

ELECTRICITY NORTH WEST

USE OF SYSTEM CHARGING STATEMENT

EFFECTIVE FROM 01 October 2011

VERSION 6.0

304 Bridgewater Place

Birchwood Park

Warrington

Cheshire

WA3 6XG

Registered no: 2366949 (England)

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1. Introduction

1.1 This statement has been prepared in order to discharge Electricity North West Limited's obligation under Standard Licence Condition 14 of our Distribution Licence. It contains information on our tariffs for Demand Use of System, Generation Use of System and Embedded Networks. It also contains information on our charging principles and our Loss Adjustment Factors.

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

Charging Manager
Electricity North West Limited
Commercial Policy
304 Bridgewater Place
Birchwood Park
Warrington
Cheshire
WA3 6XG
Email: electricitycommercialpolicy@enwl.co.uk.
Telephone: 01925 846855

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

Terms and Conditions Manager
Electricity North West Limited
Hartington Road
Preston
PR1 8LE
Email: steve.marriott@enwl.co.uk.
Telephone : 0871 6870501

1.4 For all other queries please contact our general enquiries telephone number: 01925 846999, lines are open 09:00 – 17:00 Monday to Friday. Fax: 01925 846990

Email: enquiries@enwl.co.uk.

2. Tariff Application and Charging Definitions

Billing and Payment by Settlement Class (Supercustomer)

2.1 The Supercustomer approach to Non-Half Hourly (NHH) Use of System billing makes use of the way that Supplier's energy settlements are calculated. Supercustomer tariffs are generally billed through two main charging components, which are fixed charges and unit charges.

The charges are based on the following tariff 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 import registers as provided by the metering system on site. More than one kWh charge will be applied to those tariffs that are classed as multi-rate.

2.2 Invoices are calculated on a periodic basis and sent to each supplier, for whom Electricity North West Limited is delivering supplies of electricity through its distribution system. The tariffs are applied on the basis of the Line Loss Factor Classes (LLFCs) registered to the MPAN, 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 Electricity North West Limited. The charges in this document are shown exclusive of VAT. Invoices take account of previous reconciliation runs and include VAT.

2.3 Reconciliation is the process that ensures the cash positions of suppliers and Electricity North West Limited are continually corrected to reflect later and more accurate consumption figures.

2.4 The tables within this document relating to NHH Supercustomer billed tariffs are:

- Table 1 for Profile Classes 1 and 2;
- Table 2 for Profile Classes 3 and 4;
- Table 3 for Profile Classes 5 to 8;
- Table 6 for Unmetered Supplies (NHH); and
- Table 7a for Preserved Tariffs/LLFCs (Where Applicable).

2.5 Where an MPAN has an invalid settlement combination the 'Domestic Unrestricted' tariff will be applied as default until the invalid combination is corrected.

Site-Specific Billing and Payment

2.6 These charges apply to exit points where Half-Hourly (HH) metering is installed. Invoices for half hourly metered sites may include the following elements:-

- A fixed charge pence/MPAN/day;
- A capacity charge, pence/kVA/day, for agreed maximum import capacity (MIC);
- An excess capacity charge, if a site exceeds its MIC;
- Unit charges pence/kWh for transport of electricity over the system; and
- An excess reactive power charge.

2.7 The tables within this document that relate to site specific tariffs are:

- Table 4 for HH metered High Voltage (HV) and Low Voltage (LV);
- Table 5 for HH metered Extra High Voltage (EHV);
- Table 6 for Unmetered supplies (Pseudo HH); and
- Table 7b for Preserved/Additional Tariffs/LLFCs (Where Applicable).

Extra High Voltage (EHV) supplies

2.8 Designated EHV Properties are allocated Site Specific DUoS tariffs. These properties are defined in paragraph 11 of Standard Condition 50A (Development and implementation of an EHV Distribution Charging Methodology) of the Electricity Distribution Licence as any of the following:

- 2.8.1 Distribution Systems connected to assets on the licensee's Distribution System at a voltage level of 22 kilovolts or more;
- 2.8.2 premises connected to assets on the licensee's Distribution System at a voltage level of 22 kilovolts or more; and
- 2.8.3 premises which do not fall within sub-paragraph (2.8.1) but which at 1 April 2010 were excluded from the Common Distribution Charging Methodology by virtue of paragraph 10 of standard condition 50 (Development and implementation of Common Distribution Charging Methodology).

Unmetered Supplies

2.9 These charges are available to supplies which Electricity North West Limited deems to be suitable as Unmetered Supplies. In line with The Electricity (Unmetered Supply) Regulations we may only consider providing an unmetered supply where:

- 2.9.1 there is a known, predictable load which is either continuous or controlled in a manner approved by Electricity North West Limited, and
- 2.9.2 the load is less than 500W or it is financially or technically impractical to install meters or carry out meter reading.

2.10 Supplies where consumption is dependent on some factor, temperature for example, or where the load could be easily increased without the knowledge of Electricity North West Limited will not normally be allowed to be connected without a meter.

2.11 The privilege of being connected without a meter is conditional on the customer providing and maintaining an accurate, detailed and auditable inventory.

Capacity Charges (demand only)

Chargeable Capacity

2.12 The standard charge will be a site's Maximum Import Capacity MIC multiplied by a pence/kVA per day rate.

2.13 The chargeable capacity is, for each billing period, the highest of the MIC or the actual capacity, with the same charge rate applying throughout the relevant charging year.

