



# Statement of Transportation Charges

Effective from 1st April 2023

**East of England  
Gas Distribution Network**

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# Introduction

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This publication sets out the transportation charges that apply from 1st April 2023 for the use of the East of England Gas Distribution Network, as required by Standard Special Condition A4 of the Gas Transporter Licence. This document does not override or vary any of the statutory, Licence or Uniform Network Code obligations.

## 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 publication will be used in the calculation of charges within UK Link, which are definitive for billing purposes.

For further information and details on the methodologies underlying the LDZ transportation charges please refer to the documents referenced within the Appendices and the Uniform Network Code (UNC). These methodologies are set out in the UNC, within the Transportation Principal Document Section Y Part B, and are 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](http://www.gasgovernance.co.uk)

## The Distribution Transportation Price Control Formula

Distribution networks set prices with the aim of recovering the level of allowed revenue permitted by the gas and electricity market regulator Ofgem, calculated in accordance with our Gas Transporter Licence. Should more or less than the maximum permitted revenue be collected in any formula year, then a compensating adjustment is made in the subsequent year.

## Units

- Commodity charges are expressed and billed in pence per kilowatt hour (kWh)
- Capacity charges are expressed and billed in pence per peak day kilowatt hour per day
- Fixed charges are expressed and billed in pence per day

## Invoicing

Correla (formerly Xoserve) is the third party responsible for hosting and supporting the UK Link system and act as the billing agent for the gas networks, including Cadent. They produce and issue the invoices that are derived from the transportation charges shown within this publication. Each charge levied has an associated charge code and invoice type which has been included within this publication to clarify the link between charging and invoicing and to aid better understanding of bills.

For more information on invoicing, please contact Correla (formerly Xoserve) directly at [capcom@xoserve.com](mailto:capcom@xoserve.com)

## Gas Distribution Network, Forecast Allowed Revenue for the Regulatory Year 2023/24

Following publication of Final Charges on 31<sup>st</sup> January 2023 unit rates have not changed. For further details please refer to Joint Office website.

Maximum Allowed Revenue for the East of England Network for the forthcoming regulatory formula year 2023/24 is £811.9m. This is a decrease of 11.9% against 2022/23 primarily due to lower Supplier of Last Resort claims which form a part of our Allowed Revenues. Underlying revenues have increased as a result of macro variables including inflation, tax rate and higher allowed returns, off-set by lower costs as detailed in the table below. Further details are provided in our Pricing notifications published 31 January 2023.

Should more or less than the maximum permitted revenue be earned in any formula year, then under RIIO-GD2 methodology this is added to the following years allowed revenue position.

EASTERN	LDZ	ECN	SOLR	TOTAL
<b>22/23 PUBLISHED ALLOWED REVENUE</b>	674.1	95.3	152.1	921.5
INFLATION - CPIH - USING OBR NOVEMBER 2022 FORECAST	91.4			91.4
HIGHER RETURN ON CAPITAL	11.4			11.4
TAX ALLOWANCE (MOVE TO 25% CT + TRUE-UP)	22.4			22.4
TOTEX ASSUMPTIONS & PROVISIONAL RIIO-1 DISPOSALS	(10.8)			(10.8)
LOWER SHRINKAGE PASS THROUGH COST	(26.8)			(26.8)
LOWER BUSINESS RATES (RV)	(13.8)			(13.8)
LOWER EXIT CAPACITY COST		(40.5)		(40.5)
LOWER SOLR COST			(111.1)	(111.1)
ADJUSTMENT TERM, 'K' CORRECTION, & LEGACY	(24.5)			(24.5)
OTHER INDIVIDUALLY LOWER VALUE ITEMS	(4.2)			(4.2)
<b>2023/24 ALLOWED REVENUE</b>	<b>716.0</b>	<b>54.8</b>	<b>41.1</b>	<b>811.9</b>
<b>% CHANGE IN ALLOWED REVENUE</b>	<b>6.2%</b>	<b>-42.5%</b>	<b>-73.0%</b>	<b>-11.9%</b>
MOVEMENT IN AGGREGATED CHARGES - %	6.2%	(42.5)%	(73.0)%	(11.9)%

## Theft of Gas

The licensing regime places incentives on Transporters, Shippers and Suppliers to take action in respect of suspected theft of gas. Certain costs associated with individual cases of theft are recovered through transportation charges with the Transporter remaining cash neutral in the process.



