WESTERN POWER DISTRIBUTION

Serving the Midlands, South West and Wales

Western Power Distribution

(West Midlands) plc

Use of System Charging Statement

FINAL NOTICE

Effective from 1st April 2013

Version 6.5

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

Version Control

Version	Date	Description of version and any changes made
V6.5	December 2012	Final Version

Contents

1. Introduction

1.1. This statement has been prepared in order to discharge Western Power Distribution (West Midlands) plc's (hereafter referred to as WPD) obligation under Standard Licence Condition 14 of our Electricity Distribution Licence. It contains information on our charges[1] and charging principles for use of our Distribution System. It also contains information on our Line Loss Factors.

1.2. The charges in this statement are calculated using the Common Distribution Charging Methodology (CDCM) for LV/HV Designated Properties and the EHV Distribution Charging Methodology (EDCM) for Designated EHV Properties. The application of charges to a premise can be referenced using the Line Loss Factor Class (LLFC) contained in the charge tables.

1.3. If you have any questions about this statement please contact us at the address shown below:

WPD Income and Connections
Western Power Distribution
Avonbank
Feeder Rd
Bristol
BS2 0TB
Email : wpdpricing@westernpower.co.uk

1.4. All enquiries regarding Connection Agreements and Changes to Maximum Capacities should be addressed to:

Connection Policy Engineer
Western Power Distribution
Avonbank
Feeder Rd
Bristol
BS2 0TB
Email : wpdpricing@westernpower.co.uk

1.5. For all other queries please contact our general enquiries telephone number: 0845 724 0240, lines are open 08:00 to 18:00 Monday to Friday.

[1] Charges can be positive or negative.

2. Charge Application and Definitions

Supercustomer Billing and Payment

2.1. Supercustomer billing and payment applies to Metering Points registered as Non-Half Hourly (NHH) metered. The Supercustomer approach makes use of aggregated data obtained from the Supercustomer DUoS Report.

2.2. Invoices are calculated on a periodic basis and sent to each User, for whom WPD is transporting electricity through its Distribution System. Invoices are reconciled, over a period of approximately 14 months, to ensure the cash positions of Users and WPD are adjusted to reflect later and more accurate consumption figures.

2.3. The charges are applied on the basis of the Line Loss Factor Classes (LLFCs) assigned to the MPAN, and the units consumed within the time periods specified in this statement. These time periods may not necessarily be the same as those indicated by the Time Pattern Regimes (TPRs) associated to the Standard Settlement Class (SSC) – specific to DNOs. All Line Loss Factor Classes (LLFCs) are assigned at the sole discretion of WPD. The charges in this document are shown exclusive of VAT. Invoices take account of previous Settlement runs and include VAT.

Supercustomer Charges

2.4. Supercustomer charges are generally billed through the following components:

- A fixed charge - pence/MPAN/day, there will only be one fixed charge applied to each Metering Point Administration Number (MPAN) in respect of which you are registered; and
- Unit charges - pence/kilowatt-hour (kWh), based on the active consumption/production as provided through Settlement. More than one kWh charge may be applied.

2.5. These charges apply to Exit/Entry Points where NHH metering is used for Settlement.

2.6. Users who wish to supply electricity to Customers whose Metering System is Measurement Class A and settled on Profile Classes 1 through to 8 will be allocated the relevant charge structure set out in Annex 1.

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

2.8. Valid Settlement Profile Class/Standard Settlement Configuration/Meter Timeswitch Code (PC/SSC/MTC) combinations for these LLFCs are detailed in Market Domain Data (MDD).

2.9. WPD does not apply a default tariff for invalid combinations.

- For all two rate NHH MPANs night is defined as 00.30 to 07.30 hours.

2.10. To determine the appropriate charge rate for each SSC/TPR a lookup table is provided in the spreadsheet that accompanies this statement[2].

2.11. 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

2.12. Site-specific billing and payment applies to Metering Points registered as Half Hourly (HH) metered. The site-specific billing and payment approach to Use of System billing makes use of Half Hourly (HH) metering data received through Settlement.

2.13. Invoices are calculated on a periodic basis and sent to each User, for whom WPD is transporting electricity through its Distribution System. Where an account is based on estimated data, the account shall be subject to any adjustment which may be necessary following the receipt of actual data from the User.

2.14. The charges are applied on the basis of the Line Loss Factor Classes (LLFCs) assigned to the MPAN (or the MSID for CVA sites), and the units consumed within the time periods specified in this statement. All [Line Loss Factor Classes (LLFCs)] are assigned at the sole discretion of WPD. The charges in this document are shown exclusive of VAT.

Site-Specific Billed Charges

2.15. Site-Specific billed charges may include the following components:

- A fixed charge pence/MPAN/day;
- A capacity charge, pence/kVA/day, for agreed Maximum Import Capacity (MIC) and/or Maximum Export Capacity (MEC);

[2] WPD MIDE - Schedule of charges and other tables - Version7.xlsx

- An excess capacity charge, pence/kVA/day, if a site exceeds its MIC and/or MEC;
- Unit charges, pence/kWh, for transportation of electricity over the system; and
- An excess reactive power charge, pence/kVArh, for each unit in excess of the reactive charge threshold.

2.16. These charges apply to Exit/Entry Points where HH metering, or an equivalent meter, is used for Settlement purposes.

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

2.18. Fixed charges are generally levied on a pence per MPAN basis. Where two or more HH MPANs 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.

2.19. LV & HV Designated Properties as calculated using the CDCM will be allocated the relevant charge structure set out in Annex 1.

2.20. Designated EHV Properties as calculated using the EDCM will be allocated the relevant charge structure set out in Annex 2.

Time Periods for Half Hourly Metered Properties

2.21. The time periods for the application of unit charges to LV & HV Designated Properties which are Half Hourly metered are as follows:

	Monday to Friday	Weekends
Unit Rate 1: Red	16:00 to 19:00	
Unit Rate 2: Amber	07:30 to 16:00 19:00 to 21:00	
Unit Rate 3: Green	00:00 to 07:30 21:00 to 24:00	00:00 to 24:00

- All times are UK clock time.
- WPD has not issued a notice to change the time bands.

2.22. The time periods for the application of unit charges to Designated EHV Properties are as follows:

- Unit charges in the super red time band apply – between 16:00 and 19:00, Mon to Fri including Bank Holidays from 1st November to the last date in February.
- All times are UK clock time.

WPD has not issued a notice to change the time bands.

Charges for Unmetered Supplies

2.23. Users who wish to supply electricity to Customers whose Metering System is Measurement Class B or Measurement Class D will be allocated the relevant charge structure in the Annex 1.

2.24. These charges are available to Exit Points which WPD deems to be suitable as Unmetered Supplies as permitted in the Electricity (Unmetered Supply) Regulations 2001[3] and where operated in accordance with BSCP520[4].

Time Periods for Half Hourly Unmetered Properties

2.25. The time periods for the application of unit charges to connections which are pseudo HH metered are as follows:

	Monday to Friday Nov to Feb	Monday to Friday Mar to Oct	Weekends
Unit Rate 1: black	16:00 to 19:00		
Unit Rate 2: Yellow	07:30 to 16:00 19:00 to 21:00	07:30 to 21:00	
Unit Rate 3: Green	00:00 to 07:30 21:00 to 24:00	00:00 to 07:30 21:00 to 24:00	00:00 to 24:00

- All times are in UK clock time.
- WPD has not issued a notice to change the time bands.

Use of System Charges Out of Area

2.26. WPD does not operate networks outside its Distribution Service Area.

Application of Capacity Charges

Chargeable Capacity

2.27. The Chargeable Capacity is, for each billing period, the highest of the MIC/MEC or the actual capacity, calculated as detailed below.

2.28. The MIC/MEC will be agreed with WPD at the time of connection or pursuant to a later change in requirements. Following such an agreement (be it at the time

[3] The Electricity (Unmetered Supply) Regulations 2001 available from http://www.legislation.gov.uk/uksi/2001/3263/made
[4] Balancing and Settlement Code Procedures on unmetered supplies and available from http://www.elexon.co.uk/pages/bscps.aspx

of connection or later) no reduction in MIC/MEC will be allowed for a period of one year. In the absence of an agreement the chargeable capacity, save for error or omission, will be based on the last MIC and/or MEC previously agreed by the distributor for the relevant premises' connection. A Customer can seek to agree or vary the MIC and/or MEC by contacting WPD0 using the contact details in paragraph 1.4.

2.29. Reductions to the MIC/MEC may only be permitted once in a 12 month period and no retrospective changes will be allowed. Where MIC/MEC is reduced the new lower level will be agreed with reference to the level of the Customer's maximum demand. 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 cost.

Demand Chargeable Capacity

$$\mathrm{DemandChargeableCapacity} = \mathrm{Max}(2 \times \sqrt{AI^2 + \mathrm{max}(RI,RE)^2}, MIC)$$

Where:

AI = Import consumption in kWh

RI = Reactive import in kVArh

RE = Reactive export in kVArh

MIC = Maximum Import Capacity in kVA

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

2.31. Only kVArh Import and kVArh Export values occurring at times of kWh Import are used.

Generation Chargeable Capacity

$$\mathrm{GenerationChargeableCapacity} = \mathrm{Max}(2 \times \sqrt{AE^2 + \mathrm{max}(RI,RE)^2}, MEC)$$

Where:

AE = Export Production in kWh

RI = Reactive import in kVArh

RE = Reactive export in kVArh

MEC = Maximum Export Capacity in kVA

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

2.33. Only kVArh Import and kVArh Export values occurring at times of kWh Export are used.

Standby Capacity for Additional Security on Site

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

Exceeded Capacity

2.35. 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. This will be charged for the duration of the full month in which the breach occurs.

Minimum Capacity Levels

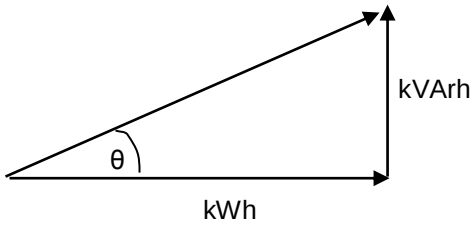
2.36. There is no minimum capacity threshold.

Application of charges for excess reactive power

2.37. The excess reactive power charge applies when a site's reactive power (measured in kVArh) exceeds 33% of total active power (measured in kWh) in any half-hourly period. This threshold is equivalent to an average power factor of 0.95 during the period. Any reactive units in excess of the 33% threshold are charged at the rate appropriate to the particular charge.

2.38. Power Factor is calculated as follows:

Cos θ = Power Factor



2.39. The chargeable reactive power is calculated as follows:

Demand Chargeable Reactive Power

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

Where:

AI = Active Import in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

2.41. Only kVArh Import and kVArh Export values occurring at times of kWh Import are used.

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

Generation Chargeable Reactive Power

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

Where:

AE = Active Export in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

2.44. Only kVArh Import and kVArh Export values occurring at times of kWh Export are used.

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

Provision of billing data

2.46. Where HH metering data is required for Use of System charging and this is not provided through Settlement processes, such metering data shall be provided by the User of the system to WPD in respect of each calendar month within 5 working days of the end of that calendar month. The metering data shall identify the amount consumed and/or produced in each half hour of each day and shall

separately identify active and reactive import and export. Metering data provided to WPD shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by WPD 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 D0036 MRA data flow (as agreed with the DNO). The data shall be e-mailed to wpdduos@westernpower.co.uk.