Maximum Import Capacity

2.14 The MIC will be charged in pence/kVA/day on a site basis.

2.15 The level of MIC will be agreed at the time of connection and when an increase has been approved. Following such an agreement (be it at the time of connection or an increase) no reduction in MIC will be allowed for a period of one year.

2.16 Reductions to the MIC may only be permitted once in a 12 month period and no retrospective changes will be allowed. Where MIC is reduced the new lower level will be agreed with reference to the level of the customers' 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.

2.17 For embedded connections, if capacity ramping has been agreed with Electricity North West Limited, in accordance with our charging methodology, the phasing profile will apply instead of the above rules. Where a phasing of capacity is agreed this will be captured in the bilateral connection agreement with Electricity North West Limited.

Standby Capacity for Additional Security on Site

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

Exceeded Capacity

2.19 Where a customer takes additional capacity over and above the MIC without authorisation, the excess will be classed as exceeded capacity. The exceeded portion of the capacity will be charged at the same p/kVA/day rate, based on the difference

between the MIC and the actual capacity. This will be charged for the duration of the month in which the breach occurs.

Minimum Capacity Levels

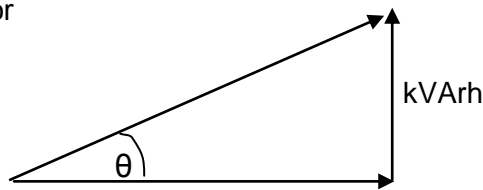
2.20 There is no minimum capacity threshold.

Import Reactive Power Charge

2.21 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 tariff.

2.22 Power Factor is calculated as follows:

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



2.23 The chargeable reactive power is calculated as follows:

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

Where:

AI = Active Import in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

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

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

Generation Billing and Payment by Settlement Class

2.27 Use of System charges for NHH Low Voltage (LV and LVS) generation tariffs will be via Supercustomer.

2.28 The structure of NHH generation charges will be as follows:

- A fixed charge pence/MPAN/day; and

- Unit charges pence/kWh for transport of electricity over the system.

2.29 Details of our charges for NHH Generation can be found in Section 4.

Generation Site Specific Billing and Payment

2.30 Use of System charges for HH Low Voltage (LV) and high voltage (HV) generation tariffs will be billed via the HH billing systems.

2.31 The structure of HH generation charges will be as follows:

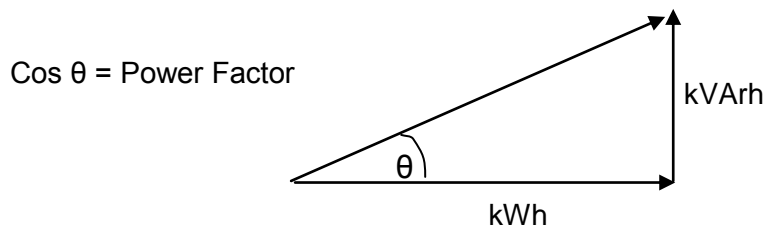
- A fixed charge pence/MPAN/day;
- Unit charges pence/kWh for transport of electricity over the system; and
- An excess reactive power charge.

2.32 Details of our charges for HH Generation can be found in Section 4.

Generation Reactive Power Charge

2.33 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 for at the rate appropriate to the particular tariff.

2.34 Power Factor is calculated as follows:



2.35 The chargeable reactive power is calculated as follows:

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

Where:

AE = Active Export in kWh

RI = Reactive Import in kVArh

RE = Reactive Export in kVArh

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

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

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

Generation connected at EHV

2.39 Charges for EHV connected generation will be site specific. The methodology for calculating EHV charges is set out in the Electricity North West Limited Statement of Charging Methodology. This document can be found on the Electricity North West Limited's website www.enwl.co.uk.

Provision of billing data

2.40 Where half hourly metering data is required for Use of System charging and this is not provided through settlements processes, such metering data shall be provided by the user of the system to Electricity North West Limited 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 in each half hour of each day in the charging period and shall separately identify active and reactive import and export. Metering Data provided to the company shall be consistent with that received through the metering equipment installed. Metering data shall be provided in an electronic format specified by Electricity North West Limited 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 D0275 MRA data flow (as agreed with Electricity North West Limited). The data shall be e-mailed to enquiries@enwl.co.uk.

2.41 Electricity North West Limited requires reactive consumption or production to be provided for all measurement Class C and D (mandatory half hourly metered) and E (Elective half hourly metered) sites. Electricity North West Limited reserves the right to levy a charge on suppliers who fail to provide such reactive data after a reasonable period of notice and to estimate the missing reactive data (Details of how the data has been estimated can be provided on request).

Licensed Distributor Network Operator (LDNO) tariffs

2.42 LDNO tariffs have been calculated for use by LDNOs only to reflect the displacement of the upstream DNO distribution costs and are not available for DNO to DNO inter-connectors, connections to other offshore transmission networks or other similar connections. Use of system charges for inter-connectors, offshore transmission connections or other similar connections will be based on the appropriate standard tariffs.

3. Schedule of Demand Tariffs

Tariffs for Profile Classes 1 & 2

- 3.1. Suppliers who wish to supply electricity to customers with non-half hourly metered Measurement Class A MPANs on Profile Classes 1 or 2 may adopt one of the charge structures set out in the table below.
- 3.2. Valid combinations for these Line Loss Factor Classes (LLFCs) are detailed in Market Domain Data (MDD).

