1.013	1.015	1.013	1.013	1.016	1.013	1.015	1.013	1.013
GOOSFM	309	1050001727953	GOOSFM	442	1050001727962	GOOSFM	1.016	1.013	1.015	1.013	1.013	1.016	1.013	1.015	1.013	1.013
LITSTA	427	1050001858070	LITSTA	648	1050001858080	LITSTA	1.004	1.003	1.003	1.002	1.003	1.004	1.003	1.003	1.002	1.003
MOLLAV	428	1050001620710	MOLLAV	774	1050001620720	MOLLAV	1.016	1.013	1.015	1.013	1.013	1.016	1.013	1.015	1.013	1.013
RAINDC	483	1050001877738 1050001878244	RAINDC	772	1050001877747 1050001878253	RAINDC	1.004	1.003	1.003	1.002	1.003	1.004	1.003	1.003	1.002	1.003
ICGLTD	866	1030075706342	ICGLTD	649	1050001431630	ICGLTD	1.004	1.003	1.004	1.003	1.004	1.016	1.013	1.015	1.013	1.013
STA33E	802	1050001977780				STA33E	1.009	1.011	1.014	1.009	1.009					

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.