2.47. WPD requires reactive consumption or production to be provided for all Measurement Class C (mandatory HH metered) sites and for Measurement Class E (elective HH metered sites). WPD reserves the right to levy a charge on Users who fail to provide such reactive data.

Licensed Distributor Network Operator (LDNO) charges

2.48. LDNO charges are applied to LDNOs who operate Embedded Networks within WPD area.

2.49. The charge structure for LV and HV Designated Properties end users embedded in Networks operated by LDNOs will mirror the structure of the 'all-the-way' charge and is dependent upon the voltage of connection of each Embedded Network to the Host DNO's network. The same charge elements will apply as those that match the LDNO's end Customer charges.

2.50. WPD does not apply a default tariff for invalid combinations.

- For all two rate NHH MPANs night is defined as 00.30 to 07.30 hours.

2.51. The charge structure for Designated EHV Properties end-users embedded in Networks operated by LDNOs will be calculated individually using the EDCM.

2.52. For Nested Networks the Host DNO charges (or pays) the Nested LDNO on the basis of discounted charges for the voltage of connection of the Intermediate LDNO to the Host DNO, irrespective of the connection of the Nested LDNO to the Intermediate LDNO. Additional arrangements might exist between the Nested LDNO and the Intermediate LDNO; these arrangements are not covered in this statement.

3. Schedule of Charges for use of the Distribution System

3.1. Tables listing the charges for the distribution of electricity under use of system are published in annexes of this document.

3.2. These charges are also listed in a spreadsheet which is published with this statement and can be downloaded from http://www.westernpower.co.uk.

3.3. Annex 1 contains charges to LV and HV Designated Properties.

3.4. Annex 2 contains the charges to Designated EHV Properties and charges applied to LDNOs with Designated EHV Properties/end-users embedded in Networks within the WPD area.

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. DNO specific sentence to cover off any further use of the tables.

3.6. Annex 4 contains the charges applied to LDNOs with LV and HV Designated Properties end users embedded in Networks within WPD area.

4. Schedule of Line Loss Factors

Role of Line Loss Factors in the Supply of Electricity

4.1. Electricity entering or exiting the DNOs' networks is adjusted to take account of energy which is lost[5] as it is distributed through the network.

4.2. This adjustment is made to ensure that energy bought or sold by a User, from/to a Customer, accounts for energy lost as part of distributing energy to and from the Customer's premises.

4.3. DNOs are responsible for calculating the Line Loss Factors (LLFs) and providing these factors to Elexon. Elexon manage the Balancing and Settlement Code. The code covers the governance and rules for the balancing and settlement arrangements.

4.4. Annex 5 provides the LLFs which must be used to adjust the Metering System volumes to take account of losses on the Distribution Network.

Calculation of Line Loss Factors

4.5. LLFs are calculated in accordance with BSC Procedure (BSCP) 128. BSCP 128 determines the principles which DNOs must comply with when calculating LLFs.

4.6. LLFs are either calculated using a generic method or a site specific method. The generic method is used for sites connected at LV or HV and the site specific method is used for sites connected at EHV or where a request for site specific LLFs has been agreed. Generic LLFs will be applied to all new EHV sites until sufficient data is available for a site specific calculation.

4.7. The Elexon website (http://www.elexon.co.uk/pages/losses.aspx) contains more information on LLFs. This page also has links to BSCP 128 and to our LLF methodology.

Line Loss Factor time periods

4.8. LLFs are calculated for a set number of time periods during the year. These time periods are detailed in Annex 5.

[5] 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.

Line Loss Factor tables

4.9. When using the LLF tables in Annex 5 reference should be made to the LLFC allocated to the MPAN to find the appropriate LLF.

4.10. The Elexon Portal website, https://www.bsccentralservices.com/, contains the LLFs in standard industry data format (D0265). A user guide with details on registering and using the portal can be downloaded from https://www.bsccentralservices.com/index.php/userguide/download.

5. Notes for Designated EHV Properties

EDCM [nodal /network group] costs

5.1. The table in Annex 6 shows the un-scaled nodal /network group costs used to calculate the current EDCM charges.

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, i.e. 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.

Charges for New Designated EHV Properties

5.3. When new Designated EHV Properties, that are not already included in the charging statement, are energised after publication of charging statements an addendum to the current statement will be issued incorporating the appropriate charges for the new site.

5.4. The form of the addendum is detailed in Annex 7 of this statement.

5.5. The addendum will be sent to DCUSA parties and published as a revised "Schedule of Charges and other tables" spreadsheet on our website. The addendum will include charge information that under enduring circumstances would be found in Annex 2 and line loss factors that would normally be found in Annex 5.

5.6. The new Designated EHV Properties charges will be added to Annex 2 in the next full statement released.

Demand Side Management

5.7. WPD's Demand Side Management approach is as follows:

- All EDCM customers will be entitled to enter into a Demand Side Management Contract
- WPD may, at its 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 WPD's 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.
- Requests for Demand Side Management agreements should be sent to the Income and Connections Manager at the address shown in paragraph 1.3

6. Electricity Distribution Rebates

6.1. WPD has neither given nor announced any distribution use of system rebates to Users in the 12 months preceding the date of publication of this revision of the statement.

7. Accounting and Administration Services

Administration Charge

7.1. Where a User has failed to settle a DUoS invoice or notify WPD of a bona fide dispute, in accordance with the DCUSA an account review charge may be made in accordance with the Late Payment of Commercial Debts regulations 2002 to cover the associated credit control, administration, invoicing and collection costs. This is in addition to the interest charge that will be made in accordance with clause 23.3 of the Distribution Connection and Use of System Agreement (DCUSA).

8. Charges for electrical plant provided ancillary to the grant of Use of System

None

9. Glossary of Terms

9.1. The following definitions are included to aid understanding:

Term	Definition
Balancing and Settlement Code (BSC)	The Balancing and Settlement Code contains the governance arrangements for electricity balancing and settlement in Great Britain. An over view document is available from "www.elexon.co.uk/ELEXON Documents/trading_arrangements.pdf".
CDCM	The Common Distribution Charging Methodology used for calculating charges to Designated Properties as required by standard licence condition 13A of the Electricity Distribution Licence.
Customer	A person to whom a User proposers 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 though 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).
CVA	Central volume allocation in accordance with the BSC.
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.
Distributed Generator	A generator directly connected or embedded within the Distribution System.
Distribution Connection and Use of System Agreement (DCUSA)	The Distribution Connection and Use of System Agreement (DCUSA) is a multi-party contract between the licensed electricity distributors, suppliers and generators of Great Britain. It is a requirement that all licensed electricity distributors and suppliers become parties to the DCUSA.
Electricity Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Electricity Act 1989.
Distribution Network Operator (DNO)	An Electricity Distributor who operates one of the fourteen Distribution Services Areas and in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
Distribution Services Area	The area specified by the Authority that a DNO as Distribution Services Provider will operate.

Term	Definition
Distribution Services Provider	An Electricity Distributor in whose Electricity Distribution Licence the requirements of Section B of the standard conditions of that licence have effect.
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 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.
EDCM	The EHV Distribution Charging Methodology used for calculating charges to Designated EHV Properties as required by standard licence condition 13B of the Electricity Distribution Licence..
Electricity Distributor	Any person who is authorised by an Electricity Distribution Licence to distribute electricity.
Embedded LDNO	This refers to an LDNO operating a distribution network which is embedded within another distribution network.
Embedded Network	An electricity Distribution System operated by an LDNO and embedded within another distribution network.
Entry Point	A boundary point at which electricity is exported onto a Distribution System to a connected installation or to 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) (the Authority)	As established by the Utilities Act.
Grid Supply Point	A metered connection between the National Grid Electricity Transmission (NGET) system and The licensee's Distribution System at which electricity flows to or from the Distribution System.

Term	Definition
GSP Group	Grid Supply Point Group; a distinct electrical system, that is supplied from one or more Grid Supply Points 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
Host DNO	A distribution network operator that is responsible for a Distribution Services Area as defined in Standard conditions of the Electricity Distribution Licence
Intermediate LDNO	An embedded licenced distribution network operator that is responsible for a Distribution System between a Host DNO and another Embedded Distribution System.
Invalid Settlement Combination	A Settlement combination that is not recognised as a valid combination in Market Domain Data. http://mddonline.elexon.co.uk/default.aspx
kVA	Kilovolt amperes
kVArh	Kilovolt ampere reactive hour
kW	Kilowatt
kWh	Kilowatt hour (equivalent to one “unit” of electricity)
LDNO	Licensed Distribution Network Operator.
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.
Line Loss Factor (LLF)	The factor which is used in Settlement to adjust the Metering System volumes to take account of losses on the Distribution System.
Low Voltage (LV)	Nominal voltages below 1kV
Market Domain Data (MDD)	Market Domain Data is a central repository of reference data used by all Users involved in Settlement. It is essential to the operation of Supplier Volume Allocation (SVA) Trading Arrangements.
Maximum Export Capacity (MEC)	The Maximum Export Capacity 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 Maximum Import Capacity 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 which indicates how Consumption is measured i.e. Non Half Hourly Metering Equipment (equivalent to Measurement Class "A") Non Half Hourly Unmetered Supplies (equivalent to Measurement Class "B") Half Hourly Metering Equipment at above 100kW Premises (equivalent to Measurement Class "C") Half Hourly Unmetered Supplies (equivalent to Measurement Class "D") Half Hourly Metering Equipment at below 100kW Premises (equivalent to Measurement Class "E").
Metering Point	The point at which electricity 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 Grid Supply Points are not 'Metering Points')
Metering System	Particular commissioned metering equipment installed for the purposes of measuring the quantities of Exports and Imports at the Boundary Point.
MPAN	Metering Point Administration Number. A number relating to a Metering Point under the MRA.
MRA	The Master Registration Agreement.
MTC	Meter Timeswitch Codes (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.
Nested LDNO	A distribution system operator that is responsible for a Nested Network.
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→intermediate LDNO→nested LDNO→Customer).
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 Balancing and Settlement Code
Settlement Class (SC)	The combination of Profile Class, Line Loss Factor Class, Time Pattern Regime and Standard Settlement Configuration, by Supplier within GSP Group and used for Settlement.

Term	Definition
Standard Settlement Configuration (SSC)	A standard metering configuration relating to a specific combination of TPRs.
Supercustomer	The method of billing Users for Use of System on an aggregated basis, grouping consumption and standing charges for all similar NHH metered Customers together.
Supercustomer DUoS Report	A report of profiled data by Settlement Class providing counts of MPANs and units consumed.
Supplier	An organisation with a Supply License which can register itself as supplying electricity to a Metering Point.
Supplier Volume Allocation (SVA)	As defined in the Balancing and Settlement Code.
Supplier Volume Allocation Agent (SVAA)	The agency which uses aggregated consumption data from the Data Aggregator to calculate Supplier purchases by Settlement Class for each Settlement day, and then passes this information to the relevant distributors and Suppliers across the national data transfer network.
Time Pattern Regime (TPR)	The pattern of switching behaviour though time that one or more meter registers follow.
Use of System Charges	Charges for demand and generation Customers which are connected to and utilising the distribution network.
User/s	Someone who has a use of system agreement with the DNO e.g. A Supplier, Generator or LDNO.

