



# **Statement of Charges for Use of System for The Electricity Network Company's Distribution Network**

This Statement is in a form  
to be approved by the Gas  
and Electricity Markets

**FINAL STATEMENT**

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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 replicate those published by the DNOs where the latter have been calculated using the Common Distribution Charging Methodology (CDCM) for Low Voltage and High Voltage (LV and HV) Designated Properties. Charges for any Designated EHV Properties connected to the ENC network will be calculated using the ENC EHV Charging Methodology. At the date of publication ENC has no Designated EHV properties.
- 1.4 Separate charges are calculated depending on the characteristics of the connection and whether the use of the Distribution System is for demand or generation purposes. Where a generation connection is seen to support the Distribution System the charges will be negative and the Supplier will receive credits for exported energy.
- 1.5 The application of charges to premises can usually be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables. Further information on how to identify and calculate the charge that will apply for your premise 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

<http://www.gtc-uk.co.uk/about-us/our-regulated-businesses>.

### 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.

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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.

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 <http://www.gtc-uk.co.uk/about-us/our-regulated-businesses>.

### Contact details

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

Regulation  
GTC Infrastructure Ltd  
Synergy House  
Woolpit Business Park  
Woolpit  
Bury St Edmunds  
IP30 9UP  
[regulatory@gtc-uk.co.uk](mailto:regulatory@gtc-uk.co.uk)  
01359 243251

1.12 All enquiries regarding tariffs should be addressed to:

Finance Revenue  
GTC Infrastructure Ltd  
Synergy House  
Woolpit Business Park  
Woolpit  
Bury St Edmunds  
IP30 9UP  
[Finance.Revenue@gtc-uk.co.uk](mailto:Finance.Revenue@gtc-uk.co.uk)

1.13 All enquiries regarding connection agreements and changes to maximum capacities should be addressed to:

MPAN Requests  
GTC Infrastructure Ltd  
Synergy House  
Woolpit Business Park  
Woolpit  
Bury St Edmunds  
IP30 9UP  
[MPAN.Requests@gtc-uk.co.uk](mailto:MPAN.Requests@gtc-uk.co.uk)

1.14 For all other queries please initially contact our general enquiries telephone number: 01359 240363 lines are open 08:00 - 17:00 Monday to Friday.

## **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:

- The 'Supercustomer' approach for Customers for whom we receive aggregated consumption through settlement; and
- 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:

- 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);
- 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);
- Domestic Customers for whom HH metering data is used in Settlement (i.e. Customers with MPANs which are registered to Measurement Class F); and
- Non-domestic 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:

- 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
- Customers which are unmetered and settled as pseudo HH metered (i.e. Customers with MPANs which are registered to Measurement Class D)

### **Supercustomer billing and payment**

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

2.6 Invoices are calculated on a periodic basis and sent to each User for whom we transport electricity through our Distribution System. Invoices are reconciled over a period of approximately 14 months to reflect later and more accurate consumption figures.

2.7 The charges are applied on the basis of the LLFC assigned to the MPAN, and the units (or kWhs) consumed within the time periods specified in this statement. These time periods are not the same as those indicated by the Time Pattern Regime (TPR) assigned to the Standard Settlement Configuration (SSC). All LLFCs are assigned at our sole discretion, based on the tariff application rules set out in the appropriate charging

methodology or elsewhere in this statement. Please refer to the section, [‘Incorrectly Allocated Charges’](#) if you believe the allocated LLFC or tariff is incorrect.

### **Supercustomer charges**

2.12 Supercustomer charges include the following components:

- a fixed charge - pence/MPAN/day; there will be only one fixed charge applied to each MPAN; and
- unit charges, pence/kilowatt-hour (kWh); three unit charges will apply depending on the time of day and the type of tariff for which the MPAN is registered.
- 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.

2.13 Identification of the appropriate charge can be made by cross-reference to the LLFC.

2.14 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).

2.15 Where an MPAN has an invalid Settlement combination, the ‘Domestic Aggregated with Residual’ fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default ‘Domestic Aggregated with Residual’ fixed and unit charges will be applied for each invalid SSC/TPR combination.