## LDZ System Charges

### Standard LDZ System Charge

The standard LDZ system charges comprise of capacity and commodity charges, with the same rates and functions applicable for both Directly Connected Supply Points and Connected System Exit Points (CSEPs).

Where the 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.

### Directly Connected Supply Points and CSEPs

Charge codes, unit rates and charging functions used to calculate charges to Directly Connected Supply Points and CSEPs are set out in the tables below.

**Table 1: Charge Codes for Directly Connected Supply Points and CSEPs**

Directly Connected		CSEPs	
Invoice Type	Charge Code	Invoice Type	Charge Code
Capacity (CAZ)	ZCA	Capacity (CAZ)	891
Commodity (COM)	ZCO	Commodity (COM)	893

**Table 2: LDZ System Charges for Directly Connected Supply Points & CSEPs**

Charge Band (kWh per annum)	LDZ Capacity (pence per peak day kWh per day)	LDZ Commodity (pence per kWh)
0 to 73,199	0.2131	0.0363
73,200 to 731,999	0.1703	0.0288
732,000 and above	$1.0882 \times \text{SOQ}^{-0.2155}$	$0.2305 \times \text{SOQ}^{-0.2376}$
Subject to a minimum rate of	0.0208	0.0032
Minimum rate applies at SOQ of	94,439,267	65,742,940

### CSEP Charging

In the calculation of LDZ charges payable for CSEPs, the unit 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 particular 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.

## Optional LDZ Charge

The optional LDZ tariff is available, as a single charge, as an alternative to the standard LDZ system charges. This tariff may be attractive to large loads located close to the NTS. The rationale for the optional tariff is that, for large Network loads located close to the NTS or for potential new Network loads in a similar situation, the standard LDZ tariff can appear to give perverse economic incentives for the construction of new pipelines when Network connections are already available. This could result in an inefficient outcome for all system users.

**Table 3: Optional LDZ Charge Function**

Charge Code	Pence per peak day kWh per day
881	$902 \times [(SOQ)^{-0.834}] \times D + 772 \times (SOQ)^{-0.717}$

### Please Note:

SOQ = the Registered Supply Point Capacity, or other appropriate measure, in kWh per day.

D = the direct distance, in km, from the site boundary to the nearest point on the NTS.

^ Means “to the power of ...”

## LDZ Customer Charges

LDZ Customer charges apply only to Directly Connected Supply Points.

For supply points with an AQ of less than 73,200 kWh per annum, the customer charge is a capacity-based charge.

For supply points with an AQ between 73,200 and 731,999 kWh per annum, the customer charge is made up of a fixed element that depends on the frequency of meter reading, plus a capacity charge based on the registered supply point capacity (SOQ).

For supply points with an AQ of 732,000 kWh per annum or more, the customer charge is based on a function related to the registered supply point capacity (SOQ). The charge codes, unit rates and charging functions used to calculate customer charges to Directly Connected Supply Points are set out in the table below.