Table 1 – NHH Tariffs for Profile Classes 1 & 2					
Description	LLFC	Profile class	Fixed charge (p/MPAN/day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
Domestic Unrestricted	011, 041, 441, 511	1	3.14	2.044	
Domestic Two Rate	031, 051, 061, 451, 531	2	3.14	2.348	0.230
Domestic Off-Peak (Related MPAN)	081, 581	2		0.234	
Notes:	Unit time periods are as specified in the SSC.				
	The Domestic and Non-Domestic off-peak (related MPAN) tariffs are supplementary to a standard published tariff and therefore only available under these conditions.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				
	LLF 531 with SSC 948 and TPRs 415 and 416 will be charged the Domestic Unrestricted rate for the Day rate and the Night rate.				
	<p>LLFC codes in this table are primarily designed for domestic premises. Domestic premises are premises, used exclusively as private dwellings. These LLFC codes can also be used in premises used for residential business purposes, including boarding houses, hotels, hostels, homes for children and the elderly, premises divided into flats, or bed sitting rooms and caravan sites under the following conditions:</p> <ol style="list-style-type: none"> 1. the supply is single phase and the capacity required in no greater than 24 kVA; 2. where the premises are unlicensed; and <p>where a caravan site supply is to provide electricity for use only for caravans used as dwellings.</p>				

Tariffs for Profile Classes 3 & 4

3.3. Suppliers who wish to supply electricity to customers with non-half hourly metered Measurement Class A MPANs on Profile Classes 3 or 4 may, adopt one of the charge structures set out in the table below.

3.4. Valid combinations for these tariffs are detailed in MDD.

Table 2 – NHH Tariffs for Profile Classes 3 & 4					
Description	LLFC	Profile class	Fixed charge (p/MPAN /day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
Small Non-Domestic Unrestricted	131, 191, 631	3	3.14	1.532	
Small Non-Domestic Two Rate	161, 171, 661	4	3.14	2.312	0.231
Small Non-Domestic Off peak (Related MPAN)	091, 591	4		0.234	
Notes:	Unit time periods are as specified in the SSC.				
	The Domestic and Non-Domestic off-peak (related MPAN) tariffs are supplementary to a standard published tariff and therefore only available under these conditions.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				
	These tariffs apply to NHH customers with a capacity of less than 60kVA.				

Tariffs for Profile Classes 5-8

3.5. Suppliers who wish to supply electricity to customers with non-half hourly metered Measurement Class A MPANs on Profile Classes 5 to 8 may, adopt one of the charge structures set out in the table below.

3.6. Valid combinations for these tariffs are detailed in MDD.

Table 3 – NHH Tariffs for Profile Classes 5 to 8					
Description	LLFC	Profile class	Fixed charge (p/MPAN/day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
LV Medium Non-Domestic	241, 431, 481, 751	5-8	20.97	1.320	0.123
LV Sub Medium Non-Domestic	242, 432, 482, 752	5-8	67.27	1.135	0.101
Notes:	Unit time periods are as specified in the SSC.				
	LV Sub applies to customers connected to the licensee's distribution system at a voltage of less than 1 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 1 kV and less than 22 kV, where the current transformer used for the customer's settlement metering is located at the substation. LV substation tariffs will be applied for new customers from 1 April 2010. Where a customer is already registered on either an LV substation tariff they will remain so.				
	These tariffs apply to NHH customers with a demand of less than 100kW.				
	For Profile classes' 5 to 8 Maximum Demand metering functionality is required.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				

Tariffs for Half-Hourly Metered LV and HV

3.7. Suppliers who wish to supply electricity to customers whose supplies are half hourly metered Measurement Class C or E may, adopt one of the charge structures dependent upon the voltage at which the customer is connected to the system. The charge for the Use of System will be the sum of the charges set out in the table below.

Table 4 – Tariffs for HH metered LV & HV								
Description	LLFC	Fixed charge (p/MPAN/day)	Capacity charge (p/kVA/day)	Excess capacity charge (p/kVA/day)	Red unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVArh)
LV HH Metered	801	11.45	3.15	3.15	6.640	0.637	0.084	0.204
LV Sub HH Metered	802	38.76	3.46	3.46	8.319	0.752	0.094	0.200
HV HH Metered	803	84.08	3.21	3.21	6.387	0.512	0.055	0.138
HV Sub HH Metered	804	98.05	2.20	2.20	4.780	0.338	0.030	0.108
Notes:	Fixed charges are generally levied on a pence per MPAN basis. Where two or more half-hourly import MPANs are located at the same point of connection, with the same LLFC, and registered to the same supplier, only one daily fixed charge and capacity charge will be applied.							
	LV Sub applies to customers connected to the licensee's distribution system at a voltage of less than 1 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 1 kV and less than 22 kV, where the current transformer used for the customer's settlement metering is located at the substation.							
	HV Sub applies to customers connected to the licensee's distribution system at a voltage of at least 1 kV and less than 22 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 22 kV and less than 66 kV, where the current transformer used for the customer's settlement metering or for metering used in the calculation of the customer's use of system charges or credits is located at the substation.							
	LV and HV substation tariffs will be applied for new customers from 1 April 2010. Where a customer is already registered on either an LV or HV substation tariff they will remain so.							