2.16 The ‘Domestic Aggregated (related MPAN)’ and ‘Non-Domestic Aggregated (related MPAN)’ charges are supplementary to their respective primary MPAN charge.

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

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

2.18 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.

2.19 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. Where MPANs have not been associated, for example when multiple points of connection fed from different sources are used for a single site, the relevant number of fixed charges will be applied.

2.20 All LLFCs/GSP groups 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/GSP group or tariff is incorrect. Where an incorrectly applied LLFC or GSP group



is identified, we may at our sole discretion apply the correct LLFC/GSP group and/or charges.

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

- 2.21 Site-specific billed charges for LV and HV Designated Properties may include the following components:
- a fixed charge pence/MPAN/day or pence/MSID/day;
  - a capacity charge, pence/kilovolt-ampere (kVA)/day, for Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);
  - an excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
  - three unit charges, pence/kWh, depending on the time of day and the type of tariff for which the MPAN is registered; and
  - a reactive power charge, pence/kilovolt-ampere reactive hour (kVArh), for each unit in excess of the reactive charge threshold.
- 2.22 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.
- 2.23 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.
- 2.24 LV and HV Designated Properties will be charged in accordance with the CDCM and allocated the relevant charge structure set out in Annex 1.
- 2.25 Designated EHV Properties will be charged in accordance with the Electricity Network Company's EHV Charging Methodology 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.

### **Components of Charges**

#### ***Residual Charging Bands***

- 2.27 Fixed Charges, representing Residual charges to be recovered by DNOs, are applied to Final Demand Sites on a banded basis, with all sites in a given charge band receiving the same residual charge. Domestic customers have a single charging band.
- 2.28 There are four non-domestic charging bands for each of the following groups:
- Designated Properties connected at LV, billing with no MIC;
  - Designated Properties connected at LV, billing with MIC;

- Designated Properties connected at HV; and
  - Designated EHV Properties.
- 2.29 The residual charging band boundaries are calculated nationally based upon data from all LDNOs. The method and timing for calculating the residual charging band boundaries and the method and timing for allocating customers into the residual charging bands are set out in Schedule 32 of DCUSA.
- 2.30 All Non-Final Demand Sites must submit a valid certificate, as described in Section 10, and upon receipt of a valid certificate will be allocated to the relevant No Residual tariff.

#### **Time periods**

- 2.31 The time periods for the application of unit charges to metered LV and HV Designated Properties are detailed in Annex 1. If the incumbent DNO has issued a notice to change time Bands, we will replicate such changes in our time bands. The details are set out in Annex 1.
- 2.32 The time periods for the application of unit charges to Unmetered Supply Exit Points are detailed in Annex 1. If the incumbent DNO has issued a notice to change time bands, we will replicate such changes in our time bands. The details are set out in Annex 1.
- 2.33 The time periods for the application of unit charges to Designated EHV Properties are detailed in Annex 2. If the incumbent DNO has issued a notice to change time Bands, we will replicate such changes in our time bands. The details are set out in Annex 2.

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

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

#### **Chargeable capacity**

- 2.35 The chargeable capacity is, for each billing period, the MIC/MEC, as detailed below.
- 2.36 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.
- 2.37 Reductions to the MIC/MEC may only be permitted once in a 12 month period. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the customer's maximum 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.
- 2.38 In the absence of an agreement, the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by the distributor for the relevant premises' connection. A customer can seek to agree or vary the MIC and/or MEC by contacting us using the contact details in section 1.

**Exceeded capacity**

2.39 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)

2.40 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.

2.41 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)

2.42 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.

2.43 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**

2.44 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.

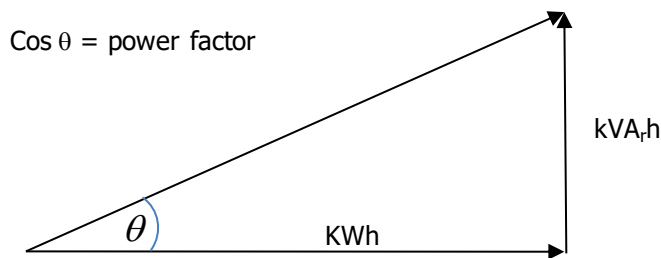
**Minimum capacity levels**

2.45 There is no minimum capacity threshold.

**Application of charges for excess reactive power**

2.46 When an individual HH metered MPAN’s reactive power (measured in kVArh) at LV and HV Designated Properties exceeds 33% of total active power (measured in kWh), 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.