**Table 4: LDZ Customer Capacity Charge Codes, Unit Rates and Charging Functions**

Charge Code	CCA
Charge Band (kWh per annum)	Unit Rate (pence per peak day kWh per day)
0 to 73,199	0.1203
73,200 to 731,999	0.0039
732,000 and above	$0.0853 \times SOQ^{-0.2100}$

**Table 5: LDZ Customer Fixed Charge Codes and Unit Rates**

Charge Code	CFI
Fixed charge	Unit Rate (pence per day)
Non-monthly read supply points	35.3098
Monthly read supply points	37.5971

## LDZ Exit Capacity NTS (ECN) Charges

The NTS Exit Capacity prices published by National Grid have been factored into the ECN Price change. Distribution Networks (DNs) set ECN unit rates to recover their ECN specific allowed revenue, incorporating the latest demand volumes. The ECN allowed revenue is set during the recent Annual Iteration Process and is made up of:

- ECN base allowance which is a forecast of NTS exit capacity costs, using latest published NTS ECN rates and network capacity bookings;
- ECN cost true ups i.e. the difference between actual cost the costs previously charged for in prior years

When setting ECN rates, DN's seek to recover their allowed revenue as calculated above, rather than solely costs for the year.

To calculate the unit rates for each exit zone within a network the level of NTS cost per exit zone is used to apportion the total ECN allowed revenue across each exit zone. Once the revenue that needs to be recovered from each exit zone is determined, the latest demand snapshot of SOQs is used to calculate a unit rate per exit zone.

Shipper demand can differ to DN capacity bookings for a number of reasons, including the timing of DN bookings vs. the demand snapshot and any user commitment in place that networks have to consider.

National Grid Transmission will invoice gas Distribution Networks (DNs) for booked NTS Exit Capacity and DN's will invoice Shippers. The ECN charging methodology is covered in Section Y Part B (9) of the UNC. ECN charges are designed to recover the annual amount of exit capacity cost as defined in the Gas Transporter Licence (inclusive of timing adjustments between allowed and actual costs) and adjustments for any under or over recovery of ECN revenue from the prior year.

The charge codes and unit rates used to calculate ECN charges for Directly Connected Supply Points and CSEPs are set out in the table below. As per the LDZ System Charge, the same unit rates apply for both Directly Connected Supply Points and CSEPs.

**Table 6: LDZ Exit Capacity NTS (ECN) Charge Codes and Unit Rates**

Invoice Type	Charge Code
Directly Connected	ECN
CSEPS	C04

Exit Zone	Unit Rate (pence per peak day kWh per day)
EA1	0.0196
EA2	0.0196
EA3	0.0196
EA4	0.0196
EM1	0.0196
EM2	0.0197
EM3	0.0197
EM4	0.0197

## Supplier of Last Resort Charges

UNC Modification 0797 'Last Resort Supply Payments Volumetric Charges' was approved by OFGEM for implementation. The total costs associated with allowed SoLR claims has been agreed by Ofgem. The charge type and information in the table below for SoLR cost recovery is only attributable to Domestic users as agreed with Ofgem

**Table 7: Supplier of Last Resort Unit Rates**

CHARGE CODE: LRI / LRD	PENCE / PEAK DAY Kwh
LRSP DOMESTIC CHARGE (LRD)	0.0223
LRSP INDUSTRIAL CHARGE (LRI)	0.0000



## DN System Entry Commodity Charge

The DN System Entry Commodity Charge came into effect on the 1st April 2013 and reflects the cost of receiving gas directly into the distribution network through a LDZ System Entry Point rather than through the NTS.

The rate associated with the LDZ System Entry Commodity charge is calculated on a site by site basis and may be positive resulting in a charge, or negative resulting in a credit.

The level of charge / credit will vary according to the amount of gas entering the network system, the pressure tier at which the gas enters the system and the operational costs associated with the entry point.

The charge / credit is made up of the following three elements and is an adjustment to the full transportation charge:

- Operational Costs: the Shipper will be charged for operational costs incurred by the Distribution Network in maintaining the entry point connection to the system
- Exit Capacity Credit: the Shipper will receive a credit in respect of exit capacity charges as the gas has not entered the Distribution Network via the National Transmission System in the traditional way.
- System Credit: the Shipper will receive a level of credit depending on the pressure tier at which the entry point connects. This is to reflect lower overall system usage than gas that enters the network via the National Transmission System. Sites connected at the Local Transmission Network (LTS) receive no credit.