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

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LV/HV Charges										
	Open LLFCs	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess Capacity charge (p/kVA)	Closed LLFCs
Domestic Unrestricted	1	1	2.183			4.82				2, 3
Domestic Two Rate	4	2	2.510	0.104		4.82				5, 6, 30
Domestic Off Peak (related MPAN)	34	2	0.201							35, 36
Small Non Domestic Unrestricted	7	3	1.723			6.25				8, 9, 13, 14, 15, 46, 47, 49, 107, 108, 109
Small Non Domestic Two Rate	10	4	2.057	0.089		6.25				11, 12, 110, 111, 112
Small Non Domestic Off Peak (related MPAN)	40	4	0.313							41, 42
LV Medium Non-Domestic	21	5-8	1.976	0.083		37.02				20, 22, 25, 26, 27
LV Sub Medium Non-Domestic	19	5-8	1.774	0.066		24.13				
LV HH Metered	127, 129		8.705	0.627	0.056	10.42	3.22	0.332	3.22	121, 124, 132
LV Sub HH Metered	128		7.452	0.481	0.034	10.42	4.21	0.267	4.21	
HV HH Metered	365, 367		5.298	0.292	0.017	104.75	4.95	0.171	4.95	130
NHH UMS category A	95	8	1.924							
NHH UMS category B	96	1	2.369							
NHH UMS category C	97	1	3.931							
NHH UMS category D	98	1	1.669							

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LV/HV Charges										
	Open LLFCs	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess Capacity charge (p/kVA)	Closed LLFCs
LV UMS (Pseudo HH Metered)	99		32.872	1.377	0.728					
LV Generation NHH	625	8	-0.702							
LV Sub Generation NHH	570	8	-0.592							
LV Generation Intermittent	571		-0.702					0.279		
LV Generation Non-Intermittent	573		-5.482	-0.563	-0.060			0.279		
LV Sub Generation Intermittent	572		-0.592					0.251		
LV Sub Generation Non-Intermittent	574		-4.661	-0.471	-0.047			0.251		
HV Generation Intermittent	575		-0.387			17.98		0.206		
HV Generation Non-Intermittent	577		-3.135	-0.298	-0.022	17.98		0.206		

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

Note: The list of MPANs / MSIDs is for guidance only and may not be complete; the DNO reserves the right to apply the listed charges to any other MPANs / MSIDs associated with the site.

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final EDCM Charges												
Import LLFC - Unique Identifier	Export LLFC - Unique Identifier	Import MPAN/s / MSIDs	Export MPANs / MSIDs	Name	Import super-red unit rate (p/kWh)	Import fixed charge (p/day)	Import capacity rate (p/kVA/day)	Import exceeded capacity rate (p/kVA/day)	Export super-red unit rate (p/kWh)	Export fixed charge p/day	Export capacity rate (p/kVA/day)	Export exceeded capacity rate (p/kVA/day)
0234		0234		Cellarhead Whitfield Interconnector			3.08	3.08				
702	703	1423197100003	1430000005417	Tyseley Waste		152.65	1.48	1.48				
704		1423674500009		Takao Europe		243.71	1.83	1.83				
705	750	TBC	TBC	Four Ashes Incinerator		105.22	2.58	2.58		534.45	0.05	0.05
706	751	TBC	TBC	Witches Farm Solar	0.790	11.84	1.22	1.22		418.21	0.05	0.05
707	708	1430000001342, 1430000001351	1430000001360	Uni of Birmingham		3,481.42	3.35	3.35				
709		1426644200003		Severn Trent Water (Wyelands)		2,338.64	1.57	1.57				
710	732	1425993500002	1424993500000	Wolverhampton Waste Services		231.97	1.46	1.46				
711	733	1421696500001, 1430000000906	1430000000915, 1430000000924	Stoke CHP	1.570	281.60	2.02	2.02				
712		1428483000001, 1429586500003		WBB Minerals	1.425	359.01	2.74	2.74				
713		1422804000005		Cauldon Cement	1.506	269.04	3.75	3.75				
714		1412791203000		Abson Gas Compressor Station		32.21	1.20	1.20				

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final EDCM Charges

Import LLFC - Unique Identifier	Export LLFC - Unique Identifier	Import MPAN/s / MSIDs	Export MPANs / MSIDs	Name	Import super-red unit rate (p/kWh)	Import fixed charge (p/day)	Import capacity rate (p/kVA/day)	Import exceeded capacity rate (p/kVA/day)	Export super-red unit rate (p/kWh)	Export fixed charge p/day	Export capacity rate (p/kVA/day)	Export exceeded capacity rate (p/kVA/day)
715		1422108000000, 1421108000009		Ervin Amasteel		2,108.81	3.21	3.21				
716	734	1426793500003	1425793500001	Hanford Waste Services	1.872	23.56	1.44	1.44				
717	735	1422664500000, 1425861000001	1430000033051, 1430000033060	NR Kidsgrove	1.384	9,038.51	3.12	3.12				
718	736	1421664500008, 1426342000002	1430000033103	NR Stafford		3,057.62	5.04	5.04				
719	741	1423124100000, 1428564500005	1430000033070, 1430000044090	NR Washwood Heath		3,310.61	2.36	2.36				
720	737	1420286500000	1430000033121	NR Winson Green		1,498.47	5.71	5.71				
721	738	1423566000006	1430000033089	NR Smethwick		11,489.61	1.61	1.61				
722	739	1424136000004	1430000033112	NR Willenhall		2,251.31	1.86	1.86				
723	748	1460002083346	1460002083355	Northwick			2.03	2.03	-1.282		0.05	0.05
724		1430000027786, 1430000027795 1430000027800 1430000027810 1430000027829 1430000027838 1430000027847 1430000027856		Inco Alloys	1.494	445.87	5.09	5.09				
725		1460002258662		Swancote		19.60	1.61	1.61		416.55	0.05	0.05
726	752	1460002256025	1460002256034	Spring Hill Solar generation			2.09	2.09			0.05	0.05

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final EDCM Charges												
Import LLFC - Unique Identifier	**Export LLFC - Unique Identifier**	**Import MPAN/s / MSIDs**	**Export MPANs / MSIDs**	**Name**	**Import super-red unit rate (p/kWh)**	**Import fixed charge (p/day)**	**Import capacity rate (p/kVA/day)**	**Import exceeded capacity rate (p/kVA/day)**	**Export super-red unit rate (p/kWh)**	**Export fixed charge p/day**	**Export capacity rate (p/kVA/day)**	**Export exceeded capacity rate (p/kVA/day)**
727		1460001869731, 1460001869750		NG Wormington Gas Compressor	1.436	2,129.27	2.21	2.21				
728	753	1470000086156	1470000086147	Greenfrog STOR generation			2.09	2.09	-1.282		0.05	0.05
729	754	TBC	TBC	Union Road		4.14	1.22	1.22		1,447.52	0.05	0.05
730	731	1423464500000, 1429264500000	1422464500009, 1421464500007	Quatt	0.676	94.32	3.75	3.75				
740	746	1425886500002	1426886500004	Knypersley	2.068	0.28	5.12	5.12				
742		1429414500005		Simplex	1.461	111.47	4.89	4.89				
744		1428882200005		Star Aluminium			2.37	2.37				
747		1422949000004		Goodyear	1.502	1,478.77	4.06	4.06				
800	7070	N/A	7070	Heartlands Power Ltd / Fort Dunlop		6.16	1.65	1.65				
2226		2226		Cellarhead Barlaston (Meaford) Interconnector			2.95	2.95				
N/A	745		1430000021836	Redditch Gas Turbine								

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

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LV/HV Tariffs									
NHH Preserved Charges/Additional LLFC Classes									
	Closed LLFCs	**PCs**	**Unit rate 1 p/kWh**	**Unit rate 2 p/kWh**	**Unit rate 3 p/kWh**	**Fixed charge p/MPAN/day**			
HV Medium Non-Domestic	322, 323	5-8	1.005	0.020		349.93			

HH Preserved Charges/Additional LLFC Classes									
	Closed LLFCs	**PCs**	**Unit rate 1 p/kWh**	**Unit rate 2 p/kWh**	**Unit rate 3 p/kWh**	**Fixed charge p/MPAN/day**	**Capacity charge p/kVA/day**	**Reactive power charge p/kVArh**	**Excess Capacity charge (p/kVA)**
									.

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

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO LV: Domestic Unrestricted	200	1	1.509			3.33			
LDNO LV: Domestic Two Rate	201	2	1.735	0.072		3.33			
LDNO LV: Domestic Off Peak (related MPAN)	202	2	0.139						
LDNO LV: Small Non Domestic Unrestricted	203	3	1.191			4.32			
LDNO LV: Small Non Domestic Two Rate	204	4	1.422	0.062		4.32			
LDNO LV: Small Non Domestic Off Peak (related MPAN)	205	4	0.216						
LDNO LV: LV Medium Non-Domestic	206	5-8	1.366	0.057		25.59			
LDNO LV: LV HH Metered	207	0	6.017	0.433	0.039	7.20	2.23	0.229	2.23
LDNO LV: NHH UMS category A	252	8	1.330						
LDNO LV: NHH UMS category B	208	1	1.637						
LDNO LV: NHH UMS category C	253	1	2.717						
LDNO LV: NHH UMS category D	254	1	1.154						
LDNO LV: LV UMS (Pseudo HH Metered)	209	0	22.720	0.952	0.503				

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO LV: LV Generation NHH	210	8	-0.702						
LDNO LV: LV Generation Intermittent	211	0	-0.702					0.279	
LDNO LV: LV Generation Non-Intermittent	212	0	-5.482	-0.563	-0.060			0.279	
LDNO HV: Domestic Unrestricted	213	1	1.090			2.41			
LDNO HV: Domestic Two Rate	214	2	1.253	0.052		2.41			
LDNO HV: Domestic Off Peak (related MPAN)	215	2	0.100						
LDNO HV: Small Non Domestic Unrestricted	216	3	0.860			3.12			
LDNO HV: Small Non Domestic Two Rate	217	4	1.027	0.044		3.12			
LDNO HV: Small Non Domestic Off Peak (related MPAN)	218	4	0.156						
LDNO HV: LV Medium Non-Domestic	219	5-8	0.986	0.041		18.48			
LDNO HV: LV HH Metered	220	0	4.346	0.313	0.028	5.20	1.61	0.166	1.61
LDNO HV: LV Sub HH Metered	221	0	5.557	0.359	0.025	7.77	3.14	0.199	3.14
LDNO HV: HV HH Metered	222	0	4.491	0.248	0.014	88.80	4.20	0.145	4.20
LDNO HV: NHH UMS category A	249	8	0.961						