Time Periods:

Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays.

Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday.

Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and between 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday.

All times are UK clock-time.

Tariffs for Half-Hourly Metered EHV

3.8. The following charges are calculated using Electricity North West Limited EHV charging methodology and are applied on a site specific basis.

Table 5 – Site-Specific tariffs for HH metered EHV								
Description	LLFC	Fixed charge (p/Site/day)	Capacity charge (p/kVA/day)	Excess capacity charge (p/kVA/day)	Red unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVArh)
Site 1	130	2066.20	1.89	1.89				
Site 2	140	1197.03	4.66	4.66				
Site 3	160	978.18	8.17	8.17				
Site 4	180	8960.19	4.89	4.89				
Site 5	200	10085.56	1.43	1.43				
Site 6	220	3736.28	1.42	1.42				
Site 7	240	6398.93	1.42	1.42				
Site 8	260	1197.03	4.08	4.08				
Site 9	280	15024.06	3.24	3.24				
Site 10	300	327.87	1.93	1.93				
Site 11	320	14759.89	1.18	1.18				
Site 12	330	327.87	1.98	1.98				
Site 13	340	6340.17	14.92	14.92				
Site 14	370	327.87	10.05	10.05				
Site 15	390	327.87	1.28	1.28				
Site 16	410	327.87	7.30	7.30				
Site 17	430	1522.25	3.70	3.70				
Site 18	450	6868.53	4.92	4.92				
Site 19	460	3372.79	1.21	1.21				
Site 20	480	327.87	2.64	2.64				
Site 21	500	2278.80	2.42	2.42				
Site 22	510	5467.89	1.24	1.24				
Site 23	520	2979.82	1.93	1.93				
Site 24	530	12135.73	2.27	2.27				
Site 25	540	5467.89	2.39	2.39				
Site 26	550	5467.89	2.11	2.11				
Site 27	570	7710.59	2.58	2.58				
Site 28	600	327.87	1.93	1.93				
Site 29	610	27543.42	1.39	1.39				
Site 30	640	3160.48	4.94	4.94				

Site 31	650	1628.49	4.03	4.03				
Site 32	660	3520.89	4.91	4.91				
Site 33	670	1836.40	5.64	5.64				
Site 34	680	1628.49	2.60	2.60				
Site 35	700	4160.98	5.72	5.72				
Site 36	810	2979.82	2.40	2.40				
Site 37	830	1808.20	5.68	5.68				
Site 38	850	1628.49	4.44	4.44				
Site 39	900	1628.49	6.95	6.95				
Site 40	910	715.68	8.94	8.94				
Site 41	920	715.68	4.24	4.24				
Site 42	950	30002.16	2.16	2.16				
Site 43	960	8850.76	1.61	1.61				
Site 44	980	327.87	2.46	2.46				
Site 45	N/ A	1628.4 9	2.82	2.82				
Site 46	N/ A	2072.4 6	1.76	1.76				
Site 47	N/A	1628.49	1.43	1.43				
Notes:	The sites in this table are only available to supplies from Electricity North West Limited's Extra High Voltage network							

Unmetered Non-Half Hourly and Pseudo Half-Hourly Tariffs

3.9. Suppliers, who wish to supply electricity to customers where a non-half hourly unmetered Measurement Class B or pseudo half-hourly supply is provided will, adopt one of the charge structures in the table below.

Table 6 – Tariffs for NHH and Pseudo HH unmetered				
Description	LLFC	Red or Unrestricted unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)
NHH UMS	721	2.687		
LV UMS (Pseudo HH Metered)	811	16.470	2.901	1.589
Notes:	<p>The above charges do not include any meter administration fees for pseudo metering, required for the operation of the Balancing and Settlement Code, or any alternative agreement or Code, in accordance with the “Unmetered Supplies Procedure” – BSCP 520. Electricity North West Limited does not provide Meter Administrator Services.</p>			
	<p>Time Periods for Pseudo Half-Hourly Metered Supplies:</p> <p>Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays.</p> <p>Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday.</p> <p>Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and between 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday.</p> <p>All times are UK clock-time.</p>			

Use of System Charges Out of Area

3.10. Electricity North West Limited does not operate networks outside its Distribution Service Area.

Preserved/Additional LLFC Classes

3.11. The tables below list any preserved and additional tariffs that are valid at 1 April 2010.

Preserved tariffs are mapped to the charges for the relevant tariff and are closed to new customers. Customers on HV Medium Non Domestic will be moved to the HV HH Metered tariff (LLF 803) once a Half Hourly meter has been installed.

Table 7a – NHH Preserved Tariffs/Additional LLFC Classes					
Description	LLFC	Profile class	Fixed charge (p/MPAN/day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
HV Medium Non-domestic	483,753	5-8	205.38	0.672	0.042
Notes:	Unit time periods are as specified in the SSC.				
	HV Medium Non-Domestic - This tariff will be closed to new customers and all new HV connections will be required to be half-hourly metered.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				

3.12. Electricity North West Limited does not currently have any preserved/additional LLFCs registered as HH tariffs, so the following table is intentionally blank.

