

2024/25 Charging Statement

we are the **network**

60-day notice of 2024/25 Transportation charges

Introduction

This publication sets out the Local Distribution Zone (LDZ) transportation charges which apply from 1 April 2024, for the use of the Northern Gas Networks Limited (NGN) Distribution Network, as required by Standard Special Condition A4 of the Gas Transporters Licence. This document does not override or vary any of the statutory, Licence or Uniform Network Code obligations.

For more information on the charges contained within this document, please contact the NGN Pricing Manager via e-mail at <u>jschofield@northerngas.co.uk</u> or on 07711 774258.

1.1 Uniform Network Code

The Uniform Network Code (UNC) is supported by an integrated set of computer systems called UK Link. The charges and formulae in this Notice will be used in the calculation of charges within UK Link, which are definitive for billing purposes.

There are many areas of the UNC that impact upon the cost to shippers of using the transportation network. These are imbalance charges, scheduling charges, capacity over-runs and ratchet charges, top-up neutrality charges and contractual liability. Reference should be made to the UNC, as modified from time-to-time, for details of such charges and liabilities.

The methodologies underlying the charges are stated in the UNC Transportation Principal Document (TPD) Section Y Part B and may be subject to alteration under the governance of UNC Modification Rules.

All UNC documents and Modifications can be found on the Joint Office of Gas Transporters website www.gasgovernance.co.uk

1.2 Units

- Commodity charges are billed in pence per kilowatt hour
- Capacity charges are billed in pence per peak day kilowatt hour per day
- Fixed charges are billed in pence per day

1.3 Invoicing

Xoserve produce and issue the invoices that are derived from the transportation charges shown within this notice. To clarify the link between charging and invoicing, charge codes and invoice names are included in the tables. For more information on invoicing, please contact Xoserve directly at <u>Css.Billing@xoserve.com</u>.

1.4 Summary of the Transportation Charges

The maximum amount of revenue that can be earned from the transportation of gas is derived from the price control formula set by Ofgem, the industry regulator. The charges outlined in this document are based on this capped amount.

The LDZ price change for 2024/25 is an increase of 11.8%. This is based on a 1.7% decrease in allowed revenue, excluding revenue associated with the Supplier of Last Resort (SOLR) process. In addition, decreased capacity predictions of 11.9% and a 1.6% under-recovery has resulted in increased unit charges.

The Exit Capacity price change for 2024/25 is a reduction of 21.9%. This is based on a 30.6% reduction in allowed revenue, combined with the decreased capacity of 11.9% and -3.2% of prior year recovery movements.

1.5 Year on Year Movements in Transportation Revenue

The table below illustrates the annual movement in NGN's revenue allowance. These movements are broken down into distribution network (LDZ) specific and exit capacity related allowance changes. The impact of the Supplier of Last Resort (SOLR) process is also split out to provide transparency.

- NGN's total revenue allowance has decreased by £45.2m year on year:
 - LDZ specific charges, which relate to costs associated with transporting gas through the distribution network, have decreased by £8.6m.
 - Exit charges and the associated revenue has dropped by £11.5m
 - Supplier of Last Resort (SOLR) claims have fallen by £25.1m as the effects of this have now almost completed.

The allowances outlined below are based on the Price Control Financial Model (PCFM) published by Ofgem on 10 January 2024. If Northern Gas Networks collect more or less than their agreed revenue allowance, this over or under collection is adjusted in the following regulatory year's revenue.

YOY Movements (Nominal)	LDZ	·	Exit		SO	LR	Total
TOT MOVEMENTS (Normal)	£m	%	£m	%	£m	%	£m
23/24 Allowed Revenue (nominal)	505.2		37.6		25.9		568.7
Inflation true up (22/23)	(18.6)	(4%)					(18.6) *
Inflation true up (23/24)	3.4	1%					3.4
Inflation growth 24/25 @ 3.1%	15.2	3%					15.2
Total Inflation	(0.0)	(O%)					(0.0)
Shrinkage	(45.3)	(9%)					(45.3)
NGT Exit rates			(11.5)	(31%)			(11.5)
Tax	(11.1)	(2%)					(11.1)
Real price effects	(5.1)	(1%)					(5.1)
Other changes	2.4	0%	(0.0)	(0%)			2.4
Pension	4.0	1%					4.0
Business Rates	4.9	1%					4.9
Cost of Equity	5.5	1%					5.5
Cost of Debt	0.9	0%					0.9
VCMA	6.7	1%					6.7
Totex changes	28.5	6%					28.5
Reduction in claims					(25.1)	(97%)	(25.1)
24/25 Allowed Revenue (nominal)	496.6	(1.7%)	26.1	(30.6%)	0.8	(97%)	523.5
YOY £ movement	(8.6)		(11.5)		(25.1)		(45.2)
Price Change Breakdown							
Year on year AR % movement	(1.7%)		(30.6%)				
Prior year under/(over) recovery	1.6%		(3.2%)				
23/24 forecast SOQ impact	11.9%		11.9%				
Overall Price Change	11.8%		(21.9%)				