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs

	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO HV: NHH UMS category B	223	1	1.183						
LDNO HV: NHH UMS category C	250	1	1.962						
LDNO HV: NHH UMS category D	251	1	0.833						
LDNO HV: LV UMS (Pseudo HH Metered)	224	0	16.410	0.687	0.363				
LDNO HV: LV Generation NHH	225	8	-0.702						
LDNO HV: LV Sub Generation NHH	226	8	-0.592						
LDNO HV: LV Generation Intermittent	227	0	-0.702					0.279	
LDNO HV: LV Generation Non-Intermittent	228	0	-5.482	-0.563	-0.060			0.279	
LDNO HV: LV Sub Generation Intermittent	229	0	-0.592					0.251	
LDNO HV: LV Sub Generation Non-Intermittent	230	0	-4.661	-0.471	-0.047			0.251	
LDNO HV: HV Generation Intermittent	231	0	-0.387					0.206	
LDNO HV: HV Generation Non-Intermittent	232	0	-3.135	-0.298	-0.022			0.206	
LDNO HVplus: Domestic Unrestricted		1	0.919			2.03			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO HVplus: Domestic Two Rate		2	1.057	0.044		2.03			
LDNO HVplus: Domestic Off Peak (related MPAN)		2	0.085						
LDNO HVplus: Small Non Domestic Unrestricted		3	0.726			2.63			
LDNO HVplus: Small Non Domestic Two Rate		4	0.866	0.037		2.63			
LDNO HVplus: Small Non Domestic Off Peak (related MPAN)		4	0.132						
LDNO HVplus: LV Medium Non-Domestic		5-8	0.832	0.035		15.59			
LDNO HVplus: LV Sub Medium Non-Domestic		5-8	1.116	0.042		15.18			
LDNO HVplus: HV Medium Non-Domestic		5-8	0.719	0.014		250.20			
LDNO HVplus: LV HH Metered		0	3.665	0.264	0.024	4.39	1.36	0.140	1.36
LDNO HVplus: LV Sub HH Metered		0	4.687	0.303	0.021	6.55	2.65	0.168	2.65
LDNO HVplus: HV HH Metered		0	3.788	0.209	0.012	74.90	3.54	0.122	3.54
LDNO HVplus: NHH UMS category A		8	0.810						
LDNO HVplus: NHH UMS category B		1	0.998						
LDNO HVplus: NHH UMS category C		1	1.655						

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO HVplus: NHH UMS category D		1	0.703						
LDNO HVplus: LV UMS (Pseudo HH Metered)		0	13.841	0.580	0.307				
LDNO HVplus: LV Generation NHH		8	-0.442						
LDNO HVplus: LV Sub Generation NHH		8	-0.423						
LDNO HVplus: LV Generation Intermittent		0	-0.442					0.175	
LDNO HVplus: LV Generation Non-Intermittent		0	-3.448	-0.354	-0.038			0.175	
LDNO HVplus: LV Sub Generation Intermittent		0	-0.423					0.179	
LDNO HVplus: LV Sub Generation Non-Intermittent		0	-3.333	-0.337	-0.034			0.179	
LDNO HVplus: HV Generation Intermittent		0	-0.387			17.98		0.206	
LDNO HVplus: HV Generation Non-Intermittent		0	-3.135	-0.298	-0.022	17.98		0.206	
LDNO EHV: Domestic Unrestricted	233	1	0.743			1.64			
LDNO EHV: Domestic Two Rate	234	2	0.855	0.035		1.64			
LDNO EHV: Domestic Off Peak (related MPAN)	235	2	0.068						
LDNO EHV: Small Non Domestic Unrestricted	236	3	0.587			2.13			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO EHV: Small Non Domestic Two Rate	237	4	0.700	0.030		2.13			
LDNO EHV: Small Non Domestic Off Peak (related MPAN)	238	4	0.107						
LDNO EHV: LV Medium Non-Domestic	239	5-8	0.673	0.028		12.60			
LDNO EHV: LV Sub Medium Non-Domestic	244	5-8	0.902	0.034		12.27			
LDNO EHV: HV Medium Non-Domestic		5-8	0.581	0.012		202.30			
LDNO EHV: LV HH Metered	240	0	2.964	0.213	0.019	3.55	1.10	0.113	1.10
LDNO EHV: LV Sub HH Metered	241	0	3.790	0.245	0.017	5.30	2.14	0.136	2.14
LDNO EHV: HV HH Metered	242	0	3.063	0.169	0.010	60.56	2.86	0.099	2.86
LDNO EHV: NHH UMS category A	245	8	0.655						
LDNO EHV: NHH UMS category B	243	1	0.807						
LDNO EHV: NHH UMS category C	246	1	1.338						
LDNO EHV: NHH UMS category D	247	1	0.568						
LDNO EHV: LV UMS (Pseudo HH Metered)	248	0	11.191	0.469	0.248				
LDNO EHV: LV Generation NHH		8	-0.357						

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO EHV: LV Sub Generation NHH		8	-0.342						
LDNO EHV: LV Generation Intermittent		0	-0.357					0.142	
LDNO EHV: LV Generation Non-Intermittent		0	-2.788	-0.286	-0.031			0.142	
LDNO EHV: LV Sub Generation Intermittent		0	-0.342					0.145	
LDNO EHV: LV Sub Generation Non-Intermittent		0	-2.695	-0.272	-0.027			0.145	
LDNO EHV: HV Generation Intermittent		0	-0.313			14.54		0.167	
LDNO EHV: HV Generation Non-Intermittent		0	-2.535	-0.241	-0.018	14.54		0.167	
LDNO 132kV/EHV: Domestic Unrestricted		1	0.712			1.57			
LDNO 132kV/EHV: Domestic Two Rate		2	0.819	0.034		1.57			
LDNO 132kV/EHV: Domestic Off Peak (related MPAN)		2	0.066						
LDNO 132kV/EHV: Small Non Domestic Unrestricted		3	0.562			2.04			
LDNO 132kV/EHV: Small Non Domestic Two Rate		4	0.671	0.029		2.04			
LDNO 132kV/EHV: Small Non Domestic Off Peak (related MPAN)		4	0.102						
LDNO 132kV/EHV: LV Medium Non-Domestic		5-8	0.644	0.027		12.07			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO 132kV/EHV: LV Sub Medium Non-Domestic		5-8	0.864	0.032		11.76			
LDNO 132kV/EHV: HV Medium Non-Domestic		5-8	0.557	0.011		193.80			
LDNO 132kV/EHV: LV HH Metered		0	2.839	0.204	0.018	3.40	1.05	0.108	1.05
LDNO 132kV/EHV: LV Sub HH Metered		0	3.631	0.234	0.017	5.08	2.05	0.130	2.05
LDNO 132kV/EHV: HV HH Metered		0	2.934	0.162	0.009	58.01	2.74	0.095	2.74
LDNO 132kV/EHV: NHH UMS category A		8	0.628						
LDNO 132kV/EHV: NHH UMS category B		1	0.773						
LDNO 132kV/EHV: NHH UMS category C		1	1.282						
LDNO 132kV/EHV: NHH UMS category D		1	0.544						
LDNO 132kV/EHV: LV UMS (Pseudo HH Metered)		0	10.721	0.449	0.237				
LDNO 132kV/EHV: LV Generation NHH		8	-0.342						
LDNO 132kV/EHV: LV Sub Generation NHH		8	-0.328						
LDNO 132kV/EHV: LV Generation Intermittent		0	-0.342					0.136	
LDNO 132kV/EHV: LV Generation Non-Intermittent		0	-2.671	-0.274	-0.029			0.136	

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO 132kV/EHV: LV Sub Generation Intermittent		0	-0.328					0.139	
LDNO 132kV/EHV: LV Sub Generation Non-Intermittent		0	-2.581	-0.261	-0.026			0.139	
LDNO 132kV/EHV: HV Generation Intermittent		0	-0.300			13.93		0.160	
LDNO 132kV/EHV: HV Generation Non-Intermittent		0	-2.428	-0.231	-0.017	13.93		0.160	
LDNO 132kV: Domestic Unrestricted		1	0.471			1.04			
LDNO 132kV: Domestic Two Rate		2	0.542	0.022		1.04			
LDNO 132kV: Domestic Off Peak (related MPAN)		2	0.043						
LDNO 132kV: Small Non Domestic Unrestricted		3	0.372			1.35			
LDNO 132kV: Small Non Domestic Two Rate		4	0.444	0.019		1.35			
LDNO 132kV: Small Non Domestic Off Peak (related MPAN)		4	0.068						
LDNO 132kV: LV Medium Non-Domestic		5-8	0.426	0.018		7.99			
LDNO 132kV: LV Sub Medium Non-Domestic		5-8	0.572	0.021		7.78			
LDNO 132kV: HV Medium Non-Domestic		5-8	0.368	0.007		128.24			
LDNO 132kV: LV HH Metered		0	1.879	0.135	0.012	2.25	0.69	0.072	0.69

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO 132kV: LV Sub HH Metered		0	2.402	0.155	0.011	3.36	1.36	0.086	1.36
LDNO 132kV: HV HH Metered		0	1.942	0.107	0.006	38.39	1.81	0.063	1.81
LDNO 132kV: NHH UMS category A		8	0.415						
LDNO 132kV: NHH UMS category B		1	0.511						
LDNO 132kV: NHH UMS category C		1	0.848						
LDNO 132kV: NHH UMS category D		1	0.360						
LDNO 132kV: LV UMS (Pseudo HH Metered)		0	7.094	0.297	0.157				
LDNO 132kV: LV Generation NHH		8	-0.226						
LDNO 132kV: LV Sub Generation NHH		8	-0.217						
LDNO 132kV: LV Generation Intermittent		0	-0.226					0.090	
LDNO 132kV: LV Generation Non-Intermittent		0	-1.767	-0.181	-0.019			0.090	
LDNO 132kV: LV Sub Generation Intermittent		0	-0.217					0.092	
LDNO 132kV: LV Sub Generation Non-Intermittent		0	-1.708	-0.173	-0.017			0.092	
LDNO 132kV: HV Generation Intermittent		0	-0.198			9.22		0.106	

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO 132kV: HV Generation Non-Intermittent		0	-1.607	-0.153	-0.011	9.22		0.106	
LDNO 0000: Domestic Unrestricted		1	0.099			0.22			
LDNO 0000: Domestic Two Rate		2	0.114	0.005		0.22			
LDNO 0000: Domestic Off Peak (related MPAN)		2	0.009						
LDNO 0000: Small Non Domestic Unrestricted		3	0.078			0.28			
LDNO 0000: Small Non Domestic Two Rate		4	0.093	0.004		0.28			
LDNO 0000: Small Non Domestic Off Peak (related MPAN)		4	0.014						
LDNO 0000: LV Medium Non-Domestic		5-8	0.089	0.004		1.67			
LDNO 0000: LV Sub Medium Non-Domestic		5-8	0.120	0.004		1.63			
LDNO 0000: HV Medium Non-Domestic		5-8	0.077	0.002		26.88			
LDNO 0000: LV HH Metered		0	0.394	0.028	0.003	0.47	0.15	0.015	0.15
LDNO 0000: LV Sub HH Metered		0	0.503	0.032	0.002	0.70	0.28	0.018	0.28
LDNO 0000: HV HH Metered		0	0.407	0.022	0.001	8.04	0.38	0.013	0.38
LDNO 0000: NHH UMS category A		8	0.087						