The table on the following page provides details on LDZ System Entry unit rates for all sites with accepted connection offers that are expected to be in operation during 2023/24. As and when connection offers are accepted for additional sites expected to come into operation during the year, unit prices will be notified under the 'Notice of Charges' section of the Joint Office of Gas Transporters website.

**Table 8: LDZ System Entry Unit Rates**

Charge Code	LEC	
	Charge / Credit	Unit Rate (pence per kWh)
DN Entry Point (Site Name)		
Adnams Brewery Southwold	CHARGE	0.2691
Attleborough	CREDIT	-0.0772
Bay Farm	CREDIT	-0.0046
Beccles, Sotterley	CREDIT	-0.0890
Biodynamic / Colwick	CREDIT	-0.1070
Bonby	CREDIT	-0.0109
Brigg Lane	CREDIT	-0.0141
"Chear Fen Farms, Chittering	CREDIT	-0.1112

Chittering 2	CREDIT	-0.1081
Derby	CREDIT	-0.1013
Euston	CREDIT	-0.0114
"Fairfields Farm, Wormingford	CREDIT	-0.0031
Fernbrook	CREDIT	-0.1042
Glebe Farm	CREDIT	-0.0093
Hemswell Cliff	CREDIT	-0.0767
Holkham, Norfolk	CREDIT	-0.0078
Ilkeston	CREDIT	-0.1001
Lindholme, Doncaster	CREDIT	-0.0823
Manor Farm, Alderton	CREDIT	-0.1057
Mepal	CREDIT	-0.1070
Metheringham MP / IP	CREDIT	-0.1001
Methwold	CREDIT	-0.0058
North Moor Farm, Crowle	CREDIT	-0.0648
Pickenham Airfield	CREDIT	-0.0058
Raynham Farm	CREDIT	-0.0046
Redbourne Road, Hibaldstow	CREDIT	-0.109
Scampton	CREDIT	-0.0779
Stoke Bardolph	CREDIT	-0.0945
Stoke Bardolph 2	CREDIT	-0.0857
The Oaks	CREDIT	-0.0058
Thorpe Arnold	CREDIT	-0.0127
Welbeck Colliery, Meden Vale	CREDIT	-0.1042
Westry	CREDIT	-0.0099
Sutton Lodge Farm	CREDIT	-0.1142
Singleton Birch	CREDIT	-0.0772
Wellington Lodge Farm	CREDIT	-0.0031

# Charge Types and Invoice Mapping

The following list presents the core invoice types and charge codes reflected in this document, which are billed by Correla (formerly Xoserve) on our behalf. A full list of current invoice types and charge codes is available through the Correla (formerly Xoserve) Shared Area.

**Table 9: Invoice Types and Charge Codes**

	Invoice Type	Charge Codes
<b>LDZ Capacity</b>		
Supply Point LDZ Capacity	CAZ	ZCA
CSEP LDZ Capacity	CAZ	891
Unique Sites LDZ Capacity Charge	CAZ	871
LDZ Optional Tariff	CAZ	881
<b>Customer Capacity</b>		
Customer LDZ Capacity	CAZ	CCA
Customer Capacity fixed Charge	CAZ	CFI
Unique Sites Customer Capacity	CAZ	872
<b>Commodity</b>		
LDZ Commodity	COM	ZCO
CSEP Commodity	COM	893
Unique Sites Commodity	COM	878
LDZ System Entry Commodity Charge	COM	LEC
<b>Exit Capacity</b>		
LDZ Exit Capacity	CAZ	ECN
CSEP Exit Capacity	CAZ	C04
Unique Sites Exit Capacity	CAZ	901
<b>Other Charges</b>		
LDZ Shared Supply Admin Charge	CAZ	883
CSEP Admin Charge	CAZ	894
<b>Supplier of Last Resort (NEW)</b>		
LRSP Domestic Charge	ANC	LRD

## Examples

This section provides illustrative examples of how transportation charges are used to calculate a bill for different load bands. However, as these calculations are subject to rounding they should only be regarded as purely illustrative. The commodity charges in these examples are also based on a supply point AQ, but the actual charges would vary depending on the actual consumption of the supply point for that period.