* 22/23 was included in 23/24 prices so is backed out of the increase from 23/24 to 24/25

Most significant year on year changes:

Shrinkage: -£45.3m

Allowances have been calculated based on the latest prices available, below is a table summarising forecast prices for this year and last:

Year	Pricing 2024/25 £/therm	Pricing 2023/24 £/therm
22/23	1.75	2.19
23/24	1.00	3.03
24/25	1.25	2.24
25/26	1.10	1.59

The 24/25 allowances include a -£26.5m true up relating to the 23/24 prices.

NGT Exit Rates: -11.5m:

Due to National Gas Transmission (NGT) over collecting in 22/23, Exit prices are falling from 1 October 2023 so this will be passed onto the customers in our 24/25 prices.

Tax: -£11.1m

As announced in the spring budget in March 2023:

- From 01 April 2023 there was a change in capital allowances for plant and machinery, whereby spend between 01 April 2023 and 1 April 2026, can apply a full-expensing model for main rate expenditure; and a 50% first year allowance on the special rate expenditure.
- The previous temporary super-deductions were expected to cease on 01 April 2023. Both initiatives result in a reduction in tax charges and as a result, allowances.

Real Price Effects: -£5.1m

Ofgem have updated the indices used to account for real price effects. These are applied to the expenditure allowances on certain categories of expenditure, which experience inflationary pressures which are not aligned to CPIH.

Business Rates: +£4.9m

During 2023/24 there was a freeze in the Uniform Business Rates (UBR), at the 2021/22 rate of 51.2p, this has not been continued into 24/25 therefore there has been a rise in business rates for 2024/25.

Pension Deficit: +£4.0m

NGN allowances from 23/24 to 25/26 include revenue allowances to cover additional costs that will be paid to further de-risk the scheme.

Cost of Equity: +£5.5m

Ofgem has updated all networks' cost of equity allowance, to account for the latest view of yields on UK government securities. This is calculated by taking a snapshot of performance in October each year.

VCMA (Vulnerability and Carbon-Monoxide Allowance): +£6.7m

Ofgem has allowed additional funds to be allocated for spend to protect the most vulnerable communities in our region.

Totex Changes: + £28.5m

This is an amalgamation of several factors resulting in a higher allowance in relative terms:

- Outperformance of Totex allowances in 21/22, which was returned to customers during 23/24 via the Totex sharing mechanism suppressing the revenue allowance last year.
- The level of out-performance in 22/23 was not as marked as 21/22 so there is less to return to customers.
- We are currently forecasting to spend more than the in-year allowances for the remainder of GD2.

Supplier of Last Resort Claims: -£25.1m

During the 2021/22 regulatory year, twenty-four gas suppliers, with their customers on NGN's network, undertook the insolvency process, due to the surge in wholesale gas prices seen in global markets. To ensure that the former customers of those insolvent suppliers continued to receive natural gas, Ofgem appointed eight suppliers to act as the Supplier of Last Resort.

The Supplier of Last Resort process allowed these eight suppliers to submit a claim to Ofgem to recover the costs they incurred from performing these statutory duties. Ofgem have approved final claims totalling £26m for 2023/24 regulatory year, which is a reduction on the £95.9m allowed in 2022/23.

The final part of this claim is small true-up of £0.8m which was approved by Ofgem on 15 December 2023 and is to be collected in the 24/25 regulatory year.

Historical Inflation and Forecast Growth Assumptions:

Distribution networks calculate their annual revenue allowance entitlement in a standardised price base. In GD2 this is 2018/19 prices. This approach allows distribution networks and the regulator to distinguish between annual changes in revenue linked to carrying out the transportation service, and the level of inflation.

NGN's charges are published on a revenue allowance which has been uplifted to a nominal price basis. Historical actual CPIH published until June 2023 is used to convert from a 2018/19 price base to nominal. An inflationary forecast published by the Office for Budget Responsibility (OBR) is used for the months following June 2023, all of which are updated by Ofgem as part of the Annual Iteration Process.

The current forecast inflation rate for 23/24 is 6.25%, compared to last year's forecast for the same period of 5.20%.

24/25 forecast growth rate is 3.05%.

Other Factors Impacting 2024/25 Unit Rates

New Load Factors

Load factors are the relationship between Annual Quantities (AQ) and peak day demand (SOQ). The method of collecting income is linked to peak day demand. Consequently, it is a critical measure in the accuracy of any price change needed.