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LDNO Tariffs									
	Unique billing identifier	PCs	Unit rate 1 p/kWh	Unit rate 2 p/kWh	Unit rate 3 p/kWh	Fixed charge p/MPAN/day	Capacity charge p/kVA/day	Reactive power charge p/kVArh	Excess capacity charge (p/kVA)
LDNO 0000: NHH UMS category B		1	0.107						
LDNO 0000: NHH UMS category C		1	0.178						
LDNO 0000: NHH UMS category D		1	0.075						
LDNO 0000: LV UMS (Pseudo HH Metered)		0	1.487	0.062	0.033				
LDNO 0000: LV Generation NHH		8	-0.047						
LDNO 0000: LV Sub Generation NHH		8	-0.045						
LDNO 0000: LV Generation Intermittent		0	-0.047					0.019	
LDNO 0000: LV Generation Non-Intermittent		0	-0.370	-0.038	-0.004			0.019	
LDNO 0000: LV Sub Generation Intermittent		0	-0.045					0.019	
LDNO 0000: LV Sub Generation Non-Intermittent		0	-0.358	-0.036	-0.004			0.019	
LDNO 0000: HV Generation Intermittent		0	-0.042			1.93		0.022	
LDNO 0000: HV Generation Non-Intermittent		0	-0.337	-0.032	-0.002	1.93		0.022	

Annex 5 – Schedule of Line Loss Factors

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final LLF Time Periods				
Time periods	**Period 1**	**Period 2**	**Period 3**	**Period 4**
	Peak	**Winter**	**Night**	**Other**
Monday to Friday Mar to Oct			00:30 – 07:30	07:30 – 00:30
Monday to Friday Nov to Feb	16:00 – 19:00	07:30 – 16:00 19:00 – 20:00	00:30 – 07:30	20:00 – 00:30
Saturday and Sunday All Year			00:30 – 07:30	07:30 – 00:30
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	1.077	1.069	1.052	1.060	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 20, 21, 22, 24, 25, 26, 27, 30, 34, 35, 36, 40, 41, 42, 46, 47, 49, 85, 86, 87, 88, 95, 96, 97, 98, 99, 107, 108, 109, 110, 111, 112, 121, 124, 127, 129, 132, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 326, 571, 573, 625, 626, Fort Dunlop LV Import (7177).
Low Voltage Substation	1.077	1.069	1.052	1.060	19, 128, 221, 226, 229, 230, 570, 572, 574
High Voltage Network	1.044	1.041	1.031	1.035	23, 130, 213, 214, 215, 216, 217, 218, 219, 220, 222, 223, 224, 225, 227, 228, 231, 232, 322, 323, 365, 367, 575, 577, Havannah Mills (0039), Stanner Interconector (2818).
High Voltage Substation	1.027	1.026	1.021	1.023	366, 576, 578, 724, 727, 730, 731, 740, 742, 743, 744, 745, 746, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822
33kV Generic	1.006	1.006	1.004	1.005	705, 725, 729, 749, 750, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784
66kV Generic	1.006	1.006	1.004	1.005	706, 723, 726, 728, 751, 752, 753
132kV at GSP Generic	1.000	1.000	1.000	1.000	Ironbridge St load (4003), Rugeley St load (4018)

EHV Site Specific LLFs					
Demand					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Tyseley Waste Import	1.001	1.001	1.001	1.001	702
Takao Europe Import	1.024	1.017	1.013	1.017	704
Four Ashes Incinerator Import	1.006	1.006	1.004	1.005	705
Witches Farm Solar Import	1.006	1.006	1.004	1.005	706
Uni of Birmingham Import	1.003	1.003	1.001	1.002	707
South Staffs Water Import	1.101	1.075	1.048	1.051	709
Wolverhampton WS Import	1.001	1.001	1.000	1.000	710
Stoke CHP Import	1.001	1.003	1.002	1.002	711
WBB Minerals Import	1.027	1.029	1.015	1.023	712
Cauldon Cement Import	1.023	1.024	1.027	1.028	713
Abson Gas Compressor Station Import	1.017	1.018	1.015	1.019	714
Ervin Amasteel Import	1.002	1.002	1.002	1.002	715
Hanford Waste Services Import	1.004	1.007	1.008	1.008	716
NR Kidsgrove Import	1.015	1.014	1.008	1.012	717
NR Stafford Import	1.012	1.011	1.007	1.010	718
NR Nechells/Washwood Heath Import	1.002	1.002	1.002	1.002	719
NR Winson Green Import	1.002	1.002	1.001	1.001	720
NR Smethwick Import	1.000	1.000	1.000	1.000	721
NR Willenhall Import	1.001	1.001	1.001	1.001	722
Northwick Import	1.006	1.006	1.004	1.005	723
Inco Alloys Import	1.027	1.026	1.021	1.023	724
Swancote Energy Import	1.006	1.006	1.004	1.005	725
Springhill Solar Park Import	1.006	1.006	1.004	1.005	726
NG Gas Wormington	1.027	1.026	1.021	1.023	727
Greenfrog STOR Import	1.006	1.006	1.004	1.005	728
Union Road / EMR Oldbury (Import)	1.006	1.006	1.004	1.005	729
Quatt Import	1.027	1.026	1.021	1.023	730
Knypersley Import	1.027	1.026	1.021	1.023	740
Simplex Import	1.027	1.026	1.021	1.023	742
Star Aluminium Import	1.027	1.026	1.021	1.023	744
Goodyear	1.006	1.006	1.006	1.006	747
Fort Dunlop LV Import	1.077	1.069	1.052	1.060	7177
Ironbridge St load	1.000	1.000	1.000	1.000	4003
Rugeley St load	1.000	1.000	1.000	1.000	4018

EHV Site Specific LLFs					
Generation					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
Tyseley Waste Export	1.001	1.001	1.000	1.000	703
Uni of Birmingham Export	1.000	1.000	1.000	1.000	708
Quatt Export	1.027	1.026	1.021	1.023	731
Wolverhampton WS Export	1.000	1.000	1.000	1.000	732
Stoke CHP Export	0.998	0.998	0.997	0.997	733
Hanford Waste Services Export	0.996	0.996	0.993	0.993	734
NR Kidsgrove Export	1.003	1.003	1.002	1.002	735
NR Stafford Export	1.001	1.001	1.001	1.001	736

EHV Site Specific LLFs					
Generation					
Site	**Period 1**	**Period 2**	**Period 3**	**Period 4**	**Associated LLFC**
NR Winson Green Export	1.001	1.001	1.000	1.001	737
NR Smethwick Export	1.000	1.000	1.000	1.000	738
NR Willenhall Export	1.000	1.000	1.000	1.000	739
NR Nechells/Washwood Heath Export	1.000	1.000	1.000	1.000	741
Redditch Gas Turbine Export	1.027	1.026	1.021	1.023	745
Knypersley Export	1.027	1.026	1.021	1.023	746
Northwick Export	1.072	1.072	1.072	1.072	748
Swancote Energy Export	1.006	1.006	1.004	1.005	749
Four Ashes Incinerator Export	1.006	1.006	1.004	1.005	750
Witches Farm Solar Export	1.006	1.006	1.004	1.005	751
Springhill Solar Park Export	1.006	1.006	1.004	1.005	752
Greenfrog STOR Export	1.006	1.006	1.004	1.005	753
Union Road / EMR Oldbury (Export)	1.006	1.006	1.004	1.005	754
Heartlands	1.027	1.026	1.021	1.023	800
Havannah Mills / Havannah Mills Switching Station (export to ENW)	1.044	1.041	1.031	1.035	0039
Cellarhead - Burlaston interconnector	1.005	1.005	1.002	1.003	2226
Stanner interconnector (export to WPD)	1.044	1.041	1.031	1.035	2818
Heartlands Power Ltd / Fort Dunlop	1.000	1.000	1.000	1.000	7070

