WESTERN POWER DISTRIBUTION

Serving the Midlands, South West and Wales

Western Power Distribution

(South Wales) plc

Use of System Charging Statement

NOTICE OF CHARGES

Effective from 1st April 2020

Version 0.1

This statement has been updated for the new HV LDNO prices issued Feb 20.

Version Control

Version	Date	Description of version and any changes made
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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[1] for the use of our Distribution System and to provide the schedule of Line Loss Factors[2] 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)[3]:

- 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] Charges can be positive or negative.
[2] 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.
[3] The Distribution and Connection Use of System Agreement (DCUSA) available from http://www.dcusa.co.uk/SitePages/Documents/DCUSA-Document.aspx

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.westernpower.co.uk.

Validity period

1.8. This charging statement is valid for services provided from the effective date stated on the front of the statement and remains valid until updated by a revised version or superseded by a statement with a later effective date.

1.9. When using this charging statement, care should be taken to ensure that the relevant statement or statements covering the period that is of interest are used.

1.10. Notice of any revision to the statement will be provided to Users of our Distribution System. The latest statements can be downloaded from www.westernpower.co.uk .

Contact details

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

Income Team
Western Power Distribution
Avonbank
Feeder Rd
Bristol
BS2 0TB
email: wpdpricing@westernpower.co.uk

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

Connection Policy Engineer
Avonbank
Feeder Rd
Bristol
BS2 0TB
email: wpdconnectionspolicy@westernpower.co.uk

1.13. For all other queries please contact our general enquiries telephone number: 0800 096 3080; lines are open 08:00 – 18:00 Monday to Friday.

1.14. You can also find us on Facebook and Twitter.

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 is data is used in Settlement and which have whole current (WC) metering (i.e. Customers with MPANs which are registered to Measurement Class G).

2.4. We receive site specific consumption data through Settlement for:

(a) Non-domestic Customers for whom HH metering data is used in Settlement and which have current transformer (CT) metering (i.e. Customers with MPANs which are registered to measurement class C or E); and

(b) Customers which are unmetered and settled as pseudo HH metered (i.e. Customers with MPANs which are registered to measurement class D).

Supercustomer billing and payment

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

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

2.7. The charges are applied on the basis of the LLFC assigned to the MPAN, and the units 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

2.8. 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. We do not apply a default tariff for invalid combinations.

- For NHH Profile Class 1 & 2 multi-rate and other off-peak tariffs, night is defined as any seven hours determined and agreed by WPD between 21.00 and 09.00 hours clock time. Currently agreed regimes (Standard Settlement Configurations) are listed in Schedule 1 and DUoS charges for these are based on Total kWh by Settlement Class. If other regimes are installed in a premise, WPD will charge DUoS based on a default regime of 00.30-07.30 clock time and these SSCs are listed in Schedule 2.
- For NHH Profile Class 3 & 4 multi-rate tariffs and other off-peak tariffs, night is defined as any seven hours determined and agreed by WPD between 21.00 and 09.00 hours clock time. Currently agreed regimes (Standard Settlement Configurations) are listed in Schedule 3 and DUoS charges for these are based on Total kWh by Settlement Class. If other regimes are installed in a premise, WPD will charge DUoS based on a default regime of 00.30-07.30 clock time and these SSCs are listed in Schedule 4.
- For NHH Profile Class 5 to 8 multi-rate tariffs and other off-peak tariffs, night is defined as a seven hour period normally starting at 00.30 hours clock time. If other regimes are installed in a premise, unless otherwise agreed WPD will charge DUoS based on a default regime of 00.30-07.30 clock time using the half-hourly kWh by Settlement Class.

2.13. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spreadsheet that accompanies this statement[4].

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.

[5] MRA Data Transfer Catalogue available from https://dtc.mrasco.com/

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. 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

2.19. 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. Where an incorrectly applied LLFC is identified, we may at our sole discretion apply the correct LLFC and/or charges.

Site-specific billed charges

2.20. 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 section 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 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

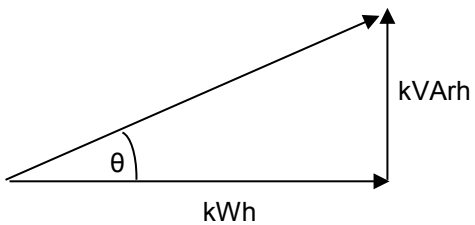
2.42. There is no minimum capacity threshold.

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:

Cos θ = 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 or any other relevant factor 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 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 UoS charges for generation from the next charging year following the expiry of their 25 years exemption, (starting 1st April), or
- the person responsible for the Designated EHV Property has provided notice to us that they wish to opt in to UoS charges for generation.

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

2.62. 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[5] (as agreed with us). The data shall be emailed to wpdduos@westernpower.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.

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. We do not apply a default tariff for invalid combinations

- For NHH Profile Class 1 & 2 multi-rate and other off-peak tariffs, night is defined as any seven hours determined and agreed by WPD between 21.00 and 09.00 hours clock time. Currently agreed regimes (Standard Settlement Configurations) are listed in Schedule 1 and DUoS charges for these are based on Total kWh by Settlement Class. If other regimes are installed in a premise, WPD will charge DUoS based on a default

[5] MRA Data Transfer Catalogue available from https://dtc.mrasco.com/

regime of 00.30-07.30 clock time and these SSCs are listed in Schedule 2.

- For NHH Profile Class 3 & 4 multi-rate tariffs and other off-peak tariffs, night is defined as any seven hours determined and agreed by WPD between 21.00 and 09.00 hours clock time. Currently agreed regimes (Standard Settlement Configurations) are listed in Schedule 3 and DUoS charges for these are based on Total kWh by Settlement Class. If other regimes are installed in a premise, WPD will charge DUoS based on a default regime of 00.30-07.30 clock time and these SSCs are listed in Schedule 4.
- For NHH Profile Class 5 to 8 multi-rate tariffs and other off-peak tariffs, night is defined as a seven hour period normally starting at 00.30 hours clock time. If other regimes are installed in a premise, unless otherwise agreed WPD will charge DUoS based on a default regime of 00.30-07.30 clock time using the half-hourly kWh by Settlement Class.

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[6] 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.

2.74. 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.

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

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.

2.79. Unless agreed otherwise, our UoS charges will be applied using Gross or Net Settlement as applicable to the site.

Gross settlement

2.80. Where one of our MPANs (Prefix 21) 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.

2.81. 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 wpdduos@westernpower.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; and
- the text filename shall be formed of the metering reference specified by us followed by a hyphen and followed by a timestamp in the format YYYYMMDDHHMMSS and followed by “.txt”.

2.82. 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

2.83. [Where one of our MPANs (Prefix 21) 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.

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.westernpower.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[7] 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[8] contains more information on LLFs.

Publication of line loss factors

4.8. The LLFs used in Settlement are published on the Elexon Portal[9]. 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.

[7] 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.

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

[9] The Elexon Portal can be accessed from www.elexonportal.co.uk

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 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 is provided in the accompanying spreadsheet which shows the underlying Long Run Incremental Cost (LRIC) nodal costs used to calculate the current EDCM charges. This spreadsheet is available to download from our website.

5.2. These are illustrative of the modelled costs at the time that this statement was published. A new connection will result in changes to current network utilisations, which will then form the basis of future prices. The charge determined in this statement will not necessarily be the charge in subsequent years because of the interaction between new and existing network connections and any other changes made to our Distribution System which may affect charges.

Charges for new Designated EHV Properties

5.3. Charges for any new Designated EHV Properties calculated after publication of the current statement will be published on our website in an addendum to that statement as and when necessary. The addendum will include charge information of the type found in Annex 2, and LLFs as found in Annex 5.

5.4. The form of the addendum is detailed in Annex 6 to this statement.

5.5. The 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. Our Demand Side Management approach is as follows:

- All EDCM Customers may apply to enter into a Demand Side Management Contract
- We may at our sole discretion approach specific Customers, aggregators or Suppliers to provide a range of Demand Side responses in specific locations based on network needs. These agreements may be for pre or post fault arrangements. It is at our sole discretion whether to offer post-fault Demand Side Management agreements.
- Payments accrued by a Customer who enters into a Demand Side Management agreement will be reflected in their Distribution Use of System Charges to their Supplier. Payments may be subject to reduction if the Customer fails to deliver demand reductions in accordance with the agreement
- The minimum demand reduction capacity a Customer can offer is 25% of its Maximum Import Capacity.

5.8. Requests for Demand Side Management agreements should be sent to the Income and Connections Manager at the address shown in paragraph 1.11.

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. None

Appendix 1 - Glossary

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

Term	Definition
All-the-way Charge	A charge that is applicable to an end user rather than an LDNO. An end user in this context is a Supplier/User who has a registered MPAN or MSID and is using the Distribution System to transport energy on behalf of a Customer.
Balancing and Settlement Code (BSC)	The BSC contains the governance arrangements for electricity balancing and settlement in Great Britain. An overview document is available from www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf.
Balancing and Settlement Code Procedure (BSCP)	A document of that title, as established or adopted and from time to time modified by the Panel in accordance with The Code, setting out procedures to be complied with (by Parties, Party Agents, BSC Agents, BSCCo, the Panel and others) in, and other matters relating to, the implementation of The Code;
Common Distribution Charging Methodology (CDCM)	The CDCM used for calculating charges to Designated Properties as required by standard licence condition 13A of the Electricity Distribution Licence.
Connection Agreement	An agreement between an LDNO and a Customer which provides that that Customer has the right for its connected installation to be and remain directly or indirectly connected to that LDNO's Distribution System
Central Volume Allocation (CVA)	As defined in the BSC.
Customer	A person to whom a User proposes to supply, or for the time being supplies, electricity through an exit point, or from who, a User or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point; Or A person from whom a User purchases, or proposes to purchase, electricity, at an entry point (who may from time to time be supplied with electricity as a Customer of that User (or another electricity supplier) through an exit point).
Designated EHV Properties	As defined in standard condition 13B of the Electricity Distribution Licence.
Designated Properties	As defined in standard condition 13A of the Electricity Distribution Licence.
Distribution Connection and Use of System Agreement (DCUSA)	The DCUSA is a multi-party contract between the licensed electricity distributors, suppliers, generators and Offshore Transmission Owners of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.

<table>
<tr><th>Term</th><th>Definition</th></tr>
<tr><td>Distributor IDs</td><td>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.
<table>
<tr><th>ID</th><th>Distribution Service Area</th><th>Company</th></tr>
<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>Peel 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>
</table></td></tr>
<tr><td>Distribution Network Operator (DNO)</td><td>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.</td></tr>
</table>

Term	Definition
Distribution Services Area	The area specified by the Gas and Electricity Markets Authority within which each DNO must provide specified distribution services.
Distribution System	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: • Grid Supply Points or generation sets or other entry points to the points of delivery to: • 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) that are operated by that authorised distributor and any electrical plant, electricity meters, and metering equipment owned or operated by it in connection with the distribution of electricity, but does not include any part of the GB transmission system.
EHV Distribution Charging Methodology (EDCM)	The EDCM used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the Electricity Distribution Licence.
Electricity Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Electricity Act 1989.
Electricity Distributor	Any person who is authorised by an Electricity Distribution Licence to distribute electricity.
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another Distribution System.
Engineering Recommendation P2/6	A document of the Energy Networks Association, which defines planning standards for security of supply and is referred to in Standard Licence Condition 24 of our Electricity Distribution Licence.
Entry Point	A boundary point at which electricity is exported onto a Distribution System from a connected installation or from another Distribution System, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).
Exit Point	A point of connection at which a supply of electricity may flow from the Distribution System to the Customer's installation or User's installation or the Distribution System of another person.
Extra High Voltage (EHV)	Nominal voltages of 22kV and above.
Gas and Electricity Markets Authority (GEMA)	As established by the Utilities Act 2000.
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.