When new load factors are implemented every October, any non-daily metered supply point will have a new Supply Offtake Quantity (SOQ) calculated based on the latest load factor available.

December 2023 Capacity Snapshot

Each December Xoserve provides a snapshot of capacity data which will be used in the following regulatory year on meter points that use a fixed charging capacity basis (largely domestic). This snapshot has shown a significant drop in domestic Annual Quantities and peak day requirements. We have assumed a 11.9% reduction in peak day capacity levels to calculate the price points for the regulatory year 2024/25.

1.6 Theft of gas

The licencing regime places incentives on transporters, shippers, and suppliers to act in respect of suspected theft of gas. Costs related to the Reasonable Endeavours Scheme operated by transporters are recovered through transportation charges with the transporter remaining neutral to these costs.

1.7 Capacity Charging Assumptions

Our price change includes an assumption that capacity levels will reduce by -**11.9%** from April 2024; based on data provided by Xoserve in December 2023. As capacity is forecast to reduce by -11.9%, the price change includes a compensating increase of **+11.9%** to ensure NGN collects the required Allowed Revenue figure for 2024/25.

1.8 SOQ data

As requested by shippers, please see below the directly connected SOQ data used as a basis for our calculations, as supplied by Xoserve on 13 December 2023. Please note this data does not include CSEP's and unique sites.

	Fixed AQ	Fixed SOQ	Rolling AQ	Rolling SOQ
01 0 - 2500 73.2	33,742,254,993	272,638,682	28,889,823,527	234,284,224
02 2500 - 5000 146.5	1,348,001,397	9,947,450	1,332,825,967	9,806,685
03 5000 - 10000 293.1	1,458,452,495	11,060,588	1,402,775,136	10,434,395
04 10000 - 15000 439.6	948,843,917	7,282,651	908,872,908	6,893,557
05 15000 - 20000 586.1	635,142,557	4,699,169	616,691,149	4,573,285
06 20000 - 25000 732.7	463,464,372	3,498,180	440,648,523	3,279,042
07 25000 - 75000 2198	2,175,264,015	15,985,306	2,085,330,880	16,147,713
08 75000 - 100000 2931	410,720,171	2,753,398	390,459,323	2,669,895
09 100000 - 200000 5861	1,208,299,525	7,364,064	1,181,530,737	8,330,405
10 200000 - 500000 14654	1,497,879,302	7,845,669	1,748,782,372	10,466,237
11 500000 - 1000000 29307	1,539,157,316	6,524,006	1,818,646,914	14,463,638
12 1.0m - 2.0m 58614	1,046,560,754	4,253,448	2,311,972,449	13,383,682
13 2.0m - 10.0m 293071	52,226,866	231,533	6,444,628,642	34,862,054
14 10.0m - 50.0m 1465355	0	0	1,696,861,168	8,379,122
Total	46,526,267,680	354,084,144	51,269,849,695	377,973,934

Transportation Charges

Distribution revenue recovery is split between LDZ system charges and customer charges. LDZ system charges are made up of capacity and commodity charges. Customer charges are capacity based, although certain supply points receive a fixed charge in addition to a variable capacity-based charge. All transportation is provided on a firm basis only.

2.1 LDZ System Charges

The standard LDZ system charges comprise capacity and commodity charges, with the same rates and functions for directly connected supply points and connected system exit points (CSEPs).

Where LDZ charges are based on functions, these functions use Supply Point Offtake Quantity (SOQ) in the determination of the charges. At Daily Metered (DM) supply points the SOQ is the registered supply point capacity. For Non-Daily Metered (NDM) supply points, the SOQ is calculated using the supply point End User Category (EUC) and the appropriate load factor.

2.1.1 Directly Connected Supply Points

The unit charges and charging functions used to calculate system charges to directly connected supply points are as follows:

Charge type	LDZ Capacity	LDZ Commodity
Charge code	ZCA	ZCO
Unit rate	Pence per peak day kWh per day	Pence per kWh
Up to 73,200 kWh p.a.	0.2850	0.0450
73,200 to 732,000 kWh p.a.	0.2449	0.0385
732,000 kWh and above p.a.	2.8739 X SOQ ^ -0.2834	0.4941 X SOQ ^ -0.2940
Subject to a minimum rate of	0.0073	0.0013
Minimum reached at SOQ of	1,436,130,960	595,762,461

2.1.2 Connected System Exit Points

In the calculation of LDZ charges payable, the unit rate commodity and capacity charges are based on the supply point capacity equal to the CSEP peak day load for the completed development irrespective of the actual stage of development. The SOQ used is therefore the estimated SOQ for the completed development as provided in the appropriate Network Exit Agreement (NExA). For any CSEP, each shipper will pay identical LDZ unit charges regardless of the proportion of gas shipped. Reference needs to be made to the relevant NExA or CSEP ancillary agreement to determine the completed supply point capacity. The unit charges and charging functions used to calculate charges to CSEPs are as follows:

Charge type	LDZ Capacity	LDZ Commodity
Charge code	891	893
Unit rate	Pence per peak day kWh per day	Pence per kWh
Up to 73,200 kWh p.a.	0.2850	0.0450
73,200 to 732,000 kWh p.a.	0.2449	0.0385
732,000 kWh and above p.a.	2.8739 X SOQ ^ -0.2834	0.4941 X SOQ ^ -0.2940
Subject to a minimum rate of	0.0073	0.0013
Minimum reached at SOQ of	1,436,130,960	595,762,461

2.1.3 Optional LDZ Charge

The optional LDZ tariff is available, as a single charge, as an alternative to the standard LDZ system charges. The rationale for this tariff is that, for large LDZ loads located close to the NTS, the standard tariff can appear to give perverse economic incentives for the construction of new pipelines when LDZ connections are already available. This tariff may be attractive to large loads located close to the NTS, but it is strongly advisable to contact the NGN Pricing Manager on 07711 774258 or by email at jschofield@northerngas.co.uk prior to opting for this tariff.

Invoice	Charge Code
ADU	881

Pence per peak day kWh per day
902 x [(SOQ) ^{^-0.834}] x D + 772 x (SOQ) ^{^-0.717}

Where SOQ is the registered supply point capacity and D is the direct distance, in km, from the site boundary to the nearest point on the NTS.

2.2 LDZ Customer Charges

For supply points with an Annual Quantity (AQ) of less than 73,200 kWh per annum, the customer charge is a capacity charge.

For supply points with an AQ of between 73,200 and 732,000 kWh per annum, the customer charge is made up of a fixed charge which depends on the frequency of meter reading, plus a capacity charge based on the registered SOQ.

For supply points with an AQ of greater than 732,000 kWh per annum, the customer charge is based on a function related to the registered SOQ.

2.2.1 Directly Connected Supply Points

The unit charges and charging functions used to calculate customer charges to directly connected supply points are as follows:

Charge type	LDZ Capacity		
Charge code	CCA		
Unit rate	Pence per peak day kWh per day		
Up to 73,200 kWh p.a.	0.1522		
73,200 to 732,000 kWh p.a.	0.0054		
732,000 kWh and above p.a.	0.1162 X SOQ ^ -0.2100		

In addition to the above, the following fixed charge applies to supply points with an AQ of between 73,200 and 732,000 kWh:

Charge type	LDZ Capacity
Charge code	CFI
Unit rate	Pence per day
Non-monthly read supply points	47.8109
Monthly read supply points	50.9075

2.3 Exit Capacity NTS Charges (ECN)

The LDZ ECN charge is based on system capacity. It is applied to each exit zone on an administered peak day basis, a breakdown of the calculation methodology is outlined in the Appendix. The exit zone for a DN supply point is determined by its postcode.

Please note whilst Mod678A has been implemented which results in a consistent unit rate charged from NTS to networks, unit rates below include the effect of the 2-year lag true up mechanism from RIIO-GD1. NGN would also incur different cost levels per exit zone dependant on the level of capacity booked.

Charge type	LDZ Exit Capacity
Charge code - directly connected supply points/CSEPs	ECN/C04
Unit rate	Pence per peak day kWh per day
NE1	0.0160
NE2	0.0161
NE3	0.0161
NO1	0.0159
NO2	0.0150

2.4 Supplier of Last Resort charge

The Supplier of Last Resort charge is based on system capacity. In 2024/25, this charge will apply to all domestic directly connected and Independent Gas Transporter domestic customers.

Charge type	Supplier of last resort
Charge code	INR/LRD
Unit rate	Pence per peak day kWh
Domestic sites (Direct Connects and CSEP's customers)	0.0009

2.5 DN Entry Charges

The LDZ System Entry Commodity rates reflect the operating costs associated with the entry of gas into the distribution network. It also reflects the benefits from not using the distribution network from point of entry to the offtake. The rate associated with the LDZ system Entry Commodity Charge is calculated on a site-by-site basis.

The table below shows sites that are currently expected to be live in during 2024/25, for sites that become live during 2024/25, unit rates will be calculated accordingly and an Xoserve notification made so the shipper gets charged correctly. Please contact the NGN pricing manager on 07711 774258 or by email at jschofield@northerngas.co.uk if rates are needed prior to the go live date.