Annex 6 - Un-scaled [nodal /network group] costs

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Bishops Wood 132kV	Bishops Wood 132kV	1.668			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66__	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66__	0.000			
Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__	Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__	0.000			
Bishops Wood 132kV_Stourport 132 33__	Bishops Wood 132kV_Stourport 132 33__	0.000			
Bishops Wood 132kV_Ludlow 132 33__	Bishops Wood 132kV_Ludlow 132 33__	1.790			
HYB:[Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66__] & [Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__]->Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Kenswick 66 11 (T2 & T1 OS)	HYB:[Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66__] & [Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__]->Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Kenswick 66 11 (T2 & T1 OS)	0.000			
HYB:[Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__] & [Bishops Wood 132kV_Stourport 132 33__]->Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Stourport 66 11 (T3 T4 & T5)	HYB:[Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66__] & [Bishops Wood 132kV_Stourport 132 33__]->Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Stourport 66 11 (T3 T4 & T5)	0.000			
Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Stourport 66 11 (T3 T4 & T5)	Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Stourport 66 11 (T3 T4 & T5)	0.000			
Bishops Wood 132kV_Kidderminster 132 11 (GT1 GT2 & T3 OS)__	Bishops Wood 132kV_Kidderminster 132 11 (GT1 GT2 & T3 OS)__	0.000			
Bishops Wood 132kV_Ludlow 132 33_Bishops Castle 33 11	Bishops Wood 132kV_Ludlow 132 33_Bishops Castle 33 11	0.000			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Bodenham 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Bodenham 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Kington 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Kington 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Bromyard 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Bromyard 66 11	0.000			
Bishops Wood 132kV_Ludlow 132 33_Cleobury Mortimer 33 11	Bishops Wood 132kV_Ludlow 132 33_Cleobury Mortimer 33 11	0.000			
Bishops Wood 132kV_Ludlow 132 33_Craven Arms 33 11	Bishops Wood 132kV_Ludlow 132 33_Craven Arms 33 11	0.000			
Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Droitwich 66 11 (T1 & T2)	Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Droitwich 66 11 (T1 & T2)	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Dymock 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Dymock 66 11	0.000			
Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Kenswick 66 11 (T2 & T1 OS)	Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Kenswick 66 11 (T2 & T1 OS)	0.000			
Bishops Wood 132kV_Stourport 132 33_Kinver 33 11 (T1)	Bishops Wood 132kV_Stourport 132 33_Kinver 33 11 (T1)	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Presteigne 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Presteigne 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Knighton 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Knighton 66 11	0.000			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Ledbury 66 11 (T1)	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Ledbury 66 11 (T1)	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Leominster 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Leominster 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Lower Chadnor 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Lower Chadnor 66 11	0.000			
Bishops Wood 132kV_Ludlow 132 33_Ludlow 33 11	Bishops Wood 132kV_Ludlow 132 33_Ludlow 33 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Madley 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Madley 66 11	0.000			
Bishops Wood 132kV_Malvern 132 11__	Bishops Wood 132kV_Malvern 132 11__	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Ross 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Ross 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Newent 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Newent 66 11	0.000			
Bishops Wood 132kV_Warndon 132 11__	Bishops Wood 132kV_Warndon 132 11__	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Peterchurch 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Peterchurch 66 11	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Pontrilas 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Pontrilas 66 11	0.000			
Bishops Wood 132kV_Ludlow 132 33_Priest Weston 33 11	Bishops Wood 132kV_Ludlow 132 33_Priest Weston 33 11	0.000			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Bishops Wood 132kV_Stourport 132 33_Quatt 33 11 (T1)	Bishops Wood 132kV_Stourport 132 33_Quatt 33 11 (T1)	0.000			
Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Redditch North 66 11 (T3)	Bishops Wood 132kV_Stourport 132 66 & Upton Warren 132 66_Redditch North 66 11 (T3)	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_St. Weonards 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_St. Weonards 66 11	0.000			
Bishops Wood 132kV_Worcester 132 11__	Bishops Wood 132kV_Worcester 132 11__	0.000			
Bishops Wood 132kV_Ludlow 132 33_Stockton 33 11	Bishops Wood 132kV_Ludlow 132 33_Stockton 33 11	0.000			
Bishops Wood 132kV_Ludlow 132 33_Tenbury 33 11	Bishops Wood 132kV_Ludlow 132 33_Tenbury 33 11	0.000			
Bishops Wood 132kV_Timberdine 132 11__	Bishops Wood 132kV_Timberdine 132 11__	0.000			
Bishops Wood 132kV_Upton Warren 132 11 (GT4 T1 & T2 OS)__	Bishops Wood 132kV_Upton Warren 132 11 (GT4 T1 & T2 OS)__	0.000			
Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Woofferton 66 11	Bishops Wood 132kV_Hereford (Bishops Wood) & Ludlow 132 66_Woofferton 66 11	0.000			
Bishops Wood 132kV_Stourport 132 33_Wribbenhall 33 11	Bishops Wood 132kV_Stourport 132 33_Wribbenhall 33 11	0.000			
Willenhall 132kV	Willenhall 132kV	0.000			
Bustleholm 132kV	Bustleholm 132kV	0.000			
Rugeley 132kV	Rugeley 132kV	0.000			
Bushbury 132kV	Bushbury 132kV	0.000			
HYB:[Willenhall 132kV] & [Bustleholm 132kV]->Willenhall 132kV_Bentley 132 11 (GT1 & GT2)__	HYB:[Willenhall 132kV] & [Bustleholm 132kV]->Willenhall 132kV_Bentley 132 11 (GT1 & GT2)__	0.000			
HYB:[Willenhall 132kV] & [Rugeley 132kV]->Rugeley 132kV_Burntwood 132 11 (GT1 GT2 & GT3)__	HYB:[Willenhall 132kV] & [Rugeley 132kV]->Rugeley 132kV_Burntwood 132 11 (GT1 GT2 & GT3)__	0.000			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Stafford South 132 11 (GT1 & GT3)__	HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Stafford South 132 11 (GT1 & GT3)__	0.000			
HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Network Rail Stafford (T1 & T2)__	HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Network Rail Stafford (T1 & T2)__	0.000			
HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Stafford 132 11 (GT1B & GT2B)__	HYB:[Rugeley 132kV] & [Bushbury 132kV]->Bushbury 132kV_Stafford 132 11 (GT1B & GT2B)__	0.000			
Bushbury 132kV_Bushbury 132 33__	Bushbury 132kV_Bushbury 132 33__	4.869			
Bustleholm 132kV_Walsall 132 33__	Bustleholm 132kV_Walsall 132 33__	0.000			
Willenhall 132kV_Wolverhampton 132 33__	Willenhall 132kV_Wolverhampton 132 33__	0.000			
Bustleholm 132kV_Network Rail Smethwick__	Bustleholm 132kV_Network Rail Smethwick__	0.000			
Bushbury 132kV_Network Rail Stafford (T1 & T2)__	Bushbury 132kV_Network Rail Stafford (T1 & T2)__	0.000			
Willenhall 132kV_Network Rail Willenhall__	Willenhall 132kV_Network Rail Willenhall__	0.000			
Bustleholm 132kV_Network Rail Winson Green__	Bustleholm 132kV_Network Rail Winson Green__	0.000			
HYB:[Bushbury 132kV_Bushbury 132 33__] & [Willenhall 132kV_Wolverhampton 132 33__]->Bushbury 132kV_Bushbury 132 33_Goodyear (T1 T2 & T3)	HYB:[Bushbury 132kV_Bushbury 132 33__] & [Willenhall 132kV_Wolverhampton 132 33__]->Bushbury 132kV_Bushbury 132 33_Goodyear (T1 T2 & T3)	3.246			
Bushbury 132kV_Bushbury 132 33_Albrighton 33 11 (T1A)	Bushbury 132kV_Bushbury 132 33_Albrighton 33 11 (T1A)	0.000			
Bustleholm 132kV_Walsall 132 33_Aldridge 33 6.6	Bustleholm 132kV_Walsall 132 33_Aldridge 33 6.6	0.000			
Bushbury 132kV_Bushbury 132 11__	Bushbury 132kV_Bushbury 132 11__	0.000			

Western Power Distribution (West Midlands) plc - Effective from 1 April 2013 - Final Nodal/Zonal charges					
Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Willenhall 132kV_Bentley 132 11 (GT1 & GT2)__	Willenhall 132kV_Bentley 132 11 (GT1 & GT2)__	0.000			
Rugeley 132kV_Cannock 132 11 (GT1 & GT2 GT3)__	Rugeley 132kV_Cannock 132 11 (GT1 & GT2 GT3)__	0.000			
Rugeley 132kV_Burntwood 132 11 (GT1 GT2 & GT3)__	Rugeley 132kV_Burntwood 132 11 (GT1 GT2 & GT3)__	0.000			
Bustleholm 132kV_Bustleholm 132 11__	Bustleholm 132kV_Bustleholm 132 11__	0.000			
Bustleholm 132kV_Winson Green 132 11__	Bustleholm 132kV_Winson Green 132 11__	0.000			
Bustleholm 132kV_Smethwick 132 11__	Bustleholm 132kV_Smethwick 132 11__	0.947			
Bushbury 132kV_Bushbury 132 33_Four Ashes 33 11	Bushbury 132kV_Bushbury 132 33_Four Ashes 33 11	0.000			
Bushbury 132kV_Stafford South 132 11 (GT1 & GT3)__	Bushbury 132kV_Stafford South 132 11 (GT1 & GT3)__	0.000			
Bushbury 132kV_Bushbury 132 33_Goodyear (T1 T2 & T3)	Bushbury 132kV_Bushbury 132 33_Goodyear (T1 T2 & T3)	0.000			
Bustleholm 132kV_Ladywood 132 11__	Bustleholm 132kV_Ladywood 132 11__	0.000			
Bustleholm 132kV_Kingstanding 132 11__	Bustleholm 132kV_Kingstanding 132 11__	0.000			
Rugeley 132kV_Lichfield 132 11__	Rugeley 132kV_Lichfield 132 11__	0.000			
Bustleholm 132kV_Perry Barr 132 11__	Bustleholm 132kV_Perry Barr 132 11__	0.000			
Rugeley 132kV_Rugeley Town 132 11__	Rugeley 132kV_Rugeley Town 132 11__	0.000			
Bustleholm 132kV_Rushall 132 11__	Bustleholm 132kV_Rushall 132 11__	0.000			
Bushbury 132kV_Stafford 132 11 (GT1B & GT2B)__	Bushbury 132kV_Stafford 132 11 (GT1B & GT2B)__	0.000			
Bushbury 132kV_Wednesfield 132 11__	Bushbury 132kV_Wednesfield 132 11__	0.000			
Willenhall 132kV_Willenhall 132	Willenhall 132kV_Willenhall 132	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
11__	11__				
Willenhall 132kV_Wolverhampton 132 11 (GT1 GT2 &T5)__	Willenhall 132kV_Wolverhampton 132 11 (GT1 GT2 &T5)__	0.000			
Bushbury 132kV_Bushbury 132 33_i54	Bushbury 132kV_Bushbury 132 33_i54	0.000			
Cellarhead 132kV	Cellarhead 132kV	3.715			
Cellarhead 132kV_Meaford 'C' 132 33__	Cellarhead 132kV_Meaford 'C' 132 33__	0.202			
Cellarhead 132kV_Boothen 132 33__	Cellarhead 132kV_Boothen 132 33__	0.000			
Cellarhead 132kV_Forsbrook 132 33__	Cellarhead 132kV_Forsbrook 132 33__	0.000			
Cellarhead 132kV_Whitfield 132 33__	Cellarhead 132kV_Whitfield 132 33__	1.523			
Cellarhead 132kV_Network Rail Kidsgrove__	Cellarhead 132kV_Network Rail Kidsgrove__	0.000			
Cellarhead 132kV_Newcastle 132 33__	Cellarhead 132kV_Newcastle 132 33__	0.000			
HYB:[Cellarhead 132kV_Meaford 'C' 132 33__] & [Cellarhead 132kV_Forsbrook 132 33__]->Cellarhead 132kV_Meaford 'C' 132 33_Cheadle 33 11 (T1 & T2)	HYB:[Cellarhead 132kV_Meaford 'C' 132 33__] & [Cellarhead 132kV_Forsbrook 132 33__]->Cellarhead 132kV_Meaford 'C' 132 33_Cheadle 33 11 (T1 & T2)	0.086			
Cellarhead 132kV_Meaford 'C' 132 33_Bearstone 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Bearstone 33 11	0.000			
Cellarhead 132kV_Boothen 132 11__	Cellarhead 132kV_Boothen 132 11__	0.000			
Cellarhead 132kV_Boothen 132 33_Boothen 33 11	Cellarhead 132kV_Boothen 132 33_Boothen 33 11	0.000			
Cellarhead 132kV_Burslem 132 11__	Cellarhead 132kV_Burslem 132 11__	0.000			
Cellarhead 132kV_Forsbrook 132 33_Cauldon 33 11	Cellarhead 132kV_Forsbrook 132 33_Cauldon 33 11	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Cellarhead 132kV_Meaford 'C' 132 33_Cheadle 33 11 (T1 & T2)	Cellarhead 132kV_Meaford 'C' 132 33_Cheadle 33 11 (T1 & T2)	0.000			
Cellarhead 132kV_Whitfield 132 33_Cheddleton 33 11	Cellarhead 132kV_Whitfield 132 33_Cheddleton 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Cotes Heath 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Cotes Heath 33 11	0.000			
Cellarhead 132kV_Whitfield 132 33_Congleton 33 11	Cellarhead 132kV_Whitfield 132 33_Congleton 33 11	1.013			
Cellarhead 132kV_Meaford 'C' 132 33_Eccleshall 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Eccleshall 33 11	0.000			
Cellarhead 132kV_Whitfield 132 33_Endon 33 11	Cellarhead 132kV_Whitfield 132 33_Endon 33 11	0.000			
Cellarhead 132kV_Longton 132 11__	Cellarhead 132kV_Longton 132 11__	0.000			
Cellarhead 132kV_Forsbrook 132 33_Froghall 33 11	Cellarhead 132kV_Forsbrook 132 33_Froghall 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Gnosall 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Gnosall 33 11	0.000			
Cellarhead 132kV_Whitfield 132 33_Goldenhill Bank 33 11	Cellarhead 132kV_Whitfield 132 33_Goldenhill Bank 33 11	7.737			
NO NAME [GT 11]	_NO NAME_ [GT 11]	0.000			
NO NAME [HAWD11]	_NO NAME_ [HAWD11]	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_High Offley 33 11	Cellarhead 132kV_Meaford 'C' 132 33_High Offley 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Hill Chorlton 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Hill Chorlton 33 11	12.657			
Cellarhead 132kV_Meaford 'C' 132 33_Hinstock 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Hinstock 33 11	0.000			
Cellarhead 132kV_Newcastle 132 11__	Cellarhead 132kV_Newcastle 132 11__	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Hookgate 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Hookgate 33 11	0.000			
Cellarhead 132kV_Forsbrook 132 33_Kingsley Holt 33 11	Cellarhead 132kV_Forsbrook 132 33_Kingsley Holt 33 11	0.000			
Cellarhead 132kV_Whitfield 132	Cellarhead 132kV_Whitfield 132	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
33_Knypersley 33 11	33_Knypersley 33 11				
Cellarhead 132kV_Whitfield 132 33_Leek 33 11	Cellarhead 132kV_Whitfield 132 33_Leek 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Market Drayton 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Market Drayton 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Meaford 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Meaford 33 11	0.000			
Cellarhead 132kV_Newcastle 132 33_Scot Hay 33 11	Cellarhead 132kV_Newcastle 132 33_Scot Hay 33 11	0.000			
Cellarhead 132kV_Forsbrook 132 33_Simplex 33 11	Cellarhead 132kV_Forsbrook 132 33_Simplex 33 11	0.000			
Cellarhead 132kV_Stagefields 132 11__	Cellarhead 132kV_Stagefields 132 11__	0.000			
Cellarhead 132kV_Newcastle 132 33_Stagefields 33 11 (T5)	Cellarhead 132kV_Newcastle 132 33_Stagefields 33 11 (T5)	0.000			
Cellarhead 132kV_Forsbrook 132 33_Stagefields 33 11 (T6)	Cellarhead 132kV_Forsbrook 132 33_Stagefields 33 11 (T6)	0.000			
Cellarhead 132kV_Newcastle 132 33_Talke 33 11	Cellarhead 132kV_Newcastle 132 33_Talke 33 11	0.000			
Cellarhead 132kV_Meaford 'C' 132 33_Tean 33 11	Cellarhead 132kV_Meaford 'C' 132 33_Tean 33 11	0.000			
Cellarhead 132kV_Whitfield 132 33_Whitfield 33 11	Cellarhead 132kV_Whitfield 132 33_Whitfield 33 11	2.604			
Feckenham 66kV	Feckenham 66kV	3.307			
Feckenham 66kV_Bevington 66 11__	Feckenham 66kV_Bevington 66 11__	0.000			
Feckenham 66kV_Bloxham 66 11__	Feckenham 66kV_Bloxham 66 11__	0.000			
Feckenham 66kV_Broadway 66 11__	Feckenham 66kV_Broadway 66 11__	0.000			
Feckenham 66kV_Brotheridge Green 66 11__	Feckenham 66kV_Brotheridge Green 66 11__	0.000			
Feckenham 66kV_Droitwich (T3) 66 11__	Feckenham 66kV_Droitwich (T3) 66 11__	0.000			