Term	Definition
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 https://www.elexonportal.co.uk/MDDVIEWER.
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	$= \frac{annual\ consumption\ (kWh)}{maximum\ demand\ (kW) \times hours\ in\ year}$
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	A classification of Metering Systems used in the BSC which indicates how consumption is measured, i.e.: • Measurement Class A – non-half hourly metering equipment; • Measurement Class B – non-half hourly unmetered supplies; • Measurement Class C – half hourly metering equipment at or above 100kW premises; • Measurement Class D – half hourly unmetered supplies; • Measurement Class E – half hourly metering equipment below 100kW premises with CT; • Measurement Class F – half hourly metering equipment at below 100kW premises with CT or whole current, and at domestic premises; and • Measurement Class G – half hourly metering equipment at below 100kW premises with whole current and not at domestic premises.
Meter Timeswitch Code (MTC)	MTCs are three digit codes allowing suppliers to identify the metering installed in Customers' premises. They indicate whether the meter is single or multi-rate, pre-payment or credit, or whether it is 'related' to another meter. Further information can be found in MDD.
Metering Point	The point at which electricity that is exported to or imported from the licensee's Distribution System is measured, is deemed to be measured, or is intended to be measured and which is registered pursuant to the provisions of the MRA. For the purposes of this statement, GSPs are not 'Metering Points'.
Metering Point Administration Number (MPAN)	A number relating to a Metering Point under the MRA.
Metering System	Particular commissioned metering equipment installed for the purposes of measuring the quantities of exports and/or imports at the exit point or entry point.
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 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.
Nested Networks	This refers to a situation where there is more than one level of Embedded Network and therefore nested Distribution Systems between LDNOs (e.g. host DNO→primary nested DNO→ secondary nested DNO→customer).
Non-Intermittent Generation	Defined in DCUSA Schedule 16 as a generation plant where the energy source of the prime mover can be made available on demand, in accordance with the definitions in Engineering Recommendation P2/6.

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[10].
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.

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

Appendix 2 - Guidance notes[11]

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

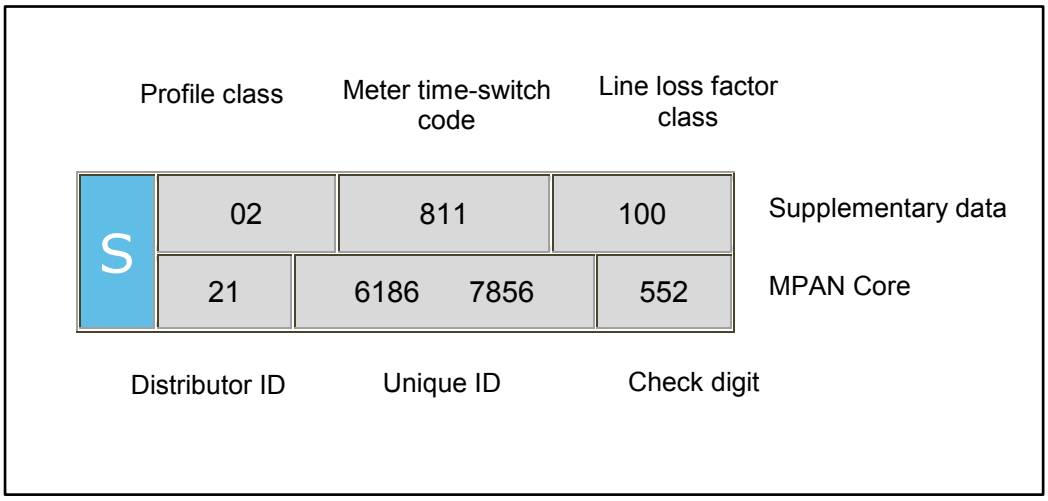
1.5. We are responsible for managing the electricity supply points that are connected to our Distribution System. Typically, every supply point is identified by a Meter Point Administration Number (MPAN). A few supply points may have more than one MPAN depending on the metering configuration (e.g. a 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.

[11] These guidance notes are provided for additional information and do not form part of the application of charges.

1.7. The 21-digit number is normally presented in two sections as shown in the following diagram. The top section is supplementary data which gives information about the characteristics of supply, while the bottom 'core' is the unique identifier.

Full MPAN diagram



1.8. Generally, you will only need to know the Distributor ID and LLFC to identify the distribution charges for your premises. However, there are some premises where charges are specific to that site. In these instances, the charges are identified by the MPAN core. Our Distributor ID is 21. 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 21 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.westernpower.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 - Schedule of Charges for use of the Distribution System by LV and HV Designated Properties

Western Power Distribution (South Wales) plc - 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	17:00 to 19:30	07:30 to 17:00 19:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Weekends		12:00 to 13:00 16:00 to 21:00	00:00 to 12:00 13:00 to 16:00 21:00 to 24:00
Notes	All the above 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 Nov to Feb (excluding 22nd Dec to 4th Jan inclusive)	17:00 to 19:30	07:30 to 17:00 19:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Monday to Friday Mar to Oct (plus 22nd Dec to 4th Jan inclusive)		07:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Weekends		12:00 to 13:00 16:00 to 21:00	00:00 to 12:00 13:00 to 16:00 21:00 to 24:00
Notes	All the above 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/kVArh	Closed LLFCs
Domestic Unrestricted	100, 105, 800, 860	1	2.881			4.39				
Domestic Two Rate	101, 106, 801, 861,	2	3.048	1.499		4.39				
Domestic Off Peak (related MPAN)	194, 843	2	1.485							
Small Non Domestic Unrestricted	200, 810, 862	3	2.331			8.76				
Small Non Domestic Two Rate	201, 811, 863	4	2.721	1.502		8.76				
Small Non Domestic Off Peak (related MPAN)	294	4	1.486							
LV Medium Non-Domestic	300	5-8	2.560	1.449		39.41				
LV Sub Medium Non-Domestic	344	5-8	2.457	1.441		20.06				
LV Network Domestic	116	0	11.396	2.039	1.494	4.39				
LV Network Non-Domestic Non-CT	117	0	9.958	1.928	1.460	8.76				
LV HH Metered	300	0	8.079	1.774	1.427	13.21	3.18	6.81	0.280	
LV Sub HH Metered	344	0	6.206	1.617	1.400	10.31	3.58	6.70	0.201	
HV HH Metered	400	0	5.099	1.526	1.373	95.18	3.65	7.10	0.148	
NHH UMS category A	718	8	3.213							
NHH UMS category B	701	1	3.474							
NHH UMS category C	719	1	4.251							
NHH UMS category D	720	1	2.963							
LV UMS (Pseudo HH Metered)	700	0	25.041	3.098	2.374					
LV Generation NHH or Aggregate HH	697	8 & 0	-0.839							
LV Sub Generation NHH	717	8	-0.765							
LV Generation Intermittent	697	0	-0.839						0.302	
LV Generation Intermittent no RP charge	91	0	-0.839							
LV Generation Non-Intermittent	603	0	-7.029	-0.544	-0.166				0.302	
LV Generation Non-Intermittent no RP charge	92	0	-7.029	-0.544	-0.166					
LV Sub Generation Intermittent	602	0	-0.765						0.254	
LV Sub Generation Intermittent no RP charge	93	0	-0.765							
LV Sub Generation Non-Intermittent	604	0	-6.395	-0.491	-0.158				0.254	
LV Sub Generation Non-Intermittent no RP charge	94	0	-6.395	-0.491	-0.158					
HV Generation Intermittent	698	0	-0.521			59.57			0.212	
HV Generation Intermittent no RP charge	95	0	-0.521			59.57				
HV Generation Non-Intermittent	606	0	-4.319	-0.313	-0.130	59.57			0.212	
HV Generation Non-Intermittent no RP charge	96	0	-4.319	-0.313	-0.130	59.57				

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

Western Power Distribution (South Wales) plc - Effective from 1 April 2020 - Final EDCM charges

Time Periods for Designated EHV Properties	
Time periods	**Super Red Time Band**
Monday to Friday Nov to Feb (excluding 22nd Dec to 4th Jan inclusive)	17:00 - 19:30
Notes	All the above times are in UK Clock time

Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
419	419	2100041256896	425	425	2100041256901	Mynydd Y Bwllfa		30.90	1.97	1.97		1483.43	0.05	0.05
420	420	2100041327873	426	426	2100041327882	MARGAM BIOMASS 132kV (exWLOG1G)		142.66	1.91	1.91	-0.038	1569.21	0.05	0.05
421	421	2100041453132	427	427	2100041453141	MYNYDD Y GWAIR 132kV		9.43	2.05	2.05		1547.03	0.05	0.05
460	460	2100041270311	975	975	2100041270320	Penrhiwarwydd Farm	0.329	14.53	2.49	2.49		889.34	0.05	0.05
461	461	2100041270288				Cwm Bargoed	0.118	742.73	2.44	2.44				
462	462	2100041272860	976	976	2100041272870	Little Neath	0.445	6.10	4.16	4.16		1017.03	0.05	0.05
463	463	2100041136537	943	943	2100041136546	Hoplass	0.445	3.10	6.11	6.11		929.12	0.05	0.05
464	464	2100041278152	977	977	2100041278161	Gelliwern Isaf		3.23	3.00	3.00		645.04	0.05	0.05
465	465	2100041290958	978	978	2100041290967	Oak cottage	1.105	60.91	2.21	2.21		4659.91	0.05	0.05
466	466	2100041309926	979	979	2100041309935	Red Court	2.136	4.29	3.04	3.04		685.65	0.05	0.05
467	467	2100041319358	980	980	2100041319367	Carn Nicholas	0.150	4.25	2.79	2.79		680.41	0.05	0.05
468	468	2100041320646	981	981	2100041320655	Brynwhilach Farm		51.67	1.46	1.46		964.87	0.05	0.05
469	469	2100041320682	982	982	2100041320691	Pant Y Moch PV Boundary	0.045	7.23	3.90	3.90		1283.95	0.05	0.05
470	470	2100041321808	983	983	2100041321817	Jesus College		4.01	5.72	5.72		681.81	0.05	0.05
471	471	2100041322183	984	984	2100041322192	Sully Moors		42.34	1.47	1.47	-0.033	1129.09	0.05	0.05
472	472	2100041330919	985	985	2100041330928	Hafod Y Dafal #2	0.327	34.23	2.09	2.09		2136.03	0.05	0.05
476	476	2100041336716	989	989	2100041336725	Stormy Down PV		24.15	2.04	2.04		1147.28	0.05	0.05
477	477	2100041336734	721	721	2100041336743	OAK GROVE FM 33kV GEN		2.74	2.70	2.70		685.53	0.05	0.05
478	478	2100041329063	722	722	2100041329072	LLANCADLE 33kV GEN	0.003	33.17	1.92	1.92		646.77	0.05	0.05
479	479	2100041339178	723	723	2100041339187	Lower House farm	2.026	142.88	2.68	2.68		6286.90	0.05	0.05
480	480	2100041343582	724	724	2100041343607	DERWYN FM 33kV GEN		8.23	2.04	2.04		658.26	0.05	0.05
481	481	2100041343936	725	725	2100041343945	Rosedew Farm		35.97	2.00	2.00		944.59	0.05	0.05
482	482	2100041344647	726	726	2100041344656	Pen Rhiw Caradog PV	0.022	16.38	2.40	2.40		674.67	0.05	0.05
483	483	2100041345400	727	727	2100041345419	Mynydd Y Gwrhyd	0.069	20.95	1.54	1.54		984.61	0.05	0.05
484	484	2100041346894	728	728	2100041346900	TONYPANDY STOR 33kV GEN		6.11	2.24	2.24	-0.319	641.60	0.05	0.05
485	485	2100041346867	729	729	2100041346885	TRASTON ROAD 33kV GEN	0.065	6.93	2.03	2.03	-0.310	729.13	0.05	0.05
486	486	2100041347202	730	730	2100041347211	Maesgwyn Extension WF	0.066	23.97	1.53	1.53		299.57	0.05	0.05
487	487	2100041363418	731	731	2100041363427	MANOR FM 66kV GEN	1.914	10.42	2.49	2.49		801.98	0.05	0.05
489	489	2100041355189	733	733	2100041355198	Rhewl Farm		11.82	1.71	1.71		709.23	0.05	0.05
491	491	2100041383511	735	735	2100041383520	BARGOED 33V GEN		7.60	2.84	2.84		620.65	0.05	0.05
492	492	2100041383822	736	736	2100041383831	MYNYDD BROMBIL 33kV GEN	0.044	65.36	1.79	1.79		2201.59	0.05	0.05
493	493	2100041383840	737	737	2100041383850	RASSAU IE 33kV GEN	0.016	69.07	1.46	1.46	-0.016	1736.11	0.05	0.05
494	494	2100041394105	738	738	2100041394114	Llynfi Afan		36.79	1.61	1.61		3717.29	0.05	0.05
495	495	2100041394123	739	739	2100041394132	MYNYDD YR ABER 66kV GEN		119.06	1.44	1.44		5635.59	0.05	0.05
496	496	2100041401774	740	740	2100041401792	WAUN Y POUND #1 33kV GEN	0.016	17.94	1.47	1.47	-0.016	610.32	0.05	0.05
497	497	2100041403638	741	741	2100041403647	COCKETT VALLEY 33kV GEN	0.437	5.41	5.79	5.79		1105.17	0.05	0.05
498	498	2100041403656	742	742	2100041403665	NANTHENFOEL 33kV GEN	3.855	1.85	5.05	5.05		776.44	0.05	0.05
499	499	2100041403674	743	743	2100041403683	WAUN Y POUND #2 33kV GEN	0.016	17.94	1.48	1.48	-0.016	610.32	0.05	0.05
500	500	2100041407767	744	744	2100041407776	St Peters Church		180.99	1.09	1.09		8467.79	0.05	0.05