2.47 Power Factor is calculated as follows:



2.48 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)

2.49 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.

2.50 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.

**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)

- 2.52 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 purposed the HH consumption values are summated prior to the calculation above.
- 2.53 The square root calculation will be to two decimal places.
- 2.54 This calculation is completed for every half hour and the values summated over the billing period.

**Incorrectly allocated charges**

- 2.55 It is our responsibility to apply the correct charges to each MPAN/MSID. The allocation of charges is based on the voltage of connection, import/export details, including multiple MPANs, metering information and, for some tariffs, the metering location.
- 2.56 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.
- 2.57 We are also responsible for allocating non-domestic customers into their residual charging bands. Allocation into residual charging bands is determined by consumption for customers billed under the Supercustomer approach and by the MIC for customers billed under the site-specific approach.
- 2.58 The Supplier determines and provides us with the metering information and data to enable us to allocate charges. This metering information and data is likely to change over time if, for example, a Supplier changes an MPAN from non-domestic to domestic following a change of use at the premises. When we are notified this has happened, we will change the allocation of charges accordingly.
- 2.59 If it is 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.
- 2.60 Where it has been identified that a charge may have been incorrectly allocated due to the voltage of connection, import/export details, metering location or allocation to the Residual Charging Band, 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.
- 2.61 Where a residual charging band allocation cannot be resolved, the dispute process provided within DCUSA Schedule 32 should be followed.

- 2.62 An administration charge (covering our reasonable costs) may be made if a technical assessment or site visit is required, but we will not apply any charge where we agree to the change request.
- 2.63 Where we agree that the current LLFC/charge should be changed, then we will allocate the appropriate set of charges for the connection. Any adjustment will be applied from the date of the request, back to the date of the incorrect allocation or; up to the maximum period specified by the Limitation Act (1980) in England and Wales, which covers a six year period from the date of the request, and the Prescription and Limitation (Scotland) Act 1973, which covers a five year period from the date of request; whichever is the shorter. Where a customer requests that their connection should be charged in accordance with an LV Substation tariff then any adjustment will be applied from the next calendar month following our decision and agreement.<sup>3</sup>
- 2.64 Any credit or additional charge will be issued to the relevant Supplier(s) who were effective during the period of the change.
- 2.65 Should we reject the request (as per paragraph 2.60) 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**

- 2.66 Not Used
- 2.67 Not Used

**Provision of billing data**

- 2.68 Where HH metering data is required for UoS charging and this is not provided in accordance with the BSC or the Distribution Connection and Use of System Agreement (DCUSA), such metering data shall be provided to us by the User of the system in respect of each calendar month within five working days of the end of that calendar month.
- 2.69 The metering data shall identify the amount of energy conveyed across the Metering System in each half hour of each day and shall separately identify active and reactive import and export. Metering data provided to us shall be consistent with that received through the metering equipment installed.
- 2.70 Metering data shall be provided in an electronic format specified by us from time to time and, in the absence of such specification, metering data shall be provided in a comma-separated text file in the format of Master Registration Agreement (MRA) data flow D0036<sup>4</sup> (as agreed with us). The data shall be emailed to [Finance.Revenue@gtc-uk.co.uk](mailto:Finance.Revenue@gtc-uk.co.uk).
- 2.71 We require details of reactive power imported or exported to be provided for all Measurement Class C and E sites. It is also required for CVA sites and Exempt Distribution Network boundaries with difference metering. We reserve the right to levy

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<sup>3</sup> In accordance with Note 5 of paragraph 141 of DCUSA Schedule 16.

<sup>4</sup> MRA Data Transfer Catalogue available from <https://dtc.mrasco.com/>

a charge on Users who fail to provide such reactive data. In order to estimate missing reactive data, a power factor of 0.95 lag will be applied to the active consumption in any half hour.