Charges produced by UK Link are definitive for charging purposes and take precedence to any examples listed within this section.

### Example 1

A Shipper has a daily metered customer 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		
<b>LDZ Capacity</b>		<b>LDZ Capacity</b>		
Invoice:	LDZ Capacity (ZCA)	Volume:	365 days x 100,000 (SOQ)	36,500,000
See:	Table 2	Unit Rate:	$1.0882 \times 100,000 \text{ (SOQ)}^{-0.2155}$	0.0910
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£33,215.00
+				
<b>LDZ Commodity</b>		<b>LDZ Commodity</b>		
Invoice:	LDZ Commodity (ZCO)	Volume:	20,000,000 (AQ)	20,000,000
See:	Table 2	Unit Rate:	$0.2305 \times 100,000 \text{ (SOQ)}^{-0.2376}$	0.0150
Basis:	pence / kWh	Annual Charge:	Volume x Unit Rate	£3,000.00
+				
<b>LDZ Customer (Capacity)</b>		<b>LDZ Customer (Capacity)</b>		
Invoice:	LDZ Capacity (CCA)	Volume:	365 days x 100,000 (SOQ)	36,500,000
See:	Table 4	Unit Rate:	$0.0853 \times 100,000 \text{ (SOQ)}^{-0.2100}$	0.0076
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£2,774.00
+				
<b>LDZ Exit Capacity</b>		<b>LDZ Exit Capacity</b>		
Invoice:	Exit Capacity (ECN)	Volume:	365 days x 100,000 (SOQ)	36,500,000
See:	Table 6	Unit Rate:	0.0196 pence / peak day kWh / day	0.0196
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£7,154.00
=				
<b>Total Annual Charge</b>		<b>£46,143.00</b>		

## Example 2

A Shipper has a domestic customer and the load has an AQ of 13,500 kWh per annum. In this example the annual load places the end user in category EM:E2201BND for a non-prepayment domestic customer. The load factor for this site is 31.1%. The peak daily load (SOQ) is therefore  $13,500 \div (365 \times 0.311) = 119$  kWh.

PROCESS		CALCULATIONS		
<b>LDZ Capacity</b>		<b>LDZ Capacity</b>		
Invoice:	LDZ Capacity (ZCA)	Volume:	$(13500 \text{ (AQ)} / 365 \text{ days} / 31.1\%) \times 365$	42,705
See:	Table 2	Unit Rate:	0.2131 pence / peak day kWh / day	0.2131
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£91.00
+				
<b>LDZ Commodity</b>		<b>LDZ Commodity</b>		
Invoice:	LDZ Commodity (ZCO)	Volume:	13500 (AQ)	13,500
See:	Table 2	Unit Rate:	0.0363 pence per kWh	0.0363
Basis:	pence / kWh	Annual Charge:	Volume x Unit Rate	£4.90
+				
<b>LDZ Customer (Capacity)</b>		<b>LDZ Customer (Capacity)</b>		
Invoice:	LDZ Capacity (CCA)	Volume:	$(13500 \text{ (AQ)} / 365 \text{ days} / 31.1\%) \times 365$	42,705
See:	Table 4	Unit Rate:	0.1203 pence / peak day kWh / day	0.1203
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£51.37
+				
<b>LDZ Exit Capacity</b>		<b>LDZ Exit Capacity</b>		
Invoice:	Exit Capacity (ECN)	Volume:	$(13500 \text{ (AQ)} / 365 \text{ days} / 31.1\%) \times 365$	42,705
See:	Table 6	Unit Rate:	0.0196	0.0196
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£8.37
+				
<b>Supplier of Last Resort Charge (Capacity)</b>		<b>Supplier of Last Resort Charge (Capacity)</b>		
Invoice:	SoLR (LRD)	Volume:	$(13500 \text{ (AQ)} / 365 \text{ days} / 31.1\%) \times 365$	42,705
See:	Table 7	Unit Rate:	0.0196 pence / peak day kWh / day	0.0196
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£8.37
=				
<b>Total Annual Charge</b>		<b>£164.01</b>		