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

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)
504	504	2100040007060 2100040007079 2100040007088 2100040007097 2100040007102 2100040007111 2100040007120 2100040007130 2100040014545 2189999999714				Corus Trostre	1.151		6.58	6.58				
505	505	2100040135899 2100040135904 2189999999732				Corus Orb	0.066	3148.05	4.45	4.45				
507	507	2100040067486	664	664	2100040067477	ABB Cornelly		12.62	1.76	1.76		954.08	0.05	0.05
508	508	2100041079038	674	674	2100041079047	Bettws		13.56	1.98	1.98		1003.63	0.05	0.05
509	509	2100040126342	660	660	2100040126333	Blaen Bowi	3.097	9.77	2.85	2.85				
510	510	2199989614144				Mir Steel		931.87	1.08	1.08				
511	511	2199989271918 2199989271927 2199989271936 2199989610089				Boc Margam		2413.99	4.42	4.42				
512	512	2199989610024	778	778	2100041256140	Ford Bridgend	0.379	3246.92	7.85	7.85		101.47	0.05	0.05
513	513	2199989616995				Alcoa		1061.48	2.17	2.17				
514	514	2189999999928				Celsa Rod Mills		5745.45	3.25	3.25				
515	515	2199989638961 2199989638970				Murphy Oil	0.203	7617.39	9.39	9.39				
517	517	2189999998678				Chevron		20763.12	4.30	4.30				
518	518	2189999996884 2189999996893	619	619	2100040023638 2100040023647	Interbrew Magor USKM	0.003	66.19	8.74	8.74				
519	519	2199989611204				Mainline Pipelines	0.030	152.97	6.82	6.82				
520	520	2189999999937				Celsa 33 11	0.572	3501.04	4.13	4.13				
522	522	2199989628537				Lafarge - Blue Circle		961.59	4.99	4.99				
529	529	2189999997284				Inco	0.091	1689.72	4.49	4.49				
531	531	2199989628430				Swansea University	0.396	3115.96	5.20	5.20				
532	532	2199989640232				DCWW Nantgaredig	1.849	1061.48	3.22	3.22				
533	533	2199989633165 2199989633174 2199989633183	633	633	2198765427530	Bridgend Paper Mill	0.346	362.31	4.68	4.68	-0.843	96.62	0.05	0.05
534	534	2189999997451 2189999997460 2189999997683				Momentive Chemicals	0.019	458.92	7.78	7.78				
535	535	2189999998924 2189999998933 2189999998942 2199989663578	617	617	2100040890412 2100040890430 2100040890440 2100040890459	Monsanto	0.070	431.73	5.35	5.35	-0.997	180.16	0.05	0.05
536	536	2199989353701 2199989353710	636	636	2189999997354	Dow Corning		230.59	11.93	11.93				
538	538	2198765295402	786	786	2100041213572	DCWW Rover Way	0.017	188.72	6.09	6.09	-0.190	117.23	0.05	0.05
539	539	2100040302060				Simms metals		1014.25	3.60	3.60				
541	541	2100040752410 2100040752420	678	678	2100040752396 2100040752401	Milford Energy		147.70	1.56	1.56		158.25	0.05	0.05
542	542	2100040636538 2100040653932				SHLNG	0.207	15847.80	9.35	9.35				
545	545	2100040769015 2100040769033 2100040769042				Felindre		4301.78	1.37	1.37				
546	546	2100040781360 2100040781379				Timet		1061.48	3.74	3.74				
547	547	2100040495610	663	663	2100040495600	Blaen Cregan	0.012	3.22	2.91	2.91				
548	548	2100040878007	668	668	2100040878016	Blaengwen	0.202	675.26	3.38	3.38		15531.01	0.05	0.05
549	549	2100041471220 2199989639264	651	651	2100041471239 2199989632384	Bryn Titli	2.080	21.61	4.73	4.73		792.51	0.05	0.05

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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)
571	571	2100040067538	665	665	2100040067529	Crymlin Burrows	0.150	126.94	3.50	3.50				
572	572	2199989635669	652	652	2189999997390	Dyffryn Brodyn	2.242	4.36	2.68	2.68				
574	574	2199989614809	653	653	2199989612769	Llyn Brianne	2.091	17.02	2.00	2.00				
575	575	2100041079171	676	676	2100041079180	Maerdy	0.075	24.42	1.78	1.78		1953.47	0.05	0.05
576	576	2100041416441	773	773	2100041416450	HIRWAUN GE 33kV GEN	0.081	225.49	1.90	1.90	-0.084	771.74	0.05	0.05
577	577	2100040719992	661	661	2100040719983	BOC Biomass 33kV (exMBIO3G)		334.16	1.40	1.40		2639.83	0.05	0.05
579	579	2100040485950	670	670	2100040485940	Pwllfa Gwatkin	0.076	19.57	1.61	1.61				
580	580	2199989641937	650	650	2189999997345	Taff Ely		6.26	1.91	1.91		688.98	0.05	0.05
581	581	2100040609516	662	662	2100040609507	Trecatti		130.00	1.42	1.42		779.99	0.05	0.05
582	582	2100040694060	666	666	2100040694051	Withy Hedges	1.129	12.18	1.93	1.93	-1.522	700.43	0.05	0.05
583	583	2198765146436	659	659	2198765142992	Parc Cynog	2.200	3.20	2.40	2.40				
584	584	2100040841771	667	667	2100040841780	Parc Cynog (Pendine)	2.200	34.95	2.10	2.10		609.98	0.05	0.05
585	585	2100040960600	684	684	2100040960619	Maesgwyn		75.19	2.02	2.02		5413.84	0.05	0.05
586	586	2100040989413	679	679	2100040989431	Ferndale Wind Farm		33.60	1.65	1.65		1075.11	0.05	0.05
587	587	2100041090096	685	685	2100041090087	Pant y Wal WF		38.32	1.96	1.96		3579.13	0.05	0.05
588	588	2100041063650	686	686	2100041063669	Mynydd Portref		14.56	1.69	1.69		970.99	0.05	0.05
589	589	2100041383878	687	687	2100041383887	Newton Down		23.98	1.50	1.50		1147.45	0.05	0.05
590	590	2100041200253	649	649	2100041200262	Tiers Cross (Rose Cottage)		11.08	2.67	2.67		1131.08	0.05	0.05
593	593	2189999997503 2189999997512				Camford	2.431		10.50	10.50				
594	594	2189999997025 2189999997034 2189999997043				Hoover	0.632	458.92	9.65	9.65				
610	610	2100041407749	745	745	2100041407758	Berthllwyd Farm		4.75	2.17	2.17		808.54	0.05	0.05
612	612	2100041412093	747	747	2100041412109	Whitton Mawr		14.29	1.83	1.83		628.97	0.05	0.05
613	613	2100041412118	748	748	2100041412127	Barry Dock Biomass		116.08	2.14	2.14	-0.039	1326.80	0.05	0.05
614	614	2100041412172	749	749	2100041412181	North Tenement	3.495	29.34	2.04	2.04		1335.19	0.05	0.05
615	615	2100041416423	772	772	2100041416432	Bryn Cyrnau Isaf	2.063	16.87	3.25	3.25		1089.83	0.05	0.05
620	620	2199989611348				University Hospital of Wales	1.456	305.95	3.07	3.07				
622	622	2199989609970				QuinetiQ	3.384	152.97	11.18	11.18				
623	623	2100041070815 2100041071828				Western Coal	0.025	1740.00	6.43	6.43				
625	625	2100040983990	658	658	2199989641360	Tregaron	4.200	1.51	1.82	1.82	-4.200	151.46	0.05	0.05
627	627	2100041072798	646	646	2100041072803	Waunarlwydd STOR	0.432	3.43	1.43	1.43	-0.432	685.40	0.05	0.05
628	628	2100041078805	645	645	2100041078814	Briton Ferry STOR	0.044	4.72	1.30	1.30	-0.065	1026.82	0.05	0.05
629	629	2100041089700	644	644	2100041089685	Hirwaun STOR	0.081	4.58	1.43	1.43	-0.083	995.98	0.05	0.05
631	631	2100041080121	643	643	2100041080130	Ffos Las	0.986	12.48	2.94	2.94		624.15	0.05	0.05
632	632	2100041080140	642	642	2100041080177	Pont Andrew Tee	1.144	12.60	2.50	2.50		630.10	0.05	0.05
634	634	2100041495912	922	922	2100041495921	UNIT 26C STOR 33kV GEN	0.015	6.54	1.90	1.90	-0.015	2850.78	0.05	0.05
671	671	2100041495940	921	921	2100041495959	TECHBOARD STOR 33kV GEN	0.016	6.54	1.90	1.90	-0.016	2850.78	0.05	0.05
680	680	2100041526631	990	990	2100041526640	Bryn Blaen 66kV WF	2.080	9.68	4.83	4.83		942.00	0.05	0.05
681	681	2100041539170	991	991	2100041539180	YSTRADFFIN 33kV GEN	2.100	33.94	2.70	2.70	-3.231	610.98	0.05	0.05
683	683	2100041541773	993	993	2100041541782	Blaen Egel Fawr 33kV WF	0.069	18.20	1.19	1.19		937.90	0.05	0.05
750	750	2100041422668	779	779	2100041422677	BRECHFA WEST 132kV GEN	0.006	14.14	2.23	2.23		1697.90	0.05	0.05
760	760	2100041324775				Pen Y Cymoedd WF Aux.	0.039	1722.39	2.78	2.78				
761	761	2100041490037	789	789	2100041490046	AFON WAY 33kV GEN	0.044	9.81	1.90	1.90	-0.044	785.15	0.05	0.05
762	762	2100041418350	774	774	2100041418360	MANMOEL 33kV GEN	0.326	42.87	2.78	2.78		1486.15	0.05	0.05
763	763	2100041438659	775	775	2100041438668	Maesgwyn Extension PV	0.066	11.98	2.85	2.85		331.08	0.05	0.05
764	764	2100041444801	776	776	2100041444810	CRUMLIN 33kV GEN	0.323	15.97	1.72	1.72	-0.323	960.56	0.05	0.05
765	765	2100041445958	777	777	2100041445967	PEN BRYN OER 33kV GEN		37.62	1.70	1.70		1188.75	0.05	0.05
880	880	2189999997595	601	601	2189999998739	Tata Margam			3.22	3.22	-0.460		0.05	0.05
882	882	2100041103391	790	790	2100041103407	Tir John STOR	0.150	3.87	1.32	1.32	-0.215	919.87	0.05	0.05
883	883	2100041105593	940	940	2100041105609	Wear Point WF	0.930	10.65	1.54	1.54		1521.90	0.05	0.05
884	884	2100041113229	791	791	2100041113247	West Farm PV	0.565	7.36	1.98	1.98		650.91	0.05	0.05
885	885	2100041113326	792	792	2100041113335	Jordanston Farm PV	1.395	3.32	4.27	4.27		755.52	0.05	0.05
886	886	2100041115787	793	793	2100041115796	Rudbaxton	1.124	7.47	4.62	4.62		1359.84	0.05	0.05
888	888	2100041120350	942	942	2100041120360	Dowlais STOR		6.25	1.30	1.30		1404.81	0.05	0.05
890	890	2100041142372	944	944	2100041142381	Trident Park		986.67	1.28	1.28		6328.80	0.05	0.05
891	891	2100041150763	945	945	2100041150772	Baglan PV	0.044	6.82	2.50	2.50		1706.12	0.05	0.05
892	892	2100041150781	946	946	2100041150790	Whitland (Caermelyn)	1.365	6.25	2.02	2.02		624.79	0.05	0.05
893	893	2100041150833	947	947	2100041150842	Liddlestone Ridge	1.900	3.33	7.07	7.07		698.28	0.05	0.05
894	894	2100041172093	948	948	2100041172109	Garn farm		40.36	1.70	1.70		645.69	0.05	0.05