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

2.72 Not Applicable

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

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

2.74 The charge structure for LV and HV Designated Properties embedded in networks operated by LDNOs will mirror the structure of the 'All-the-way' Charge and is dependent upon the voltage of connection of each embedded network to the host DNO's network. The relevant charge structures are set out in Annex 4.

2.75 Where a NHH MPAN has an invalid Settlement combination, the 'LDNO HV: Domestic Aggregated with Residual' fixed and unit charges will be applied as default until the invalid combination is corrected. Where there are multiple SSC/TPR combinations, the default 'LDNO HV: Domestic Aggregated with Residual' fixed and unit charges will be applied for each invalid SSC/TPR combination.

2.76 The charge structure for Designated EHV Properties embedded in networks operated by LDNOs will be calculated individually using the Electricity Network Company's EHV charging methodology. The relevant charge structures are set out in Annex 2.

2.77 For Nested Networks the relevant charging principles set out in DCUSA Schedule 21<sup>5</sup> will apply.

### **Licence exempt distribution networks**

2.78 The Electricity and Gas (Internal Market) Regulations 2011<sup>6</sup> introduced new obligations on owners of licence exempt distribution networks (sometimes called private networks) including a duty to facilitate access to electricity and gas suppliers for Customers within those networks.

2.79 When Customers (both domestic and commercial) are located within a licence exempt distribution network and require the ability to choose their own Supplier, this is called 'third party access'. These embedded Customers will require an MPAN so that they can have their electricity supplied by a Supplier of their choice.

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

### **Full settlement metering**

2.81 This is where a licence exempt distribution network is set up so that each embedded installation has an MPAN and Metering System and therefore all Customers purchase electricity from their chosen Supplier. In this case there are no Settlement Metering

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<sup>5</sup> The Distribution Connection and use of System Agreement (DCUSA) available from <http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx>

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

Systems at the boundary between the licensed Distribution System and the exempt distribution network.

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

### **Difference metering**

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

### **Gross settlement**

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

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

- be provided in a text file in the format of the D0036 MRA data flow;
- the text file shall be emailed to [Finance.Revenue@qtc-uk.co.uk](mailto:Finance.Revenue@qtc-uk.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 and followed by a timestamp in the format YYYYMMDDHHMMSS and followed by ".txt".

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

### **Net Settlement**

2.87 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.

2.88 The charges applicable for an 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 the use of our Distribution System are published in the annexes to this document.
- 3.2 These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from <http://www.gtc-uk.co.uk/about-us/our-regulated-businesses>.
- 3.3 Annex 1 contains charges applied to LV and HV Designated Properties.
- 3.4 Annex 2 contains the charges applied to our Designated EHV Properties and charges applied to LDNOs for Designated EHV Properties connected within their embedded Distribution System.
- 3.5 Annex 3 contains details of any preserved and additional charges that are valid at this time. Preserved charges are mapped to an appropriate charge and are closed to new Customers.
- 3.6 Annex 4 contains the charges applied to LDNOs in respect of LV and HV Designated Properties connected in their embedded Distribution System.

## **4. SCHEDULE OF LINE LOSS FACTORS**

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

- 4.1 Electricity entering or exiting our Distribution System is adjusted to take account of energy that is lost<sup>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 for the energy lost on the Distribution System.
- 4.2 We are responsible for calculating the Line Loss Factors<sup>8</sup> (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 BSC Procedure 128. BSCP128 sets out the procedure and principles with which our LLF methodology must comply. It also defines the procedure and timetable by which LLFs are reviewed and submitted.
- 4.5 LLFs are calculated for a set number of time periods during a year using either a generic or a site-specific method. The generic method is used for sites connected at LV or HV and the site-specific method is used for sites connected at EHV or where a request for site-specific LLFs has been agreed. Generic LLFs will be applied as a default to all new EHV sites until sufficient data is available for a site-specific calculation.