Table 7b – HH Preserved Tariffs/Additional LLFC Classes								
Description	LLFC	Fixed charge (p/MPAN /day)	Capacity charge (p/kVA/ day)	Excess capacity charge (p/kVA/ day)	Red unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVArh)

4. Generation Tariffs

4.1. Suppliers who wish to purchase electricity from distributed generators with NHH metered Measurement Class A MPANs or with HH metered Measurement Class C or E MPANs may, adopt this charge structure depending upon the metered voltage.

4.2. The tariffs in Table 8a apply to sites metered at HV or LV. The Site specific charges in Table 8b apply to sites metered at EHV.

Table 8a – Generation Tariffs							
Description	LLFC	Profile Class	Fixed Charge (p/MPAN/day)	Red or Unrestricted unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/KVArh)
Non-Half Hourly Tariffs							
LV Generation NHH	961	8	N/A	(0.848)			
LV Sub Generation NHH	962	8	N/A	(0.672)			
Half Hourly Tariffs							
LV Generation Intermittent	971		N/A	(0.848)			0.219
LV Generation Non-Intermittent	981		N/A	(8.176)	(0.894)	(0.135)	0.219
LV Sub Generation Intermittent	972		N/A	(0.672)			0.181
LV Sub Generation Non-Intermittent	982		N/A	(6.544)	(0.701)	(0.105)	0.181
HV Generation Intermittent	973		6.38	(0.409)			0.122
HV Generation Non-Intermittent	983		6.38	(4.115)	(0.410)	(0.059)	0.122
HV Sub Generation Intermittent	974		6.38	(0.268)			0.068

HV Sub Generation Non Intermittent	984		6.38	(2.817)	(0.255)	(0.035)	0.068
Notes:	The charges in brackets are negative charges.						
	<p>Time Periods</p> <p>Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays</p> <p>Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday</p> <p>Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and between 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday</p> <p>All times are UK clock-time.</p>						

4.3. The following charges are calculated using Electricity North West Limited EHV charging methodology and are applied on a site specific basis.

Table 8b – Site-Specific tariffs for HH metered EHV			
Description	LLFC	Profile Class	£ per annum per kW of Installed Generation Capacity
Site 1	270		3.00
Site 2	290		3.00
Notes:	Electricity North West Limited shall calculate a site-specific generation charge for each EHV connected generator. An EHV connected generator can expect to pay a value of between £3.00 and £23.92/kW per annum, depending on the extent of the reinforcement works required to connect it and his/her proportionate share of the reinforcement costs. The lower level is derived from the allowable Operation & Maintenance (O&M) value of £1.20/kW per annum and the fixed capacity allowance for distributed generation of £1.80/kW per annum. The upper level of £23.92/kW pa is derived from the cap of £240/kW (above which the connecting generator will be required to pay the cost of reinforcement in the form of connection charges), assuming 100% of the reinforcement costs below this cap are included in Generator Distribution Use of System.		

Preserved Generation tariffs

4.4. Electricity North West Limited does not currently have any preserved/additional LLFCs registered as HH tariffs, so the following table is intentionally blank.

Table 8c – Preserved Generation Tariffs							
Description	LLFC	Profile Class	Fixed Charge (p/MPAN /day)	Unrestricted or Red unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVArh)
Non-Half Hourly Tariffs							
Half Hourly Tariffs							

5. Licensed Distributor Network Operator (LDNO) tariffs

5.1. LDNO tariffs have been calculated for use by LDNOs **only** to reflect the displacement of the upstream DNO distribution costs and are not available for DNO to DNO inter-connectors, connections to other offshore transmission networks or other similar connections. Use of system charges for inter-connectors, offshore transmission connections or other similar connections will be based on the appropriate standard tariffs.

5.2. The tariff structure for embedded network operators will mirror the structure of the all-the-way-tariff and is dependent upon the voltage of connection, either LV or HV. The same tariff elements will apply as those match the LDNOs end customers tariffs.

LDNO LV Connections to DNO Network; Low Voltage Tariffs for Profile Classes 1 to 8

5.3. The following tariffs apply to the LDNOs whose connection to the distribution network is at LV.

Table 9 – LDNO LV Connections to DNO Network: Low Voltage Tariffs for Profile Classes 1 to 8					
Description	LLFC	Profile class	Fixed charge (p/MPAN /day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
Domestic Unrestricted	N/A	1	2.19	1.426	
Domestic Two-Rate	N/A	2	2.19	1.638	0.160
Domestic Off-Peak (Related MPAN)	N/A	2		0.163	
Small Non-Domestic Unrestricted	N/A	3	2.19	1.069	
Small Non-Domestic Two Rate	N/A	4	2.19	1.613	0.161
Small Non-Domestic Off Peak (Related MPAN)	N/A	4		0.163	
LV Medium Non-Domestic	N/A	5-8	14.63	0.921	0.086
Non-Half Hourly Unmetered	N/A	1&8		1.874	
LV Generation Non-Half Hourly	N/A	8		(0.848)	
Notes:	The charges in brackets are negative charges.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				