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

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

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)
895	895	2100041172075	949	949	2100041172084	Llandarcy STOR	0.153	18.18	1.69	1.69	-0.153	727.32	0.05	0.05
896	896	2100041195090	950	950	2100041195106	Treguff Farm	0.002	16.45	2.94	2.94		625.14	0.05	0.05
897	897	2100041197887	951	951	2100041197896	Loughor Farm		4.13	3.58	3.58		643.58	0.05	0.05
898	898	2100041197869	952	952	2100041197878	Sutton Farm		14.57	2.40	2.40		1165.48	0.05	0.05
899	899	2100041201318	953	953	2100041201327	Cefn Betingau		1.74	4.75	4.75		626.52	0.05	0.05
900	900	2100041201293	954	954	2100041201309	Clawdd Ddu	0.043	2.26	6.13	6.13		926.62	0.05	0.05
901	901	2100041212221	955	955	2100041212230	Pentre Farm	1.144	168.35	2.35	2.35		1683.51	0.05	0.05
902	902	2100041221059	956	956	2100041221068	Barry STOR	0.102	28.57	1.60	1.60	-0.102	1142.86	0.05	0.05
903	903	2100041230833	957	957	2100041230842	Fenton Farm	1.105	3.31	6.13	6.13		2384.08	0.05	0.05
904	904	2100041240344	958	958	2100041240353	Yerbeston Gate	3.172	13.23	2.48	2.48		1322.96	0.05	0.05
905	905	2100041251258	959	959	2100041251267	Pen y cae	0.043	6.03	3.28	3.28		799.49	0.05	0.05
906	906	2100041251276	960	960	2100041251285	Saron	0.043	11.74	2.92	2.92		1451.70	0.05	0.05
907	907	2100041254969	961	961	2100041254978	Hendre Fawr Farm	0.070	2.01	4.40	4.40		685.04	0.05	0.05
908	908	2100041257250	962	962	2100041257269	Hendai Farm		3.95	3.86	3.86		658.76	0.05	0.05
909	909	2100041258591	963	963	2100041258607	Cwm Cae Singrug	0.327	6.80	2.74	2.74		680.36	0.05	0.05
910	910	2100041252819	964	964	2100041252837	Brynteg Farm	1.181	6.04	3.95	3.95		647.78	0.05	0.05
911	911	2100041260304	965	965	2100041260313	Court Coleman	2.104	10.46	6.34	6.34		3138.21	0.05	0.05
912	912	2100041260331	966	966	2100041260340	Llwynddu	3.510	2.94	6.46	6.46		639.77	0.05	0.05
913	913	2100041260651	967	967	2100041260660	Cenin Energy Park (ex Stormy Down)		156.19	1.43	1.43		1015.24	0.05	0.05
914	914	2100041260633	968	968	2100041260642	Abergelli Farm		54.63	1.98	1.98		2537.26	0.05	0.05
915	915	2100041264080	969	969	2100041264099	Crug Mawr Farm	3.519	4.82	6.21	6.21		1157.99	0.05	0.05
916	916	2100041265516	970	970	2100041265525	Yerbeston Chapel Hill	0.440	38.34	2.12	2.12		3067.13	0.05	0.05
917	917	2100041265809	971	971	2100041265818	ABERAMAN 33kV GEN	0.022	135.38	1.46	1.46	-0.080	1588.40	0.05	0.05
918	918	2100041267912	972	972	2100041267930	Rhyd Y Pandy		5.25	3.22	3.22		1049.77	0.05	0.05
919	919	2100041268837	973	973	2100041268846	Haverford West PV	1.105	6.16	2.61	2.61		1231.54	0.05	0.05
920	920	2100041269812	974	974	2100041269821	Blaenlliedi Farm	1.144	16.03	2.35	2.35		801.31	0.05	0.05
2614	2614	2614				Aberystwyth - Manweb	0.212		13.88	13.88				
7051	7051	7051	7051	7051	7051	Centrica Barry			2.31	2.31				
7159	7159	7159	7159	7159	7159	British Energy (Solutia CVA)	0.065	8.17	1.87	1.87	-0.116	255.60	0.05	0.05
7163	7163	7163	7163	7163	7163	Aberaman Park	0.022	19.76	1.68	1.68	-0.035	617.88	0.05	0.05
7328	7328	7328	7329	7329	7329	Dowlais II STOR CVA		25.51	1.56	1.56		1401.67	0.05	0.05
7346	7346	7346	7347	7347	7347	GOWERTON EAST STOR 33kV GEN		26.00	1.47	1.47		1152.24	0.05	0.05
New Import 1	New Import 1	New Import 1	New Export 1	New Export 1	New Export 1	BLACKBERRY LANE 33kV	0.440	11.16	2.62	2.62		2455.70	0.05	0.05
New Import 2	New Import 2	New Import 2	New Export 2	New Export 2	New Export 2	Brechfa Forest West Ext 132kV WF	0.006	5.85	2.05	2.05		1111.32	0.05	0.05
New Import 3	New Import 3	New Import 3	New Export 3	New Export 3	New Export 3	Bryn Henllys 33kV PV	0.071	16.03	1.92	1.92		2453.48	0.05	0.05
New Import 4	New Import 4	New Import 4	New Export 4	New Export 4	New Export 4	ENVIROPARKS 33kV GEN	0.081	184.31	1.72	1.72	-0.083	1382.35	0.05	0.05
New Import 5	New Import 5	New Import 5	New Export 5	New Export 5	New Export 5	FOEL TRWSNANT 66kV		57.73	1.78	1.78		4041.40	0.05	0.05
New Import 6	New Import 6	New Import 6	New Export 6	New Export 6	New Export 6	Full Circle HSE 66kV STOR	0.579	10.94	2.16	2.16	-0.579	2303.91	0.05	0.05
New Import 7	New Import 7	New Import 7	New Export 7	New Export 7	New Export 7	LLANWERN FM 132kV GEN		1.67	2.79	2.79		983.18	0.05	0.05
New Import 8	New Import 8	New Import 8	New Export 8	New Export 8	New Export 8	Longlands Solar Park 33kV PV		10.65	1.83	1.83		1033.00	0.05	0.05
New Import 9	New Import 9	New Import 9	New Export 9	New Export 9	New Export 9	Lynfi 66kV Biomass		47.26	1.67	1.67		2363.15	0.05	0.05
New Import 10	New Import 10	New Import 10	New Export 10	New Export 10	New Export 10	MATHERN STOR 33kV GEN		42.28	2.16	2.16		4413.91	0.05	0.05
New Import 11	New Import 11	New Import 11	New Export 11	New Export 11	New Export 11	MELIN COURT 33kV GEN	0.086	19.40	1.82	1.82		1454.96	0.05	0.05
New Import 12	New Import 12	New Import 12	New Export 12	New Export 12	New Export 12	PENCOED STOR 132kV	0.004	3.29	2.54	2.54	-0.020	1385.65	0.05	0.05
New Import 13	New Import 13	New Import 13	New Export 13	New Export 13	New Export 13	PENDERI 132kV GEN		15.14	3.75	3.75		8810.82	0.05	0.05
New Import 14	New Import 14	New Import 14	New Export 14	New Export 14	New Export 14	Rhoscrowther 132kV WF		6.99	2.14	2.14		964.62	0.05	0.05
New Import 15	New Import 15	New Import 15	New Export 15	New Export 15	New Export 15	SOUTHBROOK STOR 33kV GEN		6.14	2.15	2.15		1227.12	0.05	0.05
New Import 16	New Import 16	New Import 16	New Export 16	New Export 16	New Export 16	TAFF ELY EXTENSION 33kV GEN		3.89	1.69	1.69		679.94	0.05	0.05
New Import 17	New Import 17	New Import 17	New Export 17	New Export 17	New Export 17	Wentlog 33kV Biomass		565.09	1.97	1.97	-0.782	2974.23	0.05	0.05

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

Western Power Distribution (South Wales) plc - Effective from 1 April 2020 - Final EDCM import charges

Import Unique Identifier	LLFC	Import 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)
419	419	2100041256896	Mynydd Y Bwllfa		30.90	1.97	1.97
420	420	2100041327873	MARGAM BIOMASS 132kV (exWLOG1G)		142.66	1.91	1.91
421	421	2100041453132	MYNYDD Y GWAIR 132kV		9.43	2.05	2.05
460	460	2100041270311	Penrhiwarwydd Farm	0.329	14.53	2.49	2.49
461	461	2100041270288	Cwm Bargoed	0.118	742.73	2.44	2.44
462	462	2100041272860	Little Neath	0.445	6.10	4.16	4.16
463	463	2100041136537	Hoplass	0.445	3.10	6.11	6.11
464	464	2100041278152	Gelliwern Isaf		3.23	3.00	3.00
465	465	2100041290958	Oak cottage	1.105	60.91	2.21	2.21
466	466	2100041309926	Red Court	2.136	4.29	3.04	3.04
467	467	2100041319358	Carn Nicholas	0.150	4.25	2.79	2.79
468	468	2100041320646	Brynwhilach Farm		51.67	1.46	1.46
469	469	2100041320682	Pant Y Moch PV Boundary	0.045	7.23	3.90	3.90
470	470	2100041321808	Jesus College		4.01	5.72	5.72
471	471	2100041322183	Sully Moors		42.34	1.47	1.47
472	472	2100041330919	Hafod Y Dafal #2	0.327	34.23	2.09	2.09
476	476	2100041336716	Stormy Down PV		24.15	2.04	2.04
477	477	2100041336734	OAK GROVE FM 33kV GEN		2.74	2.70	2.70
478	478	2100041329063	LLANCADLE 33kV GEN	0.003	33.17	1.92	1.92
479	479	2100041339178	Lower House farm	2.026	142.88	2.68	2.68
480	480	2100041343582	DERWYN FM 33kV GEN		8.23	2.04	2.04
481	481	2100041343936	Rosedew Farm		35.97	2.00	2.00
482	482	2100041344647	Pen Rhiw Caradog PV	0.022	16.38	2.40	2.40
483	483	2100041345400	Mynydd Y Gwrhyd	0.069	20.95	1.54	1.54
484	484	2100041346894	TONYPANDY STOR 33kV GEN		6.11	2.24	2.24
485	485	2100041346867	TRASTON ROAD 33kV GEN	0.065	6.93	2.03	2.03
486	486	2100041347202	Maesgwyn Extension WF	0.066	23.97	1.53	1.53
487	487	2100041363418	MANOR FM 66kV GEN	1.914	10.42	2.49	2.49
489	489	2100041355189	Rhewl Farm		11.82	1.71	1.71
491	491	2100041383511	BARGOED 33V GEN		7.60	2.84	2.84
492	492	2100041383822	MYNYDD BROMBIL 33kV GEN	0.044	65.36	1.79	1.79
493	493	2100041383840	RASSAU IE 33kV GEN	0.016	69.07	1.46	1.46
494	494	2100041394105	Llynfi Afan		36.79	1.61	1.61