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Feckenham 66kV_Epwell 66 11__	Feckenham 66kV_Epwell 66 11__	0.000			
Feckenham 66kV_Evesham 66 11__	Feckenham 66kV_Evesham 66 11__	0.000			
Feckenham 66kV_Feckenham 66 11__	Feckenham 66kV_Feckenham 66 11__	0.000			
Feckenham 66kV_Great Alne 66 11__	Feckenham 66kV_Great Alne 66 11__	0.000			
Feckenham 66kV_Pershore 66 11__	Feckenham 66kV_Pershore 66 11__	0.000			
Feckenham 66kV_Ipsley 66 11__	Feckenham 66kV_Ipsley 66 11__	0.000			
Feckenham 66kV_Ledbury 66 11 (T2)__	Feckenham 66kV_Ledbury 66 11 (T2)__	0.000			
Feckenham 66kV_Long Marston 66 11__	Feckenham 66kV_Long Marston 66 11__	0.000			
Feckenham 66kV_Moreton 66 11__	Feckenham 66kV_Moreton 66 11__	0.000			
Feckenham 66kV_Northwick Estates Solar generation__	Feckenham 66kV_Northwick Estates Solar generation__	0.000			
Feckenham 66kV_Redditch North 66 11 (T1 & T2)__	Feckenham 66kV_Redditch North 66 11 (T1 & T2)__	0.000			
Feckenham 66kV_Redditch South 66 11__	Feckenham 66kV_Redditch South 66 11__	0.000			
Feckenham 66kV_Stratford 66 11__	Feckenham 66kV_Stratford 66 11__	0.000			
Feckenham 66kV_Shipston 66 11__	Feckenham 66kV_Shipston 66 11__	0.000			
Feckenham 66kV_Stow 66 11__	Feckenham 66kV_Stow 66 11__	0.000			
Feckenham 66kV_Strensham 66 11__	Feckenham 66kV_Strensham 66 11__	0.000			
Feckenham 66kV_Tewkesbury 66 11__	Feckenham 66kV_Tewkesbury 66 11__	0.000			
Feckenham 66kV_Wormington 66 11__	Feckenham 66kV_Wormington 66 11__	0.000			
Iron Acton 132kV	Iron Acton 132kV	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33__	Iron Acton 132kV_Chipping Sodbury 132 33__	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down	Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
33 11	11				
Iron Acton 132kV_Ryeford 132 33__	Iron Acton 132kV_Ryeford 132 33__	1.787			
HYB:[Iron Acton 132kV_Chipping Sodbury 132 33__] & [Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11]->Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11	HYB:[Iron Acton 132kV_Chipping Sodbury 132 33__] & [Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11]->Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11	0.000			
HYB:[Iron Acton 132kV_Chipping Sodbury 132 33__] & [Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11]->Iron Acton 132kV_Bradley Stoke (WPD SW) 132 33 Interconnector_Alveston 33 11	HYB:[Iron Acton 132kV_Chipping Sodbury 132 33__] & [Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11]->Iron Acton 132kV_Bradley Stoke (WPD SW) 132 33 Interconnector_Alveston 33 11	0.000			
Iron Acton 132kV_Bradley Stoke (WPD SW) 132 33 Interconnector_Alveston 33 11	Iron Acton 132kV_Bradley Stoke (WPD SW) 132 33 Interconnector_Alveston 33 11	0.000			
Iron Acton 132kV_Ryeford 132 33_Berkeley 33 11	Iron Acton 132kV_Ryeford 132 33_Berkeley 33 11	0.000			
Iron Acton 132kV_Ryeford 132 33_Camp 33 11	Iron Acton 132kV_Ryeford 132 33_Camp 33 11	0.000			
Iron Acton 132kV_Ryeford 132 33_Cherington 33 11	Iron Acton 132kV_Ryeford 132 33_Cherington 33 11	0.000			
Iron Acton 132kV_Chipping Sodbury 132 11 (GT1 GT2 & T3)__	Iron Acton 132kV_Chipping Sodbury 132 11 (GT1 GT2 & T3)__	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33_Cowhorn 33 11	Iron Acton 132kV_Chipping Sodbury 132 33_Cowhorn 33 11	0.000			
Iron Acton 132kV_Ryeford 132	Iron Acton 132kV_Ryeford 132	1.551			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
33_Dudbridge 33 11	33_Dudbridge 33 11				
Iron Acton 132kV_Ryeford 132 33_Dursley 33 11	Iron Acton 132kV_Ryeford 132 33_Dursley 33 11	0.000			
Iron Acton 132kV_Ryeford 132 33_Netherhills 33 11	Iron Acton 132kV_Ryeford 132 33_Netherhills 33 11	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11	Iron Acton 132kV_Chipping Sodbury 132 33_Hammerley Down 33 11	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33_Naishcombe Hill 33 11	Iron Acton 132kV_Chipping Sodbury 132 33_Naishcombe Hill 33 11	0.000			
Iron Acton 132kV_Chipping Sodbury 132 33_Oxbridge 33 11	Iron Acton 132kV_Chipping Sodbury 132 33_Oxbridge 33 11	0.000			
Iron Acton 132kV_Ryeford 132 33_Ryeford 33 11	Iron Acton 132kV_Ryeford 132 33_Ryeford 33 11	0.000			
Ironbridge & Shrewsbury 132kV	Ironbridge & Shrewsbury 132kV	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33__	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33__	0.310			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33__	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33__	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33__	Ironbridge & Shrewsbury 132kV_Ketley 132 33__	0.000			
HYB:[Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33__] & [Ironbridge & Shrewsbury 132kV_Ketley 132 33__]->Ironbridge & Shrewsbury 132kV_Ketley 132 33_Dothill 33 11 (T2)	HYB:[Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33__] & [Ironbridge & Shrewsbury 132kV_Ketley 132 33__]->Ironbridge & Shrewsbury 132kV_Ketley 132 33_Dothill 33 11 (T2)	0.192			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Bayston Hill 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Bayston Hill 33 11	0.000			

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Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Berrington 33/11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Berrington 33/11	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Weir Hill 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Weir Hill 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Broseley 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Broseley 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 11__	Ironbridge & Shrewsbury 132kV_Ketley 132 11__	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Spring Gardens 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Spring Gardens 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Donnington 33 11	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Donnington 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Dothill 33 11 (T2)	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Dothill 33 11 (T2)	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Easthope 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Easthope 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Snedshill 33 11	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Snedshill 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Newport 33 11	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Newport 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Halesfield 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Halesfield 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Harlescott 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Harlescott 33 11	0.541			
Ironbridge & Shrewsbury 132kV_Hortonwood 132 11__	Ironbridge & Shrewsbury 132kV_Hortonwood 132 11__	0.000			

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Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Leaton 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Leaton 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Leebotwood 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Leebotwood 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Madeley 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Madeley 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Malehurst 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Malehurst 33 11	1.671			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Priest Weston 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Priest Weston 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Quatt 33 11 (T2)	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Quatt 33 11 (T2)	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Roushill 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Roushill 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Rowton 33 11	Ironbridge & Shrewsbury 132kV_Shrewsbury 132 33_Rowton 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Sankey 33 11	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Sankey 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ketley 132 33_Shifnal 33 11	Ironbridge & Shrewsbury 132kV_Ketley 132 33_Shifnal 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Star Aluminium 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Star Aluminium 33 11	0.000			
Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Worfield 33 11	Ironbridge & Shrewsbury 132kV_Ironbridge 132 33_Worfield 33 11	0.000			
Nechells 132kV	Nechells 132kV	0.000			
Kitwell 132kV	Kitwell 132kV	0.000			
Lea Marston 132kV	Lea Marston 132kV	0.000			

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HYB:[Nechells 132kV] & [Lea Marston 132kV]->Nechells 132kV_Castle Bromwich 132 11 (GT1 & GT2)__	HYB:[Nechells 132kV] & [Lea Marston 132kV]->Nechells 132kV_Castle Bromwich 132 11 (GT1 & GT2)__	0.000			
HYB:[Nechells 132kV] & [Lea Marston 132kV]->Nechells 132kV_Boughton Road 132 11 (GT1 & GT2)__	HYB:[Nechells 132kV] & [Lea Marston 132kV]->Nechells 132kV_Boughton Road 132 11 (GT1 & GT2)__	0.000			
HYB:[Kitwell 132kV] & [Lea Marston 132kV]->Kitwell 132kV_Shirley 132 11 (GT2 GT3 & GT1)__	HYB:[Kitwell 132kV] & [Lea Marston 132kV]->Kitwell 132kV_Shirley 132 11 (GT2 GT3 & GT1)__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town__	Lea Marston 132kV_Tamworth and Tamworth Town__	0.000			
Lea Marston 132kV_Network Rail Tamworth__	Lea Marston 132kV_Network Rail Tamworth__	0.000			
Nechells 132kV_Network Rail Washwood Heath__	Nechells 132kV_Network Rail Washwood Heath__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Apollo	Lea Marston 132kV_Tamworth and Tamworth Town_Apollo	0.000			
Nechells 132kV_Summer Lane 132 11__	Nechells 132kV_Summer Lane 132 11__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Atherstone	Lea Marston 132kV_Tamworth and Tamworth Town_Atherstone	0.000			
Kitwell 132kV_Bartley Green 132 11__	Kitwell 132kV_Bartley Green 132 11__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Tamworth	Lea Marston 132kV_Tamworth and Tamworth Town_Tamworth	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Birch Coppice	Lea Marston 132kV_Tamworth and Tamworth Town_Birch Coppice	0.000			
Nechells 132kV_Bordesley 132 11__	Nechells 132kV_Bordesley 132 11__	0.000			
Nechells 132kV_Boughton Road 132 11 (GT1 & GT2)__	Nechells 132kV_Boughton Road 132 11 (GT1 & GT2)__	0.000			
Kitwell 132kV_Bournville 132 11__	Kitwell 132kV_Bournville 132 11__	0.000			