LDNO LV Connections to DNO Network: Low Voltage Tariffs for HH Metered Customers

5.4. The following tariffs apply to LDNOs whose connection to the distribution network is at LV.

Table 10 – LDNO LV Connections to DNO Network: Low Voltage Tariffs for HH Metered Customers								
Description	LLFC	Fixed charge (p/MPAN/day)	Capacity charge (p/kVA/day)	Excess capacity charge (p/kVA/day)	Red or Unrestricted unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVAh)
LV HH Metered	N/A	7.99	2.20	2.20	4.631	0.444	0.059	0.142
LV HH UMS (Pseudo HH Metered)	N/A				11.488	2.023	1.108	
LV Generation Intermittent	N/A				(0.848)			0.219
LV Generation Non-Intermittent	N/A				(8.176)	(0.894)	(0.135)	0.219
Notes:	Fixed charges are generally levied on a pence per MPAN basis. Where two or more half-hourly import MPANs are located at the same point of connection, only one daily fixed charge and capacity charge will be applied.							
	The charges in brackets are negative charges							
	<p>Time Periods:</p> <p>Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays.</p> <p>Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday</p> <p>Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and between 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday.</p> <p>All times are UK clock-time.</p>							

LDNO HV Connections to DNO Network: Low Voltage Tariffs for Profile Classes 1 to 8

5.5. The following tariffs apply to LDNOs whose connection to the distribution network is at HV.

Table 11 – LDNO HV Connections to DNO Network: Low Voltage Tariffs for Profile Classes 1 to 8					
Description	LLFC	Profile class	Fixed charge (p/MPAN/day)	Day or Unrestricted unit charge (p/kWh)	Night unit charge (p/kWh)
Domestic Unrestricted	N/A	1	1.41	0.915	
Domestic Two-Rate	N/A	2	1.41	1.051	0.103
Domestic Off-Peak (Related MPAN)	N/A	2		0.105	
Small Non-Domestic Unrestricted	N/A	3	1.41	0.686	
Small Non-Domestic Two Rate	N/A	4	1.41	1.035	0.103
Small Non-Domestic Off-Peak (Related MPAN)	N/A	4		0.105	
LV Medium Non-Domestic	N/A	5-8	9.39	0.591	0.055
NHH UMS	N/A	1&8		1.203	
LV Generation NHH	N/A	8		(0.848)	
LV Sub Generation NHH	N/A	8		(0.672)	
Notes:	The charges in brackets are negative charges.				
	Electricity North West Ltd uses a default tariff for invalid settlement combinations these will be charged at Domestic Unrestricted rate.				

LDNO HV connections to DNO network: High voltage tariffs for HH Metered Customers

5.6. The following tariffs apply to LDNOs whose connection to the distribution network is at HV.

Table 12 – LDNO HV Connections to DNO Network: Low Voltage and High Voltage Tariffs for HH Metered Customers								
Description	LLFC	Fixed charge (p/MPAN /day)	Capacity charge (p/kVA/ day)	Excess capacity charge (p/kVA/ day)	Red or Unrestricted unit charge (p/kWh)	Amber unit charge (p/kWh)	Green unit charge (p/kWh)	Excess reactive power charge (p/kVArh)
LV HH Metered	N/A	5.13	1.41	1.41	2.973	0.285	0.038	0.091
LV HH UMS (Pseudo HH Metered)	N/A				7.375	1.299	0.712	
LV Sub HH Metered	N/A	25.96	2.32	2.32	5.572	0.504	0.063	0.134
HV HH Metered	N/A	65.42	2.50	2.50	4.970	0.398	0.043	0.107
LV Generation Intermittent	N/A	N/A			(0.848)			0.219
LV Generation Non- Intermittent	N/A	N/A			(8.176)	(0.894)	(0.135)	0.219
LVS Generation Intermittent	N/A	N/A			(0.672)			0.181
LVS Generation Non- Intermittent	N/A	N/A			(6.544)	(0.701)	(0.105)	0.181
HV Generation Intermittent	N/A	N/A			(0.409)			0.122
HV Generation Non- Intermittent	N/A	N/A			(4.115)	(0.410)	(0.059)	0.122

Notes:	Fixed charges are generally levied on a pence per MPAN basis. Where two or more half-hourly import MPANs are located at the same point of connection, only one daily fixed charge and capacity charge will be applied.
	The charges in brackets are negative charges.
	<p>Time Periods:</p> <p>Unit charges in the red time band apply – between 16:30 and 18:30, Monday to Friday including Bank Holidays.</p> <p>Unit charges in the amber time band apply – between 09:00 and 16:30 and 18:30 to 20:30, Monday to Friday including Bank Holidays and between 16:30 and 18:30 Saturday and Sunday</p> <p>Unit charges in the green time band apply – between 00:00 and 09:00 and 20:30 and 24:00, Monday to Friday including Bank Holidays, and between 00:00 and 16:30 and between 18:30 and 24:00 Saturday and Sunday.</p> <p>All times are UK clock-time.</p>

6. System Loss Adjustment Factors

Role of Loss Adjustment Factors in the Supply of Electricity

- 6.1. Authorised Electricity Operators providing a supply of electricity from any entry point into Electricity North West Limited's electricity distribution network, including a generator entry point embedded in the network or a supply point from the transmission network, will be required to demonstrate that at all times the amount of electricity entering the network is sufficient to meet the supply in accordance with the following adjustment factors.
- 6.2. Adequate supply can be demonstrated either by membership of the Balancing and Settlement Code or by provision of metering information on the relevant supply and load(s). Table 14 indicates the factor by which supplies taken from the Grid Supply Point must exceed the take at the exit point from the network, varying according to the time of day, the season and the voltage of connection.
- 6.3. The treatment of electrical losses on our distribution system is regulated in accordance with the price control set out in the Licence. Suppliers should refer to the table of Loss Adjustment Factors (LAFs) to calculate the amount of electricity that they must provide. The same LAFs are reflected in the settlement system.
- 6.4. LAFs are calculated in accordance with BSCP 128. BSCP 128 determines the principles which DNOs must comply with when setting LAFs. Our methodology can be downloaded from the Elexon website www.elexon.co.uk.