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

Import Unique Identifier	LLFC	Import 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)
495	495	2100041394123	MYNYDD YR ABER 66kV GEN		119.06	1.44	1.44
496	496	2100041401774	WAUN Y POUND #1 33kV GEN	0.016	17.94	1.47	1.47
497	497	2100041403638	COCKETT VALLEY 33kV GEN	0.437	5.41	5.79	5.79
498	498	2100041403656	NANTHENFOEL 33kV GEN	3.855	1.85	5.05	5.05
499	499	2100041403674	WAUN Y POUND #2 33kV GEN	0.016	17.94	1.48	1.48
500	500	2100041407767	St Peters Church		180.99	1.09	1.09
504	504	2100040007060 2100040007079 2100040007088 2100040007097 2100040007102 2100040007111 2100040007120 2100040007130 2100040014545 2189999999714	Corus Trostre	1.151		6.58	6.58
505	505	2100040135899 2100040135904 2189999999732	Corus Orb	0.066	3,148.05	4.45	4.45
507	507	2100040067486	ABB Cornelly		12.62	1.76	1.76
508	508	2100041079038	Bettws		13.56	1.98	1.98
509	509	2100040126342	Blaen Bowi	3.097	9.77	2.85	2.85
510	510	2199989614144	Mir Steel		931.87	1.08	1.08
511	511	2199989271918 2199989271927 2199989271936 2199989610089	Boc Margam		2,413.99	4.42	4.42
512	512	2199989610024	Ford Bridgend	0.379	3,246.92	7.85	7.85
513	513	2199989616995	Alcoa		1,061.48	2.17	2.17
514	514	2189999999928	Celsa Rod Mills		5,745.45	3.25	3.25
515	515	2199989638961 2199989638970	Murphy Oil	0.203	7,617.39	9.39	9.39
517	517	2189999998678	Chevron		20,763.12	4.30	4.30
518	518	2189999996884 2189999996893	Interbrew Magor USKM	0.003	66.19	8.74	8.74
519	519	2199989611204	Mainline Pipelines	0.030	152.97	6.82	6.82

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Import Unique Identifier	LLFC	Import 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)
520	520	2189999999937	Celsa 33 11	0.572	3,501.04	4.13	4.13
522	522	2199989628537	Lafarge - Blue Circle		961.59	4.99	4.99
529	529	2189999997284	Inco	0.091	1,689.72	4.49	4.49
531	531	2199989628430	Swansea University	0.396	3,115.96	5.20	5.20
532	532	2199989640232	DCWW Nantgaredig	1.849	1,061.48	3.22	3.22
533	533	2199989633165 2199989633174 2199989633183	Bridgend Paper Mill	0.346	362.31	4.68	4.68
534	534	2189999997451 2189999997460 2189999997683	Momentive Chemicals	0.019	458.92	7.78	7.78
535	535	2189999998924 2189999998933 2189999998942 2199989663578	Monsanto	0.070	431.73	5.35	5.35
536	536	2199989353701 2199989353710	Dow Corning		230.59	11.93	11.93
538	538	2198765295402	DCWW Rover Way	0.017	188.72	6.09	6.09
539	539	2100040302060	Simms metals		1,014.25	3.60	3.60
541	541	2100040752410 2100040752420	Milford Energy		147.70	1.56	1.56
542	542	2100040636538 2100040653932	SHLNG	0.207	15,847.80	9.35	9.35
545	545	2100040769015 2100040769033 2100040769042	Felindre		4,301.78	1.37	1.37
546	546	2100040781360 2100040781379	Timet		1,061.48	3.74	3.74
547	547	2100040495610	Blaen Cregan	0.012	3.22	2.91	2.91
548	548	2100040878007	Blaengwen	0.202	675.26	3.38	3.38
549	549	2100041471220 2199989639264	Bryn Titli	2.080	21.61	4.73	4.73
571	571	2100040067538	Crymlin Burrows	0.150	126.94	3.50	3.50
572	572	2199989635669	Dyffryn Brodyn	2.242	4.36	2.68	2.68
574	574	2199989614809	Llyn Brianne	2.091	17.02	2.00	2.00
575	575	2100041079171	Maerdy	0.075	24.42	1.78	1.78

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

Import Unique Identifier	LLFC	Import 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)
576	576	2100041416441	HIRWAUN GE 33kV GEN	0.081	225.49	1.90	1.90
577	577	2100040719992	BOC Biomass 33kV (exMBIO3G)		334.16	1.40	1.40
579	579	2100040485950	Pwllfa Gwatkin	0.076	19.57	1.61	1.61
580	580	2199989641937	Taff Ely		6.26	1.91	1.91
581	581	2100040609516	Trecatti		130.00	1.42	1.42
582	582	2100040694060	Withy Hedges	1.129	12.18	1.93	1.93
583	583	2198765146436	Parc Cynog	2.200	3.20	2.40	2.40
584	584	2100040841771	Parc Cynog (Pendine)	2.200	34.95	2.10	2.10
585	585	2100040960600	Maesgwyn		75.19	2.02	2.02
586	586	2100040989413	Ferndale Wind Farm		33.60	1.65	1.65
587	587	2100041090096	Pant y Wal WF		38.32	1.96	1.96
588	588	2100041063650	Mynydd Portref		14.56	1.69	1.69
589	589	2100041383878	Newton Down		23.98	1.50	1.50
590	590	2100041200253	Tiers Cross (Rose Cottage)		11.08	2.67	2.67
593	593	2189999997503 2189999997512	Camford	2.431		10.50	10.50
594	594	2189999997025 2189999997034 2189999997043	Hoover	0.632	458.92	9.65	9.65
610	610	2100041407749	Berthllwyd Farm		4.75	2.17	2.17
612	612	2100041412093	Whitton Mawr		14.29	1.83	1.83
613	613	2100041412118	Barry Dock Biomass		116.08	2.14	2.14
614	614	2100041412172	North Tenement	3.495	29.34	2.04	2.04
615	615	2100041416423	Bryn Cyrnau Isaf	2.063	16.87	3.25	3.25
620	620	2199989611348	University Hospital of Wales	1.456	305.95	3.07	3.07
622	622	2199989609970	QuinetiQ	3.384	152.97	11.18	11.18
623	623	2100041070815 2100041071828	Western Coal	0.025	1,740.00	6.43	6.43
625	625	2100040983990	Tregaron	4.200	1.51	1.82	1.82
627	627	2100041072798	Waunarlwydd STOR	0.432	3.43	1.43	1.43
628	628	2100041078805	Briton Ferry STOR	0.044	4.72	1.30	1.30
629	629	2100041089700	Hirwaun STOR	0.081	4.58	1.43	1.43
631	631	2100041080121	Ffos Las	0.986	12.48	2.94	2.94
632	632	2100041080140	Pont Andrew Tee	1.144	12.60	2.50	2.50
634	634	2100041495912	UNIT 26C STOR 33kV GEN	0.015	6.54	1.90	1.90
671	671	2100041495940	TECHBOARD STOR 33kV GEN	0.016	6.54	1.90	1.90

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

Import Unique Identifier	LLFC	Import 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)
680	680	2100041526631	Bryn Blaen 66kV WF	2.080	9.68	4.83	4.83
681	681	2100041539170	YSTRADFFIN 33kV GEN	2.100	33.94	2.70	2.70
683	683	2100041541773	Blaen Egel Fawr 33kV WF	0.069	18.20	1.19	1.19
750	750	2100041422668	BRECHFA WEST 132kV GEN	0.006	14.14	2.23	2.23
760	760	2100041324775	Pen Y Cymoedd WF Aux.	0.039	1,722.39	2.78	2.78
761	761	2100041490037	AFON WAY 33kV GEN	0.044	9.81	1.90	1.90
762	762	2100041418350	MANMOEL 33kV GEN	0.326	42.87	2.78	2.78
763	763	2100041438659	Maesgwyn Extension PV	0.066	11.98	2.85	2.85
764	764	2100041444801	CRUMLIN 33kV GEN	0.323	15.97	1.72	1.72
765	765	2100041445958	PEN BRYN OER 33kV GEN		37.62	1.70	1.70
880	880	2189999997595	Tata Margam			3.22	3.22
882	882	2100041103391	Tir John STOR	0.150	3.87	1.32	1.32
883	883	2100041105593	Wear Point WF	0.930	10.65	1.54	1.54
884	884	2100041113229	West Farm PV	0.565	7.36	1.98	1.98
885	885	2100041113326	Jordanston Farm PV	1.395	3.32	4.27	4.27
886	886	2100041115787	Rudbaxton	1.124	7.47	4.62	4.62
888	888	2100041120350	Dowlais STOR		6.25	1.30	1.30
890	890	2100041142372	Trident Park		986.67	1.28	1.28
891	891	2100041150763	Baglan PV	0.044	6.82	2.50	2.50
892	892	2100041150781	Whitland (Caermelyn)	1.365	6.25	2.02	2.02
893	893	2100041150833	Liddlestone Ridge	1.900	3.33	7.07	7.07
894	894	2100041172093	Garn farm		40.36	1.70	1.70
895	895	2100041172075	Llandarcy STOR	0.153	18.18	1.69	1.69
896	896	2100041195090	Treguff Farm	0.002	16.45	2.94	2.94
897	897	2100041197887	Loughor Farm		4.13	3.58	3.58
898	898	2100041197869	Sutton Farm		14.57	2.40	2.40
899	899	2100041201318	Cefn Betingau		1.74	4.75	4.75
900	900	2100041201293	Clawdd Ddu	0.043	2.26	6.13	6.13
901	901	2100041212221	Pentre Farm	1.144	168.35	2.35	2.35
902	902	2100041221059	Barry STOR	0.102	28.57	1.60	1.60
903	903	2100041230833	Fenton Farm	1.105	3.31	6.13	6.13
904	904	2100041240344	Yerbeston Gate	3.172	13.23	2.48	2.48
905	905	2100041251258	Pen y cae	0.043	6.03	3.28	3.28
906	906	2100041251276	Saron	0.043	11.74	2.92	2.92
907	907	2100041254969	Hendre Fawr Farm	0.070	2.01	4.40	4.40
908	908	2100041257250	Hendai Farm		3.95	3.86	3.86