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Nechells 132kV_Castle Bromwich 132 11 (GT1 & GT2)__	Nechells 132kV_Castle Bromwich 132 11 (GT1 & GT2)__	0.000			
Nechells 132kV_Cheapside 132 11__	Nechells 132kV_Cheapside 132 11__	0.000			
Kitwell 132kV_Chad Valley 132 11__	Kitwell 132kV_Chad Valley 132 11__	0.000			
Nechells 132kV_Chester Street 132 11__	Nechells 132kV_Chester Street 132 11__	0.000			
Lea Marston 132kV_Chelmsley Wood 132 11__	Lea Marston 132kV_Chelmsley Wood 132 11__	0.000			
Lea Marston 132kV_Copt Heath 132 11__	Lea Marston 132kV_Copt Heath 132 11__	0.000			
Lea Marston 132kV_Elmdon 132 11__	Lea Marston 132kV_Elmdon 132 11__	0.000			
Nechells 132kV_Erdington 132 11__	Nechells 132kV_Erdington 132 11__	0.000			
Lea Marston 132kV_Hams Hall South 132 11__	Lea Marston 132kV_Hams Hall South 132 11__	0.000			
Kitwell 132kV_Halesowen 132 11__	Kitwell 132kV_Halesowen 132 11__	0.000			
Kitwell 132kV_Hall Green 132 11__	Kitwell 132kV_Hall Green 132 11__	0.000			
Kitwell 132kV_Highters Heath 132 11__	Kitwell 132kV_Highters Heath 132 11__	0.000			
Nechells 132kV_Hockley 132 11__	Nechells 132kV_Hockley 132 11__	0.000			
Nechells 132kV_Nechells West 132 11__	Nechells 132kV_Nechells West 132 11__	0.000			
Lea Marston 132kV_Kitts Green (GT1 & GT2) 132 11__	Lea Marston 132kV_Kitts Green (GT1 & GT2) 132 11__	0.000			
Kitwell 132kV_Longbridge 132 11__	Kitwell 132kV_Longbridge 132 11__	0.000			
Lea Marston 132kV_Solihull 132 11__	Lea Marston 132kV_Solihull 132 11__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Polesworth	Lea Marston 132kV_Tamworth and Tamworth Town_Polesworth	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Kitwell 132kV_Rednal 132 11__	Kitwell 132kV_Rednal 132 11__	0.000			
Kitwell 132kV_Selly Oak 132 11__	Kitwell 132kV_Selly Oak 132 11__	1.919			
Kitwell 132kV_Shirley 132 11 (GT2 GT3 & GT1)__	Kitwell 132kV_Shirley 132 11 (GT2 GT3 & GT1)__	0.000			
Nechells 132kV_Sparkbrook 132 11__	Nechells 132kV_Sparkbrook 132 11__	0.000			
Lea Marston 132kV_Sutton Coldfield 132 11__	Lea Marston 132kV_Sutton Coldfield 132 11__	0.000			
Lea Marston 132kV_Tamworth Town 132 11__	Lea Marston 132kV_Tamworth Town 132 11__	0.000			
Kitwell 132kV_Univ. of Birmingham 132 11__	Kitwell 132kV_Univ. of Birmingham 132 11__	0.000			
Lea Marston 132kV_Tamworth and Tamworth Town_Wood End	Lea Marston 132kV_Tamworth and Tamworth Town_Wood End	0.000			
Ocker Hill 132kV	Ocker Hill 132kV	0.000			
Ocker Hill 132kV_Ocker Hill 132 33__	Ocker Hill 132kV_Ocker Hill 132 33__	0.000			
Ocker Hill 132kV_Black Lake 132 11__	Ocker Hill 132kV_Black Lake 132 11__	0.000			
Ocker Hill 132kV_Ocker Hill 132 11__	Ocker Hill 132kV_Ocker Hill 132 11__	0.000			
Ocker Hill 132kV_Ocker Hill 132 33_Redman Fisher 33 11 (33kV Supply)	Ocker Hill 132kV_Ocker Hill 132 33_Redman Fisher 33 11 (33kV Supply)	0.000			
Oldbury 132kV	Oldbury 132kV	0.000			
Oldbury 132kV_Oldbury 132 33__	Oldbury 132kV_Oldbury 132 33__	0.000			
Oldbury 132kV_Birchfield Lane 132 11__	Oldbury 132kV_Birchfield Lane 132 11__	0.000			
Oldbury 132kV_Tividale 132 11__	Oldbury 132kV_Tividale 132 11__	0.000			
Oldbury 132kV_Oldbury 132 33_Oldbury 33 11	Oldbury 132kV_Oldbury 132 33_Oldbury 33 11	0.000			
Penn 132kV	Penn 132kV	0.000			
Penn 132kV_Wolverhampton West 132 33__	Penn 132kV_Wolverhampton West 132 33__	0.000			
Penn 132kV_Hinksford 132 33__	Penn 132kV_Hinksford 132 33__	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
Penn 132kV_Wolverhampton West 132 33_Albrighton 33 11 (T2A)	Penn 132kV_Wolverhampton West 132 33_Albrighton 33 11 (T2A)	0.000			
Penn 132kV_Coseley 132 11__	Penn 132kV_Coseley 132 11__	0.000			
Penn 132kV_Dudley 132 11__	Penn 132kV_Dudley 132 11__	0.000			
Penn 132kV_Hinksford 132 33_Hinksford 33 11	Penn 132kV_Hinksford 132 33_Hinksford 33 11	0.000			
Penn 132kV_Hinksford 132 33_Kinver 33 11 (T2)	Penn 132kV_Hinksford 132 33_Kinver 33 11 (T2)	0.000			
Penn 132kV_Lye 132 11__	Penn 132kV_Lye 132 11__	0.000			
Penn 132kV_Wolverhampton West 132 33_Pattingham 33 11	Penn 132kV_Wolverhampton West 132 33_Pattingham 33 11	0.000			
Penn 132kV_Wolverhampton West 132 33_Wolverhampton West 33 11	Penn 132kV_Wolverhampton West 132 33_Wolverhampton West 33 11	0.000			
Penn 132kV_Woodside 132 11__	Penn 132kV_Woodside 132 11__	0.000			
Port Ham 132kV	Port Ham 132kV	0.000			
Port Ham 132kV_Cheltenham 132 66__	Port Ham 132kV_Cheltenham 132 66__	0.000			
Port Ham 132kV_Hereford (Walham) 132 66__	Port Ham 132kV_Hereford (Walham) 132 66__	3.600			
Port Ham 132kV_Lydney 132 33__	Port Ham 132kV_Lydney 132 33__	0.000			
Port Ham 132kV_Castle Meads 132 33__	Port Ham 132kV_Castle Meads 132 33__	0.383			
Port Ham 132kV_Lydney 132 33_Mitcheldean 33 11	Port Ham 132kV_Lydney 132 33_Mitcheldean 33 11	0.000			
Port Ham 132kV_Cheltenham 132 66_Alderton 66 11	Port Ham 132kV_Cheltenham 132 66_Alderton 66 11	0.000			
Port Ham 132kV_Eastern Avenue 132 11__	Port Ham 132kV_Eastern Avenue 132 11__	0.000			
Port Ham 132kV_Lydney 132 33_Bilson 33 11	Port Ham 132kV_Lydney 132 33_Bilson 33 11	0.000			
Port Ham 132kV_Cheltenham 132 66_Bishops Cleeve 66	Port Ham 132kV_Cheltenham 132 66_Bishops Cleeve 66	0.000			

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Node/Zone ID	**Geographical name**	**Charge 1 local (£/kVA)**	**Charge 1 remote (£/kVA)**	**Charge 2 local (£/kVA)**	**Charge 2 remote (£/kVA)**
11	11				
Port Ham 132kV_Lydney 132 33_Bixhead 33 11	Port Ham 132kV_Lydney 132 33_Bixhead 33 11	0.000			
Port Ham 132kV_Castle Meads 132 33_Brockworth 33 11	Port Ham 132kV_Castle Meads 132 33_Brockworth 33 11	0.000			
Port Ham 132kV_Cheltenham 132 11__	Port Ham 132kV_Cheltenham 132 11__	0.000			
Port Ham 132kV_Commercial Road 132 11 (GT1 & TA TB)__	Port Ham 132kV_Commercial Road 132 11 (GT1 & TA TB)__	0.000			
Port Ham 132kV_Hereford (Walham) 132 66_Hereford South 66 11	Port Ham 132kV_Hereford (Walham) 132 66_Hereford South 66 11	0.000			
Port Ham 132kV_Lydney 132 33_Elton 33 11	Port Ham 132kV_Lydney 132 33_Elton 33 11	0.000			
Port Ham 132kV_Hereford (Walham) 132 66_Hereford North 66 11	Port Ham 132kV_Hereford (Walham) 132 66_Hereford North 66 11	0.000			
Port Ham 132kV_Castle Meads 132 33_Rotol 33 11	Port Ham 132kV_Castle Meads 132 33_Rotol 33 11	2.468			
Port Ham 132kV_Lydney 132 33_Lydney 33 11	Port Ham 132kV_Lydney 132 33_Lydney 33 11	0.000			
Port Ham 132kV_Marle Hill 132 11 (GT1 & TD TC OS)__	Port Ham 132kV_Marle Hill 132 11 (GT1 & TD TC OS)__	0.000			
Port Ham 132kV_Lydney 132 33_Mead Lane 33 11	Port Ham 132kV_Lydney 132 33_Mead Lane 33 11	0.000			
Port Ham 132kV_Montpellier 132 11__	Port Ham 132kV_Montpellier 132 11__	0.000			
Port Ham 132kV_Castle Meads 132 33_Tuffley 33 11 (T1A T2A & T1B T2B)	Port Ham 132kV_Castle Meads 132 33_Tuffley 33 11 (T1A T2A & T1B T2B)	0.000			
Port Ham 132kV_Lydney 132 33_Princess Royal 33 11	Port Ham 132kV_Lydney 132 33_Princess Royal 33 11	0.000			
Port Ham 132kV_Lydney 132 33_Stowfield 33 11	Port Ham 132kV_Lydney 132 33_Stowfield 33 11	0.000			

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Port Ham 132kV_Tewkesbury 132 11__	Port Ham 132kV_Tewkesbury 132 11__	0.000			

Annex 7 – Addendum to charging statement detailing Charges for New Designated EHV Properties

There are no new Designated EHV properties at the time of publishing.