Site Specific Loss Adjustment Factors

- 6.5. In accordance with BSCP 128, where a site is metered at EHV, account will be taken of the individual characteristics and location with regard to the real electrical flows on the network, including any losses on the connection into Electricity North West Limited's electricity distribution network. New EHV connections will be allocated a generic EHV loss factor from table 14, dependent on the voltage of connection.
- 6.6. Tables 15a and 15b indicates the factors by which supplies entering at the Grid Supply Point must exceed the take at the exit point from the system, varying according to the time of day, the season and the voltage of connection. The LAFs reflect the total losses on the company's system as attributable to the relevant voltages.
- 6.7. The Elexon website contains the LAFs in standard industry data format (D0265). Details can be found within the Market data – Static data at www.elexon.co.uk.

Table 13 – LAF time periods				
Time periods	Period 1 (Night)	Period 2 (Day)	Period 3 (Day Off Peak)	Period 4 (Day Peak)
Monday to Friday Mar to Oct	24:00 – 07:00	07:00 – 24:00		
Monday to Friday Nov to Feb	24:00 – 07:00		07:00 – 16:00 19:00 – 24:00	16:00 – 19:00
Saturday & Sunday All Year	24:00 – 07:00	07:00 – 24:00		
Notes	All the above times are in UK Clock time			

Table 14 – Metered voltage, respective periods and associated LLFCs Demand / Generation					
Metered Voltage	Period 1	Period 2	Period 3	Period 4	Associated LLFC Classes
Low Voltage Network	1.068	1.073	1.077	1.085	011, 031, 041, 051, 061, 081, 091, 131, 161, 171, 191, 241, 431, 441, 451, 481, 511, 531, 581, 591, 631, 661, 721, 751, 801, 811, 961, 971, 981,
Low Voltage Substation	1.042	1.044	1.046	1.048	242, 432, 482, 752, 802, 962, 972, 982,
High Voltage Network	1.028	1.032	1.033	1.036	483, 753, 803, 973, 983,
High Voltage Substation	1.021	1.022	1.023	1.025	804, 974, 984,
33kV Connected	1.016	1.017	1.018	1.020	
132kV to 33Kv Connected	1.011	1.012	1.013	1.014	
132kV Connected	1.006	1.008	1.008	1.009	

Table 15a – EHV Site Specific Demand

Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC Classes
Site 1	1.017	1.017	1.017	1.017	130
Site 2	1.000	1.000	1.000	1.000	140
Site 3	1.000	1.000	1.000	1.000	160
Site 4	1.000	1.000	1.000	1.000	180
Site 5	1.000	1.000	1.000	1.000	200
Site 6	1.000	1.000	1.000	1.000	220
Site 7	1.000	1.000	1.000	1.000	240
Site 8	1.000	1.000	1.000	1.000	260
Site 9	1.002	1.002	1.002	1.002	280
Site 10	0.888	0.888	0.888	0.888	300
Site 11	1.044	1.044	1.044	1.044	320
Site 12	0.925	0.925	0.925	0.925	330
Site 13	1.000	1.000	1.000	1.000	340
Site 14	1.000	1.000	1.000	1.000	370
Site 15	1.000	1.000	1.000	1.000	390
Site 16	1.000	1.000	1.000	1.000	410
Site 17	1.000	1.000	1.000	1.000	430
Site 18	1.014	1.014	1.014	1.014	450
Site 19	1.001	1.001	1.001	1.001	460
Site 20	1.008	1.008	1.008	1.008	480
Site 21	1.005	1.005	1.005	1.005	500
Site 22	1.023	1.023	1.023	1.023	510
Site 23	1.006	1.006	1.006	1.006	520
Site 24	1.021	1.021	1.021	1.021	530
Site 25	1.015	1.015	1.015	1.015	540
Site 26	1.039	1.039	1.039	1.039	550
Site 27	1.074	1.074	1.074	1.074	570

Site 28	1.006	1.006	1.006	1.006	600
Site 29	1.011	1.011	1.011	1.011	610
Site 30	1.042	1.042	1.042	1.042	640
Site 31	1.024	1.024	1.024	1.024	650
Site 32	1.154	1.154	1.154	1.154	660
Site 33	1.012	1.012	1.012	1.012	670
Site 34	1.015	1.015	1.015	1.015	680
Site 35	1.206	1.206	1.206	1.206	700
Site 36	1.008	1.008	1.008	1.008	810
Site 37	1.017	1.017	1.017	1.017	830
Site 38	1.034	1.034	1.034	1.034	850
Site 39	1.026	1.026	1.026	1.026	900
Site 40	1.011	1.011	1.011	1.011	910
Site 41	1.003	1.003	1.003	1.003	920
Site 42	1.009	1.009	1.009	1.009	950
Site 43	1.000	1.000	1.000	1.000	960
Site 44	1.000	1.000	1.000	1.000	980
Site 45	1.009	1.009	1.009	1.009	N/A
Site 46	1.011	1.011	1.011	1.011	N/A
Site 47	1.005	1.005	1.005	1.005	N/A

Table 15b – EHV Site Specific Generation

Site	Period 1	Period 2	Period 3	Period 4	Associated LLFC Classes
Site 1	0.971	0.971	0.971	0.971	270
Site 2	0.992	0.992	0.992	0.992	290

7. Electricity Distribution Rebates

7.1. Electricity North West Limited has neither given nor announced any distribution system rebates to authorised electricity operators in the 12 months preceding the date of publication of this revision of the statement.