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

Import Unique Identifier	LLFC	Import 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)
909	909	2100041258591	Cwm Cae Singrug	0.327	6.80	2.74	2.74
910	910	2100041252819	Brynteg Farm	1.181	6.04	3.95	3.95
911	911	2100041260304	Court Coleman	2.104	10.46	6.34	6.34
912	912	2100041260331	Llwynddu	3.510	2.94	6.46	6.46
913	913	2100041260651	Cenin Energy Park (ex Stormy Down)		156.19	1.43	1.43
914	914	2100041260633	Abergelli Farm		54.63	1.98	1.98
915	915	2100041264080	Crug Mawr Farm	3.519	4.82	6.21	6.21
916	916	2100041265516	Yerbeston Chapel Hill	0.440	38.34	2.12	2.12
917	917	2100041265809	ABERAMAN 33kV GEN	0.022	135.38	1.46	1.46
918	918	2100041267912	Rhyd Y Pandy		5.25	3.22	3.22
919	919	2100041268837	Haverford West PV	1.105	6.16	2.61	2.61
920	920	2100041269812	Blaenlliedi Farm	1.144	16.03	2.35	2.35
2614	2614	2614	Aberystwyth - Manweb	0.212		13.88	13.88
7051	7051	7051	Centrica Barry			2.31	2.31
7159	7159	7159	British Energy (Solutia CVA)	0.065	8.17	1.87	1.87
7163	7163	7163	Aberaman Park	0.022	19.76	1.68	1.68
7328	7328	7328	Dowlais II STOR CVA		25.51	1.56	1.56
7346	7346	7346	GOWERTON EAST STOR 33kV GEN		26.00	1.47	1.47
New Import 1	New Import 1	New Import 1	BLACKBERRY LANE 33kV	0.440	11.16	2.62	2.62
New Import 2	New Import 2	New Import 2	Brechfa Forest West Ext 132kV WF	0.006	5.85	2.05	2.05
New Import 3	New Import 3	New Import 3	Bryn Henllys 33kV PV	0.071	16.03	1.92	1.92
New Import 4	New Import 4	New Import 4	ENVIROPARKS 33kV GEN	0.081	184.31	1.72	1.72
New Import 5	New Import 5	New Import 5	FOEL TRWSNANT 66kV		57.73	1.78	1.78
New Import 6	New Import 6	New Import 6	Full Circle HSE 66kV STOR	0.579	10.94	2.16	2.16
New Import 7	New Import 7	New Import 7	LLANWERN FM 132kV GEN		1.67	2.79	2.79
New Import 8	New Import 8	New Import 8	Longlands Solar Park 33kV PV		10.65	1.83	1.83
New Import 9	New Import 9	New Import 9	Lynfi 66kV Biomass		47.26	1.67	1.67
New Import 10	New Import 10	New Import 10	MATHERN STOR 33kV GEN		42.28	2.16	2.16
New Import 11	New Import 11	New Import 11	MELIN COURT 33kV GEN	0.086	19.40	1.82	1.82
New Import 12	New Import 12	New Import 12	PENCOED STOR 132kV	0.004	3.29	2.54	2.54
New Import 13	New Import 13	New Import 13	PENDERI 132kV GEN		15.14	3.75	3.75
New Import 14	New Import 14	New Import 14	Rhoscrowther 132kV WF		6.99	2.14	2.14
New Import 15	New Import 15	New Import 15	SOUTHBROOK STOR 33kV GEN		6.14	2.15	2.15
New Import 16	New Import 16	New Import 16	TAFF ELY EXTENSION 33kV GEN		3.89	1.69	1.69
New Import 17	New Import 17	New Import 17	Wentlog 33kV Biomass		565.09	1.97	1.97

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

Western Power Distribution (South Wales) plc - Effective from 1 April 2020 - Final EDCM export charges

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
425	425	2100041256901	Mynydd Y Bwllfa		1,483.43	0.05	0.05
426	426	2100041327882	MARGAM BIOMASS 132kV (exWLOG1G)	-0.038	1,569.21	0.05	0.05
427	427	2100041453141	MYNYDD Y GWAIR 132kV		1,547.03	0.05	0.05
975	975	2100041270320	Penrhiwarwydd Farm		889.34	0.05	0.05
976	976	2100041272870	Little Neath		1,017.03	0.05	0.05
943	943	2100041136546	Hoplass		929.12	0.05	0.05
977	977	2100041278161	Gelliwern Isaf		645.04	0.05	0.05
978	978	2100041290967	Oak cottage		4,659.91	0.05	0.05
979	979	2100041309935	Red Court		685.65	0.05	0.05
980	980	2100041319367	Carn Nicholas		680.41	0.05	0.05
981	981	2100041320655	Brynwhilach Farm		964.87	0.05	0.05
982	982	2100041320691	Pant Y Moch PV Boundary		1,283.95	0.05	0.05
983	983	2100041321817	Jesus College		681.81	0.05	0.05
984	984	2100041322192	Sully Moors	-0.033	1,129.09	0.05	0.05
985	985	2100041330928	Hafod Y Dafal #2		2,136.03	0.05	0.05
989	989	2100041336725	Stormy Down PV		1,147.28	0.05	0.05
721	721	2100041336743	OAK GROVE FM 33kV GEN		685.53	0.05	0.05
722	722	2100041329072	LLANCADLE 33kV GEN		646.77	0.05	0.05
723	723	2100041339187	Lower House farm		6,286.90	0.05	0.05
724	724	2100041343607	DERWYN FM 33kV GEN		658.26	0.05	0.05
725	725	2100041343945	Rosedew Farm		944.59	0.05	0.05
726	726	2100041344656	Pen Rhiw Caradog PV		674.67	0.05	0.05
727	727	2100041345419	Mynydd Y Gwrhyd		984.61	0.05	0.05
728	728	2100041346900	TONYPANDY STOR 33kV GEN	-0.319	641.60	0.05	0.05
729	729	2100041346885	TRASTON ROAD 33kV GEN	-0.310	729.13	0.05	0.05
730	730	2100041347211	Maesgwyn Extension WF		299.57	0.05	0.05
731	731	2100041363427	MANOR FM 66kV GEN		801.98	0.05	0.05
733	733	2100041355198	Rhewl Farm		709.23	0.05	0.05
735	735	2100041383520	BARGOED 33V GEN		620.65	0.05	0.05
736	736	2100041383831	MYNYDD BROMBIL 33kV GEN		2,201.59	0.05	0.05
737	737	2100041383850	RASSAU IE 33kV GEN	-0.016	1,736.11	0.05	0.05
738	738	2100041394114	Llynfi Afan		3,717.29	0.05	0.05
739	739	2100041394132	MYNYDD YR ABER 66kV GEN		5,635.59	0.05	0.05
740	740	2100041401792	WAUN Y POUND #1 33kV GEN	-0.016	610.32	0.05	0.05
741	741	2100041403647	COCKETT VALLEY 33kV GEN		1,105.17	0.05	0.05
742	742	2100041403665	NANTHENFOEL 33kV GEN		776.44	0.05	0.05

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

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

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
743	743	2100041403683	WAUN Y POUND #2 33kV GEN	-0.016	610.32	0.05	0.05
744	744	2100041407776	St Peters Church		8,467.79	0.05	0.05
664	664	2100040067477	ABB Cornelly		954.08	0.05	0.05
674	674	2100041079047	Bettws		1,003.63	0.05	0.05
660	660	2100040126333	Blaen Bowi				
778	778	2100041256140	Ford Bridgend		101.47	0.05	0.05
619	619	2100040023638 2100040023647	Interbrew Magor USKM				
633	633	2198765427530	Bridgend Paper Mill	-0.843	96.62	0.05	0.05
617	617	2100040890412 2100040890430 2100040890440 2100040890459	Monsanto	-0.997	180.16	0.05	0.05
636	636	2189999997354	Dow Corning				
786	786	2100041213572	DCWW Rover Way	-0.190	117.23	0.05	0.05
678	678	2100040752396 2100040752401	Milford Energy		158.25	0.05	0.05
663	663	2100040495600	Blaen Cregan				
668	668	2100040878016	Blaengwen		15,531.01	0.05	0.05
651	651	2100041471239 2199989632384	Bryn Titli		792.51	0.05	0.05
665	665	2100040067529	Crymlin Burrows				
652	652	2189999997390	Dyffryn Brodyn				
653	653	2199989612769	Llyn Brianne				
676	676	2100041079180	Maerdy		1,953.47	0.05	0.05
773	773	2100041416450	HIRWAUN GE 33kV GEN	-0.084	771.74	0.05	0.05
661	661	2100040719983	BOC Biomass 33kV (exMBIO3G)		2,639.83	0.05	0.05
670	670	2100040485940	Pwllfa Gwatkin				
650	650	2189999997345	Taff Ely		688.98	0.05	0.05
662	662	2100040609507	Trecatti		779.99	0.05	0.05
666	666	2100040694051	Withy Hedges	-1.522	700.43	0.05	0.05
659	659	2198765142992	Parc Cynog				
667	667	2100040841780	Parc Cynog (Pendine)		609.98	0.05	0.05
684	684	2100040960619	Maesgwyn		5,413.84	0.05	0.05
679	679	2100040989431	Ferndale Wind Farm		1,075.11	0.05	0.05
685	685	2100041090087	Pant y Wal WF		3,579.13	0.05	0.05
686	686	2100041063669	Mynydd Portref		970.99	0.05	0.05
687	687	2100041383887	Newton Down		1,147.45	0.05	0.05
649	649	2100041200262	Tiers Cross (Rose Cottage)		1,131.08	0.05	0.05

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

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
745	745	2100041407758	Berthllwyd Farm		808.54	0.05	0.05
747	747	2100041412109	Whitton Mawr		628.97	0.05	0.05
748	748	2100041412127	Barry Dock Biomass	-0.039	1,326.80	0.05	0.05
749	749	2100041412181	North Tenement		1,335.19	0.05	0.05
772	772	2100041416432	Bryn Cyrnau Isaf		1,089.83	0.05	0.05
658	658	2199989641360	Tregaron	-4.200	151.46	0.05	0.05
646	646	2100041072803	Waunarlwydd STOR	-0.432	685.40	0.05	0.05
645	645	2100041078814	Briton Ferry STOR	-0.065	1,026.82	0.05	0.05
644	644	2100041089685	Hirwaun STOR	-0.083	995.98	0.05	0.05
643	643	2100041080130	Ffos Las		624.15	0.05	0.05
642	642	2100041080177	Pont Andrew Tee		630.10	0.05	0.05
922	922	2100041495921	UNIT 26C STOR 33kV GEN	-0.015	2,850.78	0.05	0.05
921	921	2100041495959	TECHBOARD STOR 33kV GEN	-0.016	2,850.78	0.05	0.05
990	990	2100041526640	Bryn Blaen 66kV WF		942.00	0.05	0.05
991	991	2100041539180	YSTRADFFIN 33kV GEN	-3.231	610.98	0.05	0.05
993	993	2100041541782	Blaen Egel Fawr 33kV WF		937.90	0.05	0.05
779	779	2100041422677	BRECHFA WEST 132kV GEN		1,697.90	0.05	0.05
789	789	2100041490046	AFON WAY 33kV GEN	-0.044	785.15	0.05	0.05
774	774	2100041418360	MANMOEL 33kV GEN		1,486.15	0.05	0.05
775	775	2100041438668	Maesgwyn Extension PV		331.08	0.05	0.05
776	776	2100041444810	CRUMLIN 33kV GEN	-0.323	960.56	0.05	0.05
777	777	2100041445967	PEN BRYN OER 33kV GEN		1,188.75	0.05	0.05
601	601	2189999998739	Tata Margam	-0.460		0.05	0.05
790	790	2100041103407	Tir John STOR	-0.215	919.87	0.05	0.05
940	940	2100041105609	Wear Point WF		1,521.90	0.05	0.05
791	791	2100041113247	West Farm PV		650.91	0.05	0.05
792	792	2100041113335	Jordanston Farm PV		755.52	0.05	0.05
793	793	2100041115796	Rudbaxton		1,359.84	0.05	0.05
942	942	2100041120360	Dowlais STOR		1,404.81	0.05	0.05
944	944	2100041142381	Trident Park		6,328.80	0.05	0.05
945	945	2100041150772	Baglan PV		1,706.12	0.05	0.05
946	946	2100041150790	Whitland (Caermelyn)		624.79	0.05	0.05
947	947	2100041150842	Liddlestone Ridge		698.28	0.05	0.05
948	948	2100041172109	Garn farm		645.69	0.05	0.05
949	949	2100041172084	Llandarcy STOR	-0.153	727.32	0.05	0.05
950	950	2100041195106	Treguff Farm		625.14	0.05	0.05
951	951	2100041197896	Loughor Farm		643.58	0.05	0.05
952	952	2100041197878	Sutton Farm		1,165.48	0.05	0.05
953	953	2100041201327	Cefn Betingau		626.52	0.05	0.05