	Charge Type		LDZ System Entry Commodity	
Xoserve	Charge Code		LEC	
Site name	Site Name	Date Connected	Pence per kWh	Unit Rate: Charge or Credit
HOWDOS	Howdon	10/12/2014	(0.0445)	Credit
FOOTOS	Teeside	19/09/2015	(0.0022)	Credit
LEEMOS	Leeming	25/06/2015	(0.0332)	Credit
ASPAOS	Cumbria	25/05/2016	0.0042	Charge
RIDGOS	Ridge Road Sherburn in Elmet	19/03/2016	0.0366	Charge
SHEROS	Agri Sherburn in Elmet	17/03/2016	(0.0290)	Credit
GRAVOS	Gravel Pit	31/03/2016	0.0008	Charge
NEWTOS	Emerald Biogas	23/03/2016	(0.0720)	Credit
BURTOS	Burton Agnes	22/03/2016	0.0427	Charge
LANEOS	Lanes Farm	14/10/2019	(0.0546)	Credit
SPALOS	Spaldington	23/10/2019	0.0227	Charge
BRANOS	Bran Sands	19/12/2019	(0.0551)	Credit
WARDOS	Wardley	23/12/2019	0.0019	Charge
PARKOS	Park Farm	18/12/2019	(0.0428)	Credit
PLAXOS	Plaxton Bridge	27/01/2020	0.0829	Charge
HEDLOS	High Hedley	29/01/2020	0.1145	Charge
MILLOS	Mill Nurseries	13/12/2016	n/a	n/a
CRAMOS	Cramlington	30/03/2022	0.1653	Charge
DRIFIOS	Driffield	04/05/2022	(0.0496)	Credit

* No flow expected in 24-25

2.6 Charging examples:

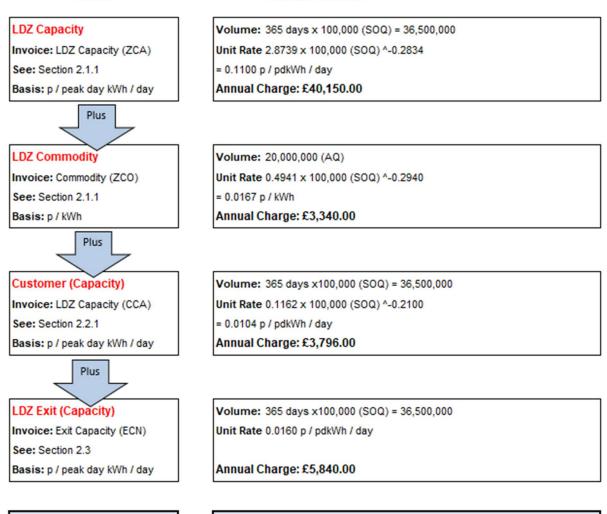
Below are several examples of various annual charges for different types of supply point.

Example A

A shipper has a daily metered customer in the NE1 Exit Zone with an annual consumption (AQ) of 20,000,000 kWh and a registered supply point capacity (SOQ), booked directly by the shipper, of 100,000 kWh per day.

Process

Calculations Used



Total Annual Charge

Total annual charge = £53,126.00

Example B(i) - Non prepayment domestic customer with average energy usage

A shipper has a non prepayment domestic customer and the load has an AQ of 14,000 kWh per annum. Using the appropriate small NDM supply points load factors, it can be seen that the load factor for such a site in the NE1 Exit Zone is 32.8%. The peak daily load (SOQ) is therefore $14,000 \div (366 \times 0.328) = 117$ kWh.

Process		Calculations Used	
LDZ Capacity	Volume:	365 days x 117 (SOQ) = 42,705	
Invoice: LDZ Capacity (ZCA)	Unit Rate:	0.2850 p / pdkWh / day	
See: Section 2.1.1			
Basis: p / peak day kWh / day	Annual Charge: £121.71		
Plus			
LDZ Commodity	Volume:	14,000 (AQ)	
Invoice: Commodity (ZCO)	Unit Rate:	0.0450 p / KWh	
See: Section 2.2.1			
Basis: p/kWh	Annual Cha	rge: £6.30	
Plus			
Customer (Capacity)	Volume:	365 days x 117 (SOQ) = 42,705	
Invoice: LDZ Capacity (CCA)	Unit Rate:	0.1522 p / pdkWh / day	
See: Section 2.2.1			
Basis : p/peak day kWh/day	Annual Charge: £65.00		
	1		
LDZ Specific Annual charge	LDZ annual charge = £193.01		
Plus			
LDZ Exit (Capacity)	Volume:	365 days x 117 (SOQ) = 42,705	
Invoice: Exit Capacity (ECN)	Unit Rate:	0.0160 p / pdkWh / day	
See: Section 2.3			
Basis: p/peakdaykWh/day	Annual Cha	rge: £6.83	
Plus			
Supplier of Last Resort charge (Capacity)	Volume:	365 days x 117 (SOQ) = 42,705	
Invoice: INB/LRD	Unit Rate:	0.0009 p / pdkWh / day	
See: Section 2.4			
Basis: p/peakdaykWh/day	Annual Cha	rge: £0.38	
	1		
Total Annual Charge		Total annual charge = £200.22	

Example B(ii) - Non prepayment domestic customer with high energy usage

A shipper has a non prepayment domestic customer and the load has an AQ of 20,000 kWh per annum. Using the appropriate small NDM supply points load factors, it can be seen that the load factor for such a site in the NE1 Exit Zone is 32.8%. The peak daily load (SOQ) is therefore $20,000 \div (366 \times 0.328) = 167$ kWh.