Where the usage profile for a given site contains insufficiently large consumption or generation volumes to enable calculation of realistic Site-Specific LLFs then a default calculation, or default replacement process shall be undertaken. The definition of EHV used for LLF purposes differs from the definitions used for defining Designated EHV Properties in the Electricity Network Company's EHV Methodology. The definition used for LLFC purposes can be found in our LLF methodology which can be found on the Elexon website<sup>9</sup>

- 4.6 ENC currently replicate the host DNO's calculated losses.
- 4.7 The Elexon website contains more information on LLFs<sup>10</sup>. This page also has links to BSCP 128 and to our LLF methodology.

### **Publication of Line loss factors**

- 4.8 The LLFs used in Settlement are published on the Elexon Portal website, [www.elexonportal.co.uk](http://www.elexonportal.co.uk). The website contains the LLFs in standard industry data

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<sup>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> Also referred to as Loss Adjustment Factors.

<sup>9</sup> BSCP 128: Production, submission, audit and approval of Line Loss Factors

<sup>10</sup> <http://www.elexon.co.uk/reference/technical-operations/losses/>

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 January in the year prior to the LLFs becoming effective. Only after the completion of the audit at the end of January and BSC approval are the final LLFs published.
- 4.10 At the time that this charging statement is first published, Annex 5 will be intentionally left blank, as this statement is published a complete year before the LLFs have been calculated and audited. Once the final BSCP128 Audit Report has been received, we will issue an updated version of Annex 5 containing the audited LLF values.
- 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**

### **EHV nodal costs**

- 5.1 Not Used
- 5.2 Not Used

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

- 5.3 Charges for any new Designated EHV Properties calculated after publication of the current statement will be published in an addendum to that statement as and when necessary. 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 EHV 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 Electricity Network Company's EHV charging methodology.
- 5.8 Several options exist in which we may agree for some or the entire MIC to be interruptible. Under the Electricity Network Company's EHV charging methodology 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 email [MPAN.Requests@gtc-uk.co.uk](mailto:MPAN.Requests@gtc-uk.co.uk)

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 us at the address in paragraph 5.9.

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 us at the address in paragraph 5.9.

5.12 As of 1st April 2021 ENC does not have any EHV sites.

## **6. ELECTRICITY DISTRIBUTION REBATES**

6.1 We have neither given nor announced any DUoS rebates to Users in the 12 months preceding the date of publication of this version of the statement.

## **7. ACCOUNTING AND ADMINISTRATION SERVICES**

7.1 We reserve the right to impose payment default remedies. The remedies are as set out in DCUSA where applicable or else as detailed in the following paragraph.

7.2 If any invoices that are not subject to a valid dispute remain unpaid on the due date, late payment interest (calculated at base rate plus 8%) and administration charges may be imposed.

7.3 Our administration charges are detailed in the following table. These charges are set at a level which is in line with the Late Payment of Commercial Debts Act which can be viewed on:

<http://www.legislation.gov.uk/ukxi/2002/1674/regulation/2/made>

<b>Size of Unpaid Debt</b>	<b>Late Payment Fee</b>
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 Currently ENC offers no services under this category.

## **9. SCHEDULE OF FIXED ADDERS TO RECOVER SUPPLIER OF LAST RESORT AND ELIGIBLE BAD DEBT PASS-THROUGH COSTS**

### **Supplier of Last Resort**

9.1 Our charges will recover the amounts payable to upstream network operators as a result of charges which they recover in line with their Standard Licence Condition 38B 'Treatment of payment claims for last-resort supply where Valid Claim is received on or after 1 April 2019'.

9.2 These charges may include, where relevant, amended charges which have previously been published as a result of Last Resort Supply Payment claims which have breached the Materiality Threshold in line with Distribution Services Provider's licence condition SLC38B.

### **Eligible Bad Debt**

9.3 Our charges will recover the amounts payable to upstream network operators as a result of charges which will recover the amount of Use of System bad debt the Authority has consented to be recovered.

### **Tables of Fixed Adders**

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

## **10. Non-Final Demand Sites**

### **Charges for Non-Final Demand Sites**

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

### **Process for submitting certification**

10.2 This certification should take the form as set out in Appendix 3 and be submitted to [Regulation@gtc-uk.co.uk](mailto:Regulation@gtc-uk.co.uk).