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

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

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
954	954	2100041201309	Clawdd Ddu		926.62	0.05	0.05
955	955	2100041212230	Pentre Farm		1,683.51	0.05	0.05
956	956	2100041221068	Barry STOR	-0.102	1,142.86	0.05	0.05
957	957	2100041230842	Fenton Farm		2,384.08	0.05	0.05
958	958	2100041240353	Yerbeston Gate		1,322.96	0.05	0.05
959	959	2100041251267	Pen y cae		799.49	0.05	0.05
960	960	2100041251285	Saron		1,451.70	0.05	0.05
961	961	2100041254978	Hendre Fawr Farm		685.04	0.05	0.05
962	962	2100041257269	Hendai Farm		658.76	0.05	0.05
963	963	2100041258607	Cwm Cae Singrug		680.36	0.05	0.05
964	964	2100041252837	Brynteg Farm		647.78	0.05	0.05
965	965	2100041260313	Court Coleman		3,138.21	0.05	0.05
966	966	2100041260340	Llwynddu		639.77	0.05	0.05
967	967	2100041260660	Cenin Energy Park (ex Stormy Down)		1,015.24	0.05	0.05
968	968	2100041260642	Abergelli Farm		2,537.26	0.05	0.05
969	969	2100041264099	Crug Mawr Farm		1,157.99	0.05	0.05
970	970	2100041265525	Yerbeston Chapel Hill		3,067.13	0.05	0.05
971	971	2100041265818	ABERAMAN 33kV GEN	-0.080	1,588.40	0.05	0.05
972	972	2100041267930	Rhyd Y Pandy		1,049.77	0.05	0.05
973	973	2100041268846	Haverford West PV		1,231.54	0.05	0.05
974	974	2100041269821	Blaenlliedi Farm		801.31	0.05	0.05
7051	7051	7051	Centrica Barry				
7159	7159	7159	British Energy (Solutia CVA)	-0.116	255.60	0.05	0.05
7163	7163	7163	Aberaman Park	-0.035	617.88	0.05	0.05
7329	7329	7329	Dowlais II STOR CVA		1,401.67	0.05	0.05
7347	7347	7347	GOWERTON EAST STOR 33kV GEN		1,152.24	0.05	0.05
New Export 1	New Export 1	New Export 1	BLACKBERRY LANE 33kV		2,455.70	0.05	0.05
New Export 2	New Export 2	New Export 2	Brechfa Forest West Ext 132kV WF		1,111.32	0.05	0.05
New Export 3	New Export 3	New Export 3	Bryn Henllys 33kV PV		2,453.48	0.05	0.05
New Export 4	New Export 4	New Export 4	ENVIROPARKS 33kV GEN	-0.083	1,382.35	0.05	0.05
New Export 5	New Export 5	New Export 5	FOEL TRWSNANT 66kV		4,041.40	0.05	0.05
New Export 6	New Export 6	New Export 6	Full Circle HSE 66kV STOR	-0.579	2,303.91	0.05	0.05
New Export 7	New Export 7	New Export 7	LLANWERN FM 132kV GEN		983.18	0.05	0.05
New Export 8	New Export 8	New Export 8	Longlands Solar Park 33kV PV		1,033.00	0.05	0.05
New Export 9	New Export 9	New Export 9	Lynfi 66kV Biomass		2,363.15	0.05	0.05
New Export 10	New Export 10	New Export 10	MATHERN STOR 33kV GEN		4,413.91	0.05	0.05
New Export 11	New Export 11	New Export 11	MELIN COURT 33kV GEN		1,454.96	0.05	0.05
New Export 12	New Export 12	New Export 12	PENCOED STOR 132kV	-0.020	1,385.65	0.05	0.05
New Export 13	New Export 13	New Export 13	PENDERI 132kV GEN		8,810.82	0.05	0.05

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

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

Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	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)
New Export 14	New Export 14	New Export 14	Rhoscrowther 132kV WF		964.62	0.05	0.05
New Export 15	New Export 15	New Export 15	SOUTHBROOK STOR 33kV GEN		1,227.12	0.05	0.05
New Export 16	New Export 16	New Export 16	TAFF ELY EXTENSION 33kV GEN		679.94	0.05	0.05
New Export 17	New Export 17	New Export 17	Wentlog 33kV Biomass	-0.782	2,974.23	0.05	0.05

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

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

Western Power Distribution (South Wales) plc - 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				
HV Medium Non-Domestic	400	5-8	1.951	1.393	129.05				
Notes:	Refer to main text in LC14 Statement Of Charges								

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:									

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

Western Power Distribution (South Wales) plc - 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	17:00 to 19:30	07:30 to 17:00 19:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Weekends		12:00 to 13:00 16:00 to 21:00	00:00 to 12:00 13:00 to 16:00 21:00 to 24:00
Notes	All the above 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 Nov to Feb (excluding 22nd Dec to 4th Jan	17:00 to 19:30	07:30 to 17:00 19:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Monday to Friday Mar to Oct (plus 22nd Dec to 4th Jan inclusive)		07:30 to 22:00	00:00 to 07:30 22:00 to 24:00
Weekends		12:00 to 13:00 16:00 to 21:00	00:00 to 12:00 13:00 to 16:00 21:00 to 24:00
Notes	All the above 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 p/kVArh
LDNO LV: Domestic Unrestricted	30300	1	1.938			2.95			
LDNO LV: Domestic Two Rate	30301	2	2.051	1.008		2.95			
LDNO LV: Domestic Off Peak (related MPAN)	30302	2	0.999						
LDNO LV: Small Non Domestic Unrestricted	30303	3	1.568			5.89			
LDNO LV: Small Non Domestic Two Rate	30304	4	1.831	1.011		5.89			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	30305	4	1.000						
LDNO LV: LV Medium Non-Domestic	30306	5-8	1.722	0.975		26.51			
LDNO LV: LV Network Domestic	30307	0	7.667	1.372	1.005	2.95			
LDNO LV: LV Network Non-Domestic Non-CT	30308	0	6.700	1.297	0.982	5.89			
LDNO LV: LV HH Metered	30309	0	5.435	1.194	0.960	8.89	2.14	4.58	0.188
LDNO LV: NHH UMS category A	30310	8	2.162						
LDNO LV: NHH UMS category B	30311	1	2.337						
LDNO LV: NHH UMS category C	30312	1	2.860						
LDNO LV: NHH UMS category D	30313	1	1.993						
LDNO LV: LV UMS (Pseudo HH Metered)	30314	0	16.847	2.084	1.597				
LDNO LV: LV Generation NHH or Aggregate HH	30315	8 & 0	-0.839						
LDNO LV: LV Generation Intermittent	30316	0	-0.839						0.302
LDNO LV: LV Generation Non-Intermittent	30317	0	-7.029	-0.544	-0.166				0.302
LDNO HV: Domestic Unrestricted	30318	1	1.153			1.76			
LDNO HV: Domestic Two Rate	30319	2	1.220	0.600		1.76			
LDNO HV: Domestic Off Peak (related MPAN)	30320	2	0.594						
LDNO HV: Small Non Domestic Unrestricted	30321	3	0.933			3.50			
LDNO HV: Small Non Domestic Two Rate	30322	4	1.089	0.601		3.50			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	30323	4	0.594						
LDNO HV: LV Medium Non-Domestic	30324	5-8	1.024	0.580		15.77			
LDNO HV: LV Network Domestic	30325	0	4.561	0.816	0.598	1.76			
LDNO HV: LV Network Non-Domestic Non-CT	30326	0	3.985	0.771	0.584	3.50			
LDNO HV: LV HH Metered	30327	0	3.233	0.710	0.571	5.28	1.27	2.73	0.112
LDNO HV: LV Sub HH Metered	30328	0	3.818	0.995	0.862	6.35	2.20	4.12	0.124
LDNO HV: HV HH Metered	30329	0	3.778	1.131	1.018	70.53	2.71	5.26	0.110
LDNO HV: NHH UMS category A	30330	8	1.286						
LDNO HV: NHH UMS category B	30331	1	1.390						
LDNO HV: NHH UMS category C	30332	1	1.701						
LDNO HV: NHH UMS category D	30333	1	1.186						
LDNO HV: LV UMS (Pseudo HH Metered)	30334	0	10.022	1.240	0.950				
LDNO HV: LV Generation NHH or Aggregate HH	30335	8 & 0	-0.839						
LDNO HV: LV Sub Generation NHH	30336	8	-0.765						
LDNO HV: LV Generation Intermittent	30337	0	-0.839						0.302
LDNO HV: LV Generation Non-Intermittent	30338	0	-7.029	-0.544	-0.166				0.302
LDNO HV: LV Sub Generation Intermittent	30339	0	-0.765						0.254
LDNO HV: LV Sub Generation Non-Intermittent	30340	0	-6.395	-0.491	-0.158				0.254
LDNO HV: HV Generation Intermittent	30341	0	-0.521						0.212
LDNO HV: HV Generation Non-Intermittent	30342	0	-4.319	-0.313	-0.130				0.212
LDNO HVplus: Domestic Unrestricted	30343	1	0.735			1.12			
LDNO HVplus: Domestic Two Rate	30344	2	0.778	0.382		1.12			
LDNO HVplus: Domestic Off Peak (related MPAN)	30345	2	0.379						
LDNO HVplus: Small Non Domestic Unrestricted	30346	3	0.595			2.23			
LDNO HVplus: Small Non Domestic Two Rate	30347	4	0.694	0.383		2.23			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)	30348	4	0.379						
LDNO HVplus: LV Medium Non-Domestic	30349	5-8	0.653	0.370		10.05			
LDNO HVplus: LV Sub Medium Non-Domestic	30350	5-8	0.945	0.554		7.72			
LDNO HVplus: HV Medium Non-Domestic	30351	5-8	0.892	0.637		59.01			
LDNO HVplus: LV Network Domestic	30352	0	2.907	0.520	0.381	1.12			
LDNO HVplus: LV Network Non-Domestic Non-CT	30353	0	2.540	0.492	0.372	2.23			