Process		Calculations Used	
LDZ Capacity	Volume:	365 days x 167 (SOQ) = 60,955	
Invoice: LDZ Capacity (ZCA)	Unit Rate:	0.2850 p / pdkWh / day	
See: Section 2.1.1			
Basis: p/peakdaykWh/day	Annual Charge: £173.72		
Plu			
LDZ Commodity	Volume:	20,000 (AQ)	
Invoice: Commodity (ZCO)	Unit Rate:	0.0450 p / KWh	
See: Section 2.2.1			
Basis: p/kWh	Annual Cha	rge: £9.00	
Plu			
Customer (Capacity)	Volume:	365 days x 167 (SOQ) = 60,955	
Invoice: LDZ Capacity (CCA)	Unit Rate:	0.1522 p / pdkWh / day	
See: Section 2.2.1			
Basis: p/peakdaykWh/day	Annual Charge: £92.77		
LDZ Specific Annual charge	LDZ annual charge = £275.49		
Plu			
LDZ Exit (Capacity)	Volume:	365 days x 167 (SOQ) = 60,955	
Invoice: Exit Capacity (ECN)	Unit Rate:	0.0160 p / pdkWh / day	
See: Section 2.3			
Basis: p/peakdaykWh/day	Annual Cha	rge: £9.75	
Plu			
Supplier of Last Resort charge (Capacity)	Volume:	365 days x 167 (SOQ) = 60,955	
Supplier of Last Resort charge (Capacity) Invoice: INR/LRD	Volume: Unit Rate:	365 days x 167 (SOQ) = 60,955 0.0009 p / pdkWh / day	
		• 8 22 3	
Invoice: INR/LRD		0.0009 p / pdkWh / day	
Invoice: INR/LRD See: Section 2.4	Unit Rate:	0.0009 p / pdkWh / day	

Example C

Suppose that instead of supplying just one non prepayment domestic customer (as in Example B) the shipper actually supplies a connected system in the NE1 Exit Zone presently comprising 100 domestic customers and the completed connected system will comprise 150 domestic premises. Suppose that each of these premises has the same AQ of 20,000 kWh per annum.

	AQ (no of premises x AQ per premise)	SOQ (AQ / (366 x load factor)
Prevailing	100 houses x 20,000 (AQ) = 2,000,000 kWh	2,000,000 ÷ (365 × 0.328) = 16,706 kWh
Maximum	150 houses x 20,000 (AQ) = 3,000,000 kWh	3,000,000 ÷ (365 × 0.328) = 25,058 kWh

Note that the prevailing annual and peak day loads of the connected system in effect would change over the year however, for simplicity, these have been assumed as constant in this example.

Calculations Used

Process

LDZ Capacity

LDZ Commodity Invoice: ADC (893) See: Section 2.1.2 Basis: p / kWh

Volume: 365 days x 16,706 (pre SOQ) = 6,097,690 Invoice: ADC (891) Unit Rate: 2.8739 x 25,058 (max SOQ) ^-0.2834 See: Section 2.1.2 = 0.1629 p / pdkWh / day Basis: p / peak day kWh / day Annual Charge: £9,933.14 Plus

	Volume:	2,000,000 (pre AQ)	
	Unit Rate:	0.4941 x 25,058 (max SOQ) ^-0.294	
	= 0.0251 p / KWh		
Annual Charge: £502.00			

Volume:	365 days x 16,706 (SOQ) = 6,097,690
Unit Rate:	0.0160 p / pdkWh / day

Annual Charge: £975.63

Total Annual Charge

Plus

Invoice: Exit Capacity (ECN)

Basis: p / peak day kWh / day

LDZ Exit (Capacity)

See: Section 2.3

Total annual charge = £11,410.77

End User Categories

Estimation of peak daily load for NDM supply points.

For NDM supply points, the peak daily load is estimated using a set of End User Categories (EUC). Each NDM supply point is allocated to an EUC. In each LDZ each EUC has an associated load factor. A full list of Winter Annual Ratio (WAR) bands and EUC load factors can be found below and on the Xoserve SharePoint site. The examples that follow use the data from the 24/25 tables.