10.3 We may, at our discretion, request a signed paper certificate from the User, in place of electronic. If requested, paper certification should be posted to [Regulation@gtc-uk.co.uk](mailto:Regulation@gtc-uk.co.uk)

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

10.5 If we determine that the documentation provided does not sufficiently evidence the undertaking of reasonable endeavours, does not support the facts attested to in the

certification, or if no documentation is received, we may at our discretion reject the certification as invalid. If the certification is rejected as invalid, then the property will not qualify as a Non-Final Demand Site.

**Application of charges for Non-Final Demand Sites**

10.6 A property will only be deemed to qualify as a Non-Final Demand Site, and be allocated charges as such, from the date on which we receive valid certification.

10.7 If a property that has previously been certified as a Non-Final Demand Site no longer satisfies the criteria as per DCUSA, then the User must inform us immediately.

10.8 For a property that has been previously certified as a Non-Final Demand Site, we will continue to apply the relevant no residual import tariff without the requirement for further certification, except in any one of the following circumstances;

- Where we have reason to believe that the property no longer qualifies as a Non-Final Demand Site; or
- Significant time has passed since the certification was submitted; or
- Where there is a change to the connection characteristics i.e. capacity change.

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

10.9 When a property no longer meets the required criteria to qualify as a Non-Final Demand Site, we will change the allocation of charges accordingly from that point.

10.10 Please refer to the section 'Incorrectly allocated charges' if you believe the property has been incorrectly not allocated charges as a Non-Final Demand Site.

**APPENDIX 1 - GLOSSARY**

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

<b>Term</b>	<b>Definition</b>
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">www.elexon.co.uk</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 the 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 whom, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point; or A person from whom a User purchases, or proposes to purchase, electricity, at an entry point (who may from time to time be supplied with electricity as a Customer of that User (or another electricity supplier) through an exit point).
Designated Properties EHV	As defined in standard condition 13B of the electricity distribution licence.
Designated Properties	As defined in standard condition 13A of the electricity distribution licence.

<b>Term</b>	<b>Definition</b>
Distribution Connection and Use of System Agreement (DCUSA)	The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain. It is a requirement that all electricity distributors and suppliers become parties to DCUSA.



Distributor IDs	These are unique IDs that can be used, with reference to the MPAN, to identify your LDNO. The charges for other network operators can be found on their website.		
	ID	Distribution Service Area	Company
	10	East of England	UK Power Networks
	11	East Midlands	Western Power Distribution
	12	London	UK Power Networks
	13	Merseyside and North Wales	Scottish Power
	14	Midlands	Western Power Distribution
	15	Northern	Northern Powergrid
	16	North Western	Electricity North West
	17	Scottish Hydro Electric (and embedded networks in other areas)	Scottish Hydro Electric Power Distribution plc
	18	South Scotland	Scottish Power
	19	South East England	UK Power Networks
	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	Last Mile Electricity Limited
	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 Limited
	34	All	Murphy Power Distribution Limited
	35	All	Fulcrum Electricity Assets Limited

Term	Definition			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">36</td> <td style="width: 50%; text-align: center;">All</td> <td style="width: 40%; text-align: center;">Vattenfall Networks Limited</td> </tr> </table>	36	All	Vattenfall Networks Limited
36	All	Vattenfall Networks Limited		
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 the Electricity Distribution Licence.			

Term	Definition
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.
Final Demand Site	As defined in DCUSA Schedule 32.
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.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in market domain data - see <a href="https://www.exelonportal.co.uk/MDDVIEWER">https://www.exelonportal.co.uk/MDDVIEWER</a> .
kVA	Kilovolt amperes.
kVArh	Kilovolt ampere reactive hour.
kW	Kilowatt.
kWh	Kilowatt hour (equivalent to one "unit" of electricity).
Licensed Distribution Network Operator (LDNO)	The holder of a licence in respect of electricity distribution activities in Great Britain.
Line Loss Factor (LLF)	The factor that is used in Settlement to adjust the Metering System volumes to take account of losses on the Distribution System.
Line Loss Factor Class (LLFC)	An identifier assigned to an SVA metering system which is used to assign the LLF and Use of System Charges.
Load Factor	$= \frac{\text{annual consumption (kWh)}}{\text{maximum demand (kW)} \times \text{hours in year}}$

Term	Definition
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.
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)	MTCs are three digit codes allowing suppliers to identify the metering installed in Customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter. Further information can be found in MDD.
Metering Point	The point at which electricity that is exported to or imported from the licensee's Distribution System is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'metering points'.