8. Accounting and Administration Services

Administration Charge

8.1. Where a User has failed to settle a DUoS invoice or notify Electricity North West Limited of a bona fide dispute, in accordance with the Use of System agreement an account review charge of £50.00 may be made 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).

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

9.1. Electricity North West Limited does not have a schedule of charges for providing and installing any electrical plant at Entry Point or Exit Points.

10. Glossary of Terms

10.1. The following definitions are included to aid understanding:

Term	Definition
Customer	A person to whom a user proposes to supply, or for the time being supplies, electricity through an exit point, or from whom a user, or any relevant exempt supplier, is entitled to recover charges, compensation or an account of profits in respect of electricity supplied through an exit point
Distribution Licence	The Electricity Distribution Licence granted or treated as granted pursuant to section 6(1) of the Act.
Distribution Services Area	Has, in respect of each company, the meaning given to that term in paragraph 5(b) of Condition 2 of the Distribution Licence.
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.
Extra High Voltage	Voltages of 22kV and above
Entry Point	A boundary point at which electricity is exported onto a distribution system from a connected installation or from another distribution system, not forming part of the total system (boundary point and total system having the meaning given to those terms in the BSC).
Exit Point	A boundary point at which electricity is imported from 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)
High Voltage (HV)	Nominal voltages of at least 1kV and less than 22kV
High Voltage sub-station (HV Sub)	HV Sub applies to customers connected to the licensee's distribution system at a voltage of at least 1 kV and less than 22 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 22 kV and less than 66 kV, where the current transformer used for the customer's settlement metering or for metering used in the calculation of the customer's use of system charges or credits is located at the substation.
Intermittent Generation	Intermittent generation is defined as a generation plant where the energy source of the prime mover cannot be made available on demand, in accordance to the definitions in ER P2/6. These include wind, tidal, wave, photovoltaic and small hydro. The operator has little control over operating times therefore, a single-rate tariff (based on a uniform

	probability of operations across the year) will be applied to intermittent generation.
Low Voltage (LV)	Nominal voltages below 1kV
Low Voltage sub-station (LV Sub)	LV Sub applies to customers connected to the licensee's distribution system at a voltage of less than 1 kV at a substation with a primary voltage (the highest operating voltage present at the substation) of at least 1 kV and less than 22 kV, where the current transformer used for the customer's settlement metering is located at the substation.
Licensed Distributor Network Operator (LDNOs)	Licensed distribution network operator. This refers to an independent distribution network operator (IDNO) or to a distribution network operator (DNO) operating embedded distribution network outside its distribution service area.
Market Domain Data	Market Domain Data is the central repository of reference data used by Suppliers, Supplier Agents and Licensed Distribution System Operators (LDSOs) in the retail electricity market. It is essential to the operation of Supplier Volume Allocation (SVA) Trading Arrangements.
Measurement Class	The measurement class of a Metering System e.g. above 100kW, below 100kW, unmetered.
Metering System	Particular commissioned Metering Equipment installed for the purposes of measuring the quantities of Exports and Imports at the Boundary Point.
Non-intermittent Generation	Non-intermittent generation is defined as a generation plant where the energy source of the prime mover can be made available on demand, in accordance to the definitions in ER P2/6. The generator can choose when to operate, and bring more benefits to the network if it runs at times of high load. These include combined cycle gas turbine (CCGT), gas generators, landfill, sewage, biomass, biogas, energy crop, waste incineration and combined heat and power (CHP). A three-rate tariff will be applied to generation credits for half-hourly settled non-intermittent generation.
Ofgem	Office of gas and electricity markets - Ofgem is governed by GEMA and is responsible for the regulation of the distribution companies.
Use of System Charges	Charges for demand and generation customers which are connected to and utilising the distribution network.
User	Is a supplier, generator or distribution network operator

Version Control

Version	Date	Details	Author
1	March 2010	Final publication for 01 April 2010	P Hughes
2	October 2010	Final publication for 01 October 2010. Comments deleted relating to the derogation effective until 30 September 2010. EHV charges changed from pence/month to pence/day. EHV excess capacity charges based on month when excess occurred rather than highest value in a rolling twelve month period.	P Hughes
3	April 2011	Indicative Use of System Charges for 1 April 2011. Deleted note in Table 2 on limits on consumption of 100,000 kWh per annum. Amended the note on Table 2 to less than 60kVA Inserted a note on using a default tariff for invalid settlement combinations in Tables 1,2,3,7a, 9&11. Inserted Bullet point 2.5 for default tariff.	P Hughes
4	April 2011	Final Use of System Charges for 01 April 2011	R Garner
5	October 2011	Indicative Use of System charges from 1 st October 2011-06-21 LDNO tariffs and All The Way tariffs updated to reflect DCP071A Footnote added to table1 to explain LLFC 531	A Pace / P Hughes
6	October 2011	Final Use of System Charges for 01 October 2011	A Pace / P Hughes