These EUCs depend upon the annual quantity (AQ) of the supply point and, in the case of monthly read sites, the ratio of winter to annual consumption where available.

Monthly read sites

It is mandatory for supply points with an annual consumption greater than 293 MWh to be monthly read, however, at the shipper's request, sites below this consumption may also be classified as monthly read.

For monthly read sites where the relevant meter reading history is available, the WAR ratio is the consumption from December to March divided by the annual quantity. If the required meter reading information is not available, the supply point is allocated to a EUC simply based on its annual quantity.

The peak load for an NDM supply point may then be calculated as:

Example

For a supply point in North East (NE) LDZ with an annual consumption of 1,000 MWh per annum.

Assume consumption December to March inclusive is 500 MWh.

WAR ratio = 500 ÷ 1000 = 0.5

For a site with an annual consumption of 1,000 MWh, a ratio of 0.5 falls within WAR ratio band W03 and the site is thus within End User Category NE: E2304W03.

For a site in this category, the load factor is 32.8% and the peak daily load is therefore:

1000 x 100 365 x 32.8 = 8.35 MWh

If the required meter reading information is not available to calculate the winter: annual ratio, the supply point is allocated to a EUC simply based on its annual quantity, in this case NE: E2304B.

For a site in this category, the load factor is 36.6% and the peak daily load is therefore:

1000 x 100 365 x 36.6 = 7.49 MWh

Six monthly read sites

In the case of six monthly read sites, the supply point is allocated to a EUC simply based on its annual quantity.

Example

For a non-prepayment supply point in NE LDZ with an annual consumption of 200 MWh per annum, the EUC will be NE: E2302BNI. For a site in this category, the load factor is 36.2% and the peak daily load is therefore

200 x 100 = 1.51 MWh 365 x 36.2

Notes

The term LDZ is applied in the context of its usage with reference to the UNC daily balancing regime.

For supply points whose consumption is over 73,200 kWh and which include one or more NDM supply meter points, an end user category code can be found in the supply point offer generated by UK Link. This code may be correlated with the end user category code shown below by means of a lookup table issued separately to shippers. Copies are available from the Xoserve Supply Point Administration Management team by emailing <u>externalrequests.spa@xoserve.com</u>

Daily metered supply points

The SOQ of DM sites is known, and hence no-load factor is required.

Supply points with annual consumptions greater than 58,600 MWh should be daily metered. However, a handful of sites remain as non-daily metered because of difficulties installing the daily read equipment. In such cases the end user category code XX:E2309B is used. Firm supply points with an AQ above 73.2 MWh per annum may, at the shipper's request, be classified as daily metered. All interruptible supply points are daily metered.

Consultation on end user categories

Section H of the UNC requires the transporter to publish, by the end of June each year, its demand estimation proposals for the forthcoming supply year. These proposals comprise end user category definitions, NDM profiling parameters (ALPs and DAFs), and capacity estimation parameters (EUC load factors). Analysis is presented to users and consults with the Demand Estimation Sub-Committee (a sub-committee of the UNC) before publication of its proposals Table 2.1 Definition of end user categories.

WAR Bands

The latest set of data from October 2023 can be found below:

EUC code	Site upage		Winter annual ratios (WAR)			
EOC Code	Site usage		W01	W02	W03	W04
E2301BND	Up to 73,200 KWh p.a.		-	-	-	-
E2301BNI	Up to 73,200 KWh p.a.		-	-	-	-
E2301BPD	Up to 73,200 KWh p.a.		-	-	-	-
E2301BPI	Up to 73,200 KWh p.a.		-	-	-	-
E2302BND	73,201 to 293,000 KWh p.a.		-	-	-	-
E2302BNI	73,201 to 293,000 KWh p.a.	U I	-	-	-	-
E2302BPD	73,201 to 293,000 KWh p.a.	ector	-	-	-	-
E2302BPI	73,201 to 293,000 KWh p.a.	S	-	-	-	-
E2303B	293,001 to 732,000 KWh p.a.	MON	-	-	-	-
E2303W0y	293,001 to 732,000 KWh p.a.	z	0.000 - 0.418	0.419 - 0.490	0.491 - 0.593	0.594 - 1.000
E2304B	732,001 to 2,196,000 KWh p.a.	Small	-	-	-	-
E2304W0y	732,001 to 2,196,000 KWh p.a.	S	0.000 - 0.416	0.417 - 0.486	0.487 - 0.584	0.585 - 1.000
E2305B	2,196,001 to 5,860,000 KWh p.a.		-	-	-	-
E2305W0y	2,196,001 to 5,860,000 KWh p.a.		0.000 - 0.358	0.359 - 0.444	0.445 - 0.525	0.526 - 1.000
E2306B	5,860,001 to 14,650,000 KWh p.a.	5	-	-	-	-
E2306W0y	5,860,001 to 14,650,000 KWh p.a.	ector	0.000 - 0.328	0.329 - 0.409	0.410 - 0.506	0.507 - 1.000
E2307B	14,650,001 to 29,300,000 KWh p.a.	S	-	-	-	-
E2307W0y	14,650,001 to 29,300,000 KWh p.a.	MON	0.000 - 0.328	0.329 - 0.409	0.410 - 0.506	0.507 - 1.000
E2308B	29,300,001 to 58,600,000 KWh p.a.	Z	-	-	-	-
E2308W0y	29,300,001 to 58,600,000 KWh p.a.	arge	0.000 - 0.328	0.329 - 0.409	0.410 - 0.506	0.507 - 1.000
E2309B	>= 58,600,001 KWh p.a.	La	-	-	-	-