<b>Term</b>	<b>Definition</b>
Metering Point Administration Number (MPAN)	A number relating to a Metering Point under the MRA.
Metering System	Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.
Metering System Identifier (MSID)	MSID is a term used throughout the BSC and its subsidiary documents and has the same meaning as MPAN as used under the MRA.
Master Registration Agreement (MRA)	The MRA is an Agreement that sets out terms for the provision of Metering Point Administration Services (MPAS) Registrations, and procedures in relation to the Change of Supplier to any premise/metering point.
Nested Networks	This refers to a situation where there is more than one level of Embedded Network and therefore nested Distribution Systems between LDNOs (e.g. host DNO→primary nested DNO→ secondary nested DNO→customer).
Non-Final Demand Site	As defined in DCUSA Schedule 32.
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.

<b>Term</b>	<b>Definition</b>
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>11</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 LDNO e.g. a supplier, generator or other LDNO.

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<sup>11</sup> Balancing and Settlement Code Procedures are available from <http://www.elexon.co.uk/pages/bscps.aspx>

## **APPENDIX 2 - GUIDANCE NOTES<sup>12</sup>**

### **Background**

- 2.1 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.
- 2.2 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.
- 2.3 Where electricity is generated at a property your Supplier may receive a credit for energy that is exported on to the Distribution System. These credits are intended to reflect that the exported generation may reduce the need for traditional demand led reinforcement of the Distribution System.
- 2.4 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.

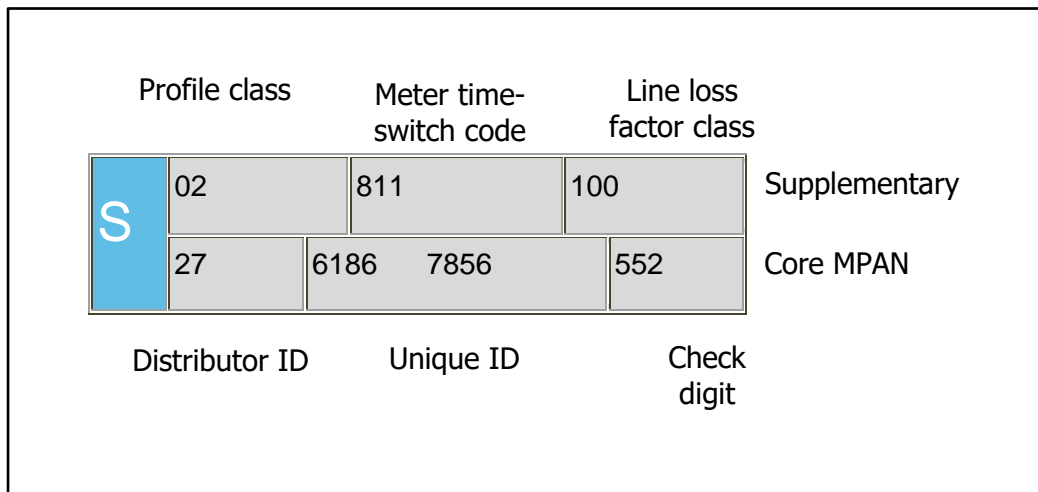
### **Meter point administration**

- 2.5 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).
- 2.6 The full MPAN is a 21 digit number, preceded by an 'S'. The MPAN applicable to a supply point is found on the electricity bill from your Supplier. This number enables you to establish who your electricity distributor is, details of the characteristics of the supply and importantly the distribution charges that are applicable to your premise.
- 2.7 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>12</sup> These guidance notes are provided for additional information and do not form part of the application of charges.

Full MPAN diagram



2.8 Generally, you will only need to know the Distributor ID and line loss factor class to identify the distribution charges for your premise. 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 ENC is 27. Other Distributor IDs can be referenced in the glossary.