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

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

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: LV HH Metered	30354	0	2.061	0.453	0.364	3.37	0.81	1.74	0.071
LDNO HVplus: LV Sub HH Metered	30355	0	2.387	0.622	0.539	3.97	1.38	2.58	0.077
LDNO HVplus: HV HH Metered	30356	0	2.332	0.698	0.628	43.52	1.67	3.25	0.068
LDNO HVplus: NHH UMS category A	30357	8	0.820						
LDNO HVplus: NHH UMS category B	30358	1	0.886						
LDNO HVplus: NHH UMS category C	30359	1	1.084						
LDNO HVplus: NHH UMS category D	30360	1	0.756						
LDNO HVplus: LV UMS (Pseudo HH Metered)	30361	0	6.388	0.790	0.606				
LDNO HVplus: LV Generation NHH or Aggregate HH	30362	8 & 0	-0.323						
LDNO HVplus: LV Sub Generation NHH	30363	8	-0.350						
LDNO HVplus: LV Generation Intermittent	30364	0	-0.323						0.116
LDNO HVplus: LV Generation Non-Intermittent	30365	0	-2.704	-0.209	-0.064				0.116
LDNO HVplus: LV Sub Generation Intermittent	30366	0	-0.350						0.116
LDNO HVplus: LV Sub Generation Non-Intermittent	30367	0	-2.924	-0.225	-0.072				0.116
LDNO HVplus: HV Generation Intermittent	30368	0	-0.521			59.57			0.212
LDNO HVplus: HV Generation Non-Intermittent	30369	0	-4.319	-0.313	-0.130	59.57			0.212
LDNO EHV: Domestic Unrestricted	30370	1	0.586			0.89			
LDNO EHV: Domestic Two Rate	30371	2	0.620	0.305		0.89			
LDNO EHV: Domestic Off Peak (related MPAN)	30372	2	0.302						
LDNO EHV: Small Non Domestic Unrestricted	30373	3	0.474			1.78			
LDNO EHV: Small Non Domestic Two Rate	30374	4	0.554	0.306		1.78			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	30375	4	0.302						
LDNO EHV: LV Medium Non-Domestic	30376	5-8	0.521	0.295		8.02			
LDNO EHV: LV Sub Medium Non-Domestic	30377	5-8	0.754	0.442		6.15			
LDNO EHV: HV Medium Non-Domestic	30378	5-8	0.711	0.508		47.06			
LDNO EHV: LV Network Domestic	30379	0	2.318	0.415	0.304	0.89			
LDNO EHV: LV Network Non-Domestic Non-CT	30380	0	2.026	0.392	0.297	1.78			
LDNO EHV: LV HH Metered	30381	0	1.643	0.361	0.290	2.69	0.65	1.39	0.057
LDNO EHV: LV Sub HH Metered	30382	0	1.904	0.496	0.429	3.16	1.10	2.06	0.062
LDNO EHV: HV HH Metered	30383	0	1.859	0.556	0.501	34.71	1.33	2.59	0.054
LDNO EHV: NHH UMS category A	30384	8	0.654						
LDNO EHV: NHH UMS category B	30385	1	0.707						
LDNO EHV: NHH UMS category C	30386	1	0.865						
LDNO EHV: NHH UMS category D	30387	1	0.603						
LDNO EHV: LV UMS (Pseudo HH Metered)	30388	0	5.094	0.630	0.483				
LDNO EHV: LV Generation NHH or Aggregate HH	30389	8 & 0	-0.257						
LDNO EHV: LV Sub Generation NHH	30390	8	-0.279						
LDNO EHV: LV Generation Intermittent	30391	0	-0.257						0.093
LDNO EHV: LV Generation Non-Intermittent	30392	0	-2.156	-0.167	-0.051				0.093
LDNO EHV: LV Sub Generation Intermittent	30393	0	-0.279						0.093
LDNO EHV: LV Sub Generation Non-Intermittent	30394	0	-2.332	-0.179	-0.058				0.093
LDNO EHV: HV Generation Intermittent	30395	0	-0.415			47.51			0.169
LDNO EHV: HV Generation Non-Intermittent	30396	0	-3.444	-0.250	-0.104	47.51			0.169
LDNO 132kV/EHV: Domestic Unrestricted	30397	1	0.491			0.75			
LDNO 132kV/EHV: Domestic Two Rate	30398	2	0.520	0.256		0.75			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)	30399	2	0.253						
LDNO 132kV/EHV: Small Non Domestic Unrestricted	30400	3	0.397			1.49			
LDNO 132kV/EHV: Small Non Domestic Two Rate	30401	4	0.464	0.256		1.49			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)	30402	4	0.253						
LDNO 132kV/EHV: LV Medium Non-Domestic	30403	5-8	0.436	0.247		6.72			
LDNO 132kV/EHV: LV Sub Medium Non-Domestic	30404	5-8	0.632	0.370		5.16			
LDNO 132kV/EHV: HV Medium Non-Domestic	30405	5-8	0.596	0.426		39.43			
LDNO 132kV/EHV: LV Network Domestic	30406	0	1.943	0.348	0.255	0.75			
LDNO 132kV/EHV: LV Network Non-Domestic Non-CT	30407	0	1.697	0.329	0.249	1.49			
LDNO 132kV/EHV: LV HH Metered	30408	0	1.377	0.302	0.243	2.25	0.54	1.16	0.048
LDNO 132kV/EHV: LV Sub HH Metered	30409	0	1.595	0.416	0.360	2.65	0.92	1.72	0.052
LDNO 132kV/EHV: HV HH Metered	30410	0	1.558	0.466	0.420	29.08	1.12	2.17	0.045
LDNO 132kV/EHV: NHH UMS category A	30411	8	0.548						
LDNO 132kV/EHV: NHH UMS category B	30412	1	0.592						
LDNO 132kV/EHV: NHH UMS category C	30413	1	0.725						
LDNO 132kV/EHV: NHH UMS category D	30414	1	0.505						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)	30415	0	4.268	0.528	0.405				
LDNO 132kV/EHV: LV Generation NHH or Aggregate HH	30416	8 & 0	-0.216						
LDNO 132kV/EHV: LV Sub Generation NHH	30417	8	-0.234						
LDNO 132kV/EHV: LV Generation Intermittent	30418	0	-0.216						0.078

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

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

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 132kV/EHV: LV Generation Non-Intermittent	30419	0	-1.807	-0.140	-0.043				0.078
LDNO 132kV/EHV: LV Sub Generation Intermittent	30420	0	-0.234						0.078
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent	30421	0	-1.954	-0.150	-0.048				0.078
LDNO 132kV/EHV: HV Generation Intermittent	30422	0	-0.348			39.81			0.142
LDNO 132kV/EHV: HV Generation Non-Intermittent	30423	0	-2.886	-0.209	-0.087	39.81			0.142
LDNO 132kV: Domestic Unrestricted	30424	1	0.278			0.42			
LDNO 132kV: Domestic Two Rate	30425	2	0.294	0.144		0.42			
LDNO 132kV: Domestic Off Peak (related MPAN)	30426	2	0.143						
LDNO 132kV: Small Non Domestic Unrestricted	30427	3	0.225			0.84			
LDNO 132kV: Small Non Domestic Two Rate	30428	4	0.262	0.145		0.84			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)	30429	4	0.143						
LDNO 132kV: LV Medium Non-Domestic	30430	5-8	0.247	0.140		3.80			
LDNO 132kV: LV Sub Medium Non-Domestic	30431	5-8	0.357	0.209		2.92			
LDNO 132kV: HV Medium Non-Domestic	30432	5-8	0.337	0.241		22.30			
LDNO 132kV: LV Network Domestic	30433	0	1.098	0.197	0.144	0.42			
LDNO 132kV: LV Network Non-Domestic Non-CT	30434	0	0.960	0.186	0.141	0.84			
LDNO 132kV: LV HH Metered	30435	0	0.779	0.171	0.138	1.27	0.31	0.66	0.027
LDNO 132kV: LV Sub HH Metered	30436	0	0.902	0.235	0.204	1.50	0.52	0.97	0.029
LDNO 132kV: HV HH Metered	30437	0	0.881	0.264	0.237	16.45	0.63	1.23	0.026
LDNO 132kV: NHH UMS category A	30438	8	0.310						
LDNO 132kV: NHH UMS category B	30439	1	0.335						
LDNO 132kV: NHH UMS category C	30440	1	0.410						
LDNO 132kV: NHH UMS category D	30441	1	0.286						
LDNO 132kV: LV UMS (Pseudo HH Metered)	30442	0	2.414	0.299	0.229				
LDNO 132kV: LV Generation NHH or Aggregate HH	30443	8 & 0	-0.122						
LDNO 132kV: LV Sub Generation NHH	30444	8	-0.132						
LDNO 132kV: LV Generation Intermittent	30445	0	-0.122						0.044
LDNO 132kV: LV Generation Non-Intermittent	30446	0	-1.022	-0.079	-0.024				0.044
LDNO 132kV: LV Sub Generation Intermittent	30447	0	-0.132						0.044
LDNO 132kV: LV Sub Generation Non-Intermittent	30448	0	-1.105	-0.085	-0.027				0.044
LDNO 132kV: HV Generation Intermittent	30449	0	-0.197			22.51			0.080
LDNO 132kV: HV Generation Non-Intermittent	30450	0	-1.632	-0.118	-0.049	22.51			0.080
LDNO 0000: Domestic Unrestricted	30451	1	0.081			0.12			
LDNO 0000: Domestic Two Rate	30452	2	0.085	0.042		0.12			
LDNO 0000: Domestic Off Peak (related MPAN)	30453	2	0.042						
LDNO 0000: Small Non Domestic Unrestricted	30454	3	0.065			0.25			
LDNO 0000: Small Non Domestic Two Rate	30455	4	0.076	0.042		0.25			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)	30456	4	0.042						
LDNO 0000: LV Medium Non-Domestic	30457	5-8	0.072	0.041		1.10			
LDNO 0000: LV Sub Medium Non-Domestic	30458	5-8	0.104	0.061		0.85			
LDNO 0000: HV Medium Non-Domestic	30459	5-8	0.098	0.070		6.48			
LDNO 0000: LV Network Domestic	30460	0	0.319	0.057	0.042	0.12			
LDNO 0000: LV Network Non-Domestic Non-CT	30461	0	0.279	0.054	0.041	0.25			
LDNO 0000: LV HH Metered	30462	0	0.226	0.050	0.040	0.37	0.09	0.19	0.008
LDNO 0000: LV Sub HH Metered	30463	0	0.262	0.068	0.059	0.44	0.15	0.28	0.008
LDNO 0000: HV HH Metered	30464	0	0.256	0.077	0.069	4.78	0.18	0.36	0.007
LDNO 0000: NHH UMS category A	30465	8	0.090						
LDNO 0000: NHH UMS category B	30466	1	0.097						
LDNO 0000: NHH UMS category C	30467	1	0.119						
LDNO 0000: NHH UMS category D	30468	1	0.083						
LDNO 0000: LV UMS (Pseudo HH Metered)	30469	0	0.701	0.087	0.066				
LDNO 0000: LV Generation NHH or Aggregate HH	30470	8 & 0	-0.035						
LDNO 0000: LV Sub Generation NHH	30471	8	-0.038						
LDNO 0000: LV Generation Intermittent	30472	0	-0.035						0.013
LDNO 0000: LV Generation Non-Intermittent	30473	0	-0.297	-0.023	-0.007				0.013
LDNO 0000: LV Sub Generation Intermittent	30474	0	-0.038						0.013
LDNO 0000: LV Sub Generation Non-Intermittent	30475	0	-0.321	-0.025	-0.008				0.013
LDNO 0000: HV Generation Intermittent	30476	0	-0.057			6.54			0.023
LDNO 0000: HV Generation Non-Intermittent	30477	0	-0.474	-0.034	-0.014	6.54			0.023

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 – Schedule of Line Loss Factors

This table has intentionally been left blank. The line loss factors that are approved by the BSC Panel for the applicable year and consequently published on the Elexon website will take precedence and be used in Settlement. This annex will be re-published once these values are available.

Western Power Distribution (South Wales) plc - Illustrative LLFs for year beginning 1 April 2020				
Time periods	**Period 1**	**Period 2**	**Period 3**	**Period 4**
	Peak	**Winter**	**Night**	**Other**
Monday to Friday Mar to Oct			00:30 - 07:30	00:00 - 00:30 07:30 - 24:00
Monday to Friday Nov to Feb	16:00 – 19:00	07:30 – 16:00	00:30 - 07:30	00:00 - 00:30 19:00 - 24:00
Saturday and Sunday All Year			00:30 - 07:30	00:00 - 00:30 07:30 - 24:00
Notes	All the above 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**	**Associated LLFC**
Low-voltage network					
Low-voltage substation					
High-voltage network					
High-voltage substation					
33kV generic					
33kV generic					
132kV generic					
132kV generic					

EHV site specific LLFs					
Demand					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1					
Site 2					
Site 3					
Site 4					
Site 5					

EHV site specific LLFs					
Generation					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Site 1					
Site 2					
Site 3					
Site 4					
Site 5					

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).

Western Power Distribution (South Wales) plc - Effective from 1 April 2020 - Final new designated EHV charges															
Effective from date	Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import Super Red unit charge (p/kWh)	Import fixed charge (p/day)	Import capacity charge (p/kVA/day)	Import exceeded capacity charge (p/kVA/day)	Export Super Red unit charge (p/kWh)	Export fixed charge (p/day)	Export capacity charge (p/kVA/day)	Export exceeded capacity charge (p/kVA/day)
	EDCM import 1			EDCM export 1											
	EDCM import 2			EDCM export 2											
	EDCM import 3			EDCM export 3											
	EDCM import 4			EDCM export 4											
	EDCM import 5			EDCM export 5											
	EDCM import 6			EDCM export 6											
	EDCM import 7			EDCM export 7											
	EDCM import 8			EDCM export 8											
	EDCM import 9			EDCM export 9											
	EDCM import 10			EDCM export 10											

Western Power Distribution (South Wales) plc - Effective from 1 April 2020 - Final new designated EHV line loss factors															
Effective from date	Import Unique Identifier	LLFC	Import MPANs/MSIDs	Export Unique Identifier	LLFC	Export MPANs/MSIDs	Name	Import LLF period 1	Import LLF period 2	Import LLF period 3	Import LLF period 4	Export LLF period 1	Export LLF period 2	Export LLF period 3	Export LLF period 4
	EDCM Import 1			EDCM Export 1											
	EDCM Import 2			EDCM Export 2											
	EDCM Import 3			EDCM Export 3											
	EDCM Import 4			EDCM Export 4											
	EDCM Import 5			EDCM Export 5											
	EDCM Import 6			EDCM Export 6											
	EDCM Import 7			EDCM Export 7											
	EDCM Import 8			EDCM Export 8											
	EDCM Import 9			EDCM Export 9											
	EDCM Import 10			EDCM Export 10											

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.