End User Categories

The latest set of data from October 2023 can be found below:

Load Factors		
from Oct 2023	NE	NO
E2301BND	32.80%	35.00%
E2301BNI	31.70%	33.00%
E2301BPD	34.50%	36.40%
E2301BPI	31.70%	33.00%
E2302BND	37.30%	39.80%
E2302BNI	36.20%	37.90%
E2302BPD	34.50%	36.40%
E2302BPI	36.20%	37.90%
E2303B	36.40%	39.60%
E2303W01	62.60%	62.70%
E2303W02	46.00%	44.50%
E2303W03	32.30%	32.20%
E2303W04	23.40%	24.40%
E2304B	36.60%	39.10%
E2304W01	59.70%	60.10%
E2304W02	45.40%	44.10%
E2304W03	32.80%	32.50%
E2304W04	23.80%	24.20%
E2305B	42.30%	41.80%
E2305W01	63.00%	63.30%
E2305W02	48.90%	50.80%
E2305W03	40.00%	41.70%
E2305W04	25.80%	26.90%
E2306B	57.50%	51.10%
E2306W01	74.50%	70.20%
E2306W02	60.30%	60.70%
E2306W03	43.70%	47.10%
E2306W04	30.40%	31.10%
E2307B	66.70%	66.40%
E2307W01	76.60%	75.10%
E2307W02	69.30%	68.80%
E2307W03	55.20%	56.00%
E2307W04	34.50%	35.50%
E2308B	66.70%	66.40%
E2308W01	76.60%	75.10%
E2308W02	69.30%	68.80%
E2308W03	55.20%	56.00%
E2308W04	34.50%	35.50%
E2309B	66.70%	66.40%

Exit Capacity Unit Rates (ECN) – Charging methodology

Exit Capacity unit rates are set to recover the costs. Networks receive an allowance to match the cost as it is deemed non controllable and a "pass through" area. During GD2 networks use a rolling revenue process and include the most recent forecast of exit costs as part of the Annual Iteration Process each November, this is applied in the following year's charges.

The key components are:

- Calculated ECN base allowance. This is a forecast of exit costs based on the most recent rate published by National Grid and our capacity bookings
- A true up of the difference between actual costs and the previous year's base allowance figure
- K factor which represents the prior year's difference between allowed and collected revenue

When setting ECN rates, NGN seeks to recover their allowed revenue as calculated above which may include true ups to adjust for prior year cost differences, rather than solely costs for the year. For this reason, the ECN rate charged will not match the NTS postage stamp unit rate in the same year.

ECN unit rates are calculated by exit zone:

- A cost per exit zone is calculated based on booking amounts by exit zone
- Allowed revenue is then calculated by exit zone by apportioning the revenue allowance on the same basis as the booking allocation amounts
- The latest demand snapshot of each site's SOQ is used to derive our unit rates

The example below illustrates our methodology.

Description	% of total booked capacity attributable to the exit zone	Allowed Revenue Apportioned (£)	Shipper Demand snapshot (KWh)	ECN Unit rate (p/kWh/d)
Calculation	Exit zone booking amount / Total booking amount	Total x (Exit zone cost / total cost)	From Xoserve 'Snapshot' data	Allowed revenue / demand
Exit Zone 1	39.9%	15,315,054	178,963,786	0.0160
Exit Zone 2	12.7%	4,935,431	57,164,617	0.0161
Exit Zone 3	42.2%	16,095,852	189,303,481	0.0159
Exit Zone 4	5.2%	1,874,342	23,317,336	0.0150
Total	100.0%	38,220,679	448,749,220	

ECN unit rates will differ across exit zones due to any differences in capacity bookings and a shipper's demand profile. Potential reasons a shipper's demand level can differ to our bookings are as follows:

- Timing of bookings compared to the snapshot of shipper demand taken
- User commitments to which NGN is currently contracted