2.9 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

2.10 Unmetered Supplies will be allocated to profile class 01, 08 and 00 depending on the type of load or the measurement method of the load.

2.11 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**

- 2.12 All distribution charges that relate to our Distributor ID 27 are provided in this statement.
- 2.13 You can identify your charges by referencing your line loss factor class, from Annex 1. If the MPAN is for a Designated EHV Property, then the charges will be found in Annex 2. In a few instances, the charges may be contained in Annex 3. When identifying charges in Annex 2, please note that some line loss factor classes have more than one charge. In this instance you will need to select the correct charge by cross referencing with the core MPAN provided in the table.
- 2.14 Once you have identified which charge structure applies to your MPAN then you will be able to calculate an estimate of your distribution charge using the calculator provided in the spreadsheet 'Schedule of charges and other tables' found in the sheet called 'Charge Calculator'. This spreadsheet can be downloaded from <http://www.gtc-uk.co.uk/about-us/our-regulated-businesses>.

## **Reducing your charges**

- 2.15 The most effective way to reduce your energy charges is to reduce your consumption by switching off or using more energy efficient appliances. However, there are also other potential opportunities to reduce your distribution charges; for example, it may be beneficial to shift demand or generation to a better time period. Demand use is likely to be cheaper outside peak periods and generation credits more beneficial, although the ability to directly benefit will be linked to the structure of your supply charges.
- 2.16 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**

- 2.17 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.
- 2.18 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.
- 2.19 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.

- 2.20 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.
- 2.21 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 EHV charges**

- 2.22 ENC does not have any EHV sites

### Appendix 3 – Non-Final Demand Site Certificate

A certificate set out in the form of the example shown below should be submitted to confirm that a site qualifies as a Non-Final Demand Site.

<b>Non-Final Demand Site Certificate of Compliance</b>	
<p>This is to certify that the Metering System listed below qualifies as compliant with the criteria of a Non-Final Demand Site, for the purposes of Use of System charges, and that:</p> <p>The property is a Single Site at which either or both Electricity Storage and/or Electricity Generation occurs (whether the facility(ies) at the site are operating or being commissioned, repaired or decommissioned), and that:</p> <ul style="list-style-type: none"> <li>a) has an export MPAN and an import MPAN with associated metering equipment which only measures export from Electricity Storage and/or Electricity Generation and import for or directly relating to Electricity Storage and/or Electricity Generation (and not export from another source and/or import for another activity); and                             <ul style="list-style-type: none"> <li>i) if registered in an MPAS Registration System, is subject to certification from a Supplier Party that the site meets the criteria in paragraph (a) above, which certificate has been provided to the DNO/IDNO Party; or</li> <li>ii) if registered in CMRS, is subject to certification from the Customer (or its CVA Registrant) that the site meets the criteria in paragraph (a) above, which certificate has been provided to the DNO/IDNO Party.</li> </ul> </li> </ul> <p>For the purposes of this declaration, the term Non-Final Demand Site has the meaning given to it in the DCUSA.</p>	
<p>Metering System Site Address:</p>  	
<p>Qualifying Import MPAN/MSID(s)</p>	<p>Qualifying Export MPAN/MSID(s)</p>
<p>I declare that I understand the qualification requirements and certify that the above Metering System meets the criteria of a Non-Final Demand Site.</p> <p>Authorised signatory:</p> <p>Name and designation:</p> <p>On behalf of company:</p> <p>Date:</p>	

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

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

ENC does not have any Customers connected at EHV at this time.

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

ENC does not have any Customers on preserved tariffs.

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

**Annex 5 – Schedule of Line Loss Factors**

**Annex 6 - New Designated EHV Properties**

ENC does not have any Customers connected at EHV at this time

**Annex 7 - Final Supplier of Last Resort and Bad Debt Pass-through Costs**

As ENC operates across all DNO areas, spreadsheets for the Annexes detailed above have been created for each DNO area, and are available to download from <http://www.gtc-uk.co.uk/about-us/our-regulated-businesses>. This document is also available by contacting us at the address in [paragraph 1.11](#) in the main body of this document.