### Example 3

Suppose that instead of supplying just one domestic customer (as in Example 2) the Shipper supplies a connected system currently comprising 100 domestic customers and the completed connected system will include 150 domestic premises. Suppose that each of these premises has the same AQ of 15,000 kWh per annum.

Annual Quantity (AQ) = Number of premises x AQ per premise	Prevailing AQ (pre AQ)	100 houses x 15,000 (AQ) = 1,500,000 kWh
	Maximum AQ (max AQ)	150 houses x 15,000 (AQ) = 2,250,000 kWh
Supply Point Offtake Quantity (SOQ) = AQ ÷ (365 x Load Factor)	Prevailing SOQ (pre SOQ)	1,500,000 ÷ (365 x 0.313) = 13,130 kWh
	Maximum SOQ (max SOQ)	2,250,000 ÷ (365 x 0.313) = 19,695 kWh

**Note:** 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.

PROCESS		CALCULATIONS		
<b>LDZ Capacity</b>		<b>LDZ Capacity</b>		
Invoice:	LDZ Capacity (891)	Volume:	13046 (pre SOQ) x 365 days	4,761,790
See:	Table 2	Unit Rate:	1.0882 x 19569 (max SOQ) x -0.2155	0.1294
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£6,161.76
+				
<b>LDZ Commodity</b>		<b>LDZ Commodity</b>		
Invoice:	LDZ Commodity (893)	Volume:	1500000 (AQ)	1,500,000
See:	Table 2	Unit Rate:	0.2305 x 19569 (max SOQ) x -0.2376	0.0220
Basis:	pence / kWh	Annual Charge:	Volume x Unit Rate	£330.00
+				
<b>LDZ Exit Capacity</b>		<b>LDZ Exit Capacity</b>		
Invoice:	Exit Capacity (C04)	Volume:	13046 (pre SOQ) x 365 days	4,761,790
See:	Table 6	Unit Rate:	0.0196	0.0196
Basis:	pence / peak day kWh / day	Annual Charge:	Volume x Unit Rate	£933.31
=				
<b>Total Annual Charge</b>		<b>£7,425.07</b>		

## Contact Details

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If you have any questions in relation to this document, please contact a member of the Revenue & Pricing team.

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## Appendix A: Estimation of Peak Daily Load for Non-Daily Metered Supply Points

For non-daily metered (NDM) supply points, the peak daily load is estimated using a set of End User Categories (EUCs). Each NDM supply point is allocated to an EUC. In each LDZ, each EUC has an associated load factor.

A full list of the latest End User Categories, WAR bands and Load Factors for the East of England network are available electronically via the Correla (formerly Xoserve) secure internet site: [https://www.Correla \(formerly Xoserve\).com/systems/uk-link](https://www.Correla (formerly Xoserve).com/systems/uk-link).

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 winter: annual 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 an EUC simply on the basis of its annual quantity. The peak load for an NDM supply point may then be calculated as:

$$\frac{AQ \times 100}{365 \times \text{Load Factor}}$$

### Example

For a supply point in Eastern (EA) LDZ with an annual consumption of 1,000 MWh per annum: Assume consumption December to March inclusive is 440 MWh.

Winter: annual ratio =  $440 \div 1000 = 0.44$

For a site with an annual consumption of 1,000 MWh (EUC Code EA:E2203B), a ratio of 0.44 falls within winter: annual ratio band W02 and the site is thus within End User Category EA:E2203W02.

For a site in this category, in this example the load factor is 45.7% and the peak daily load is therefore:

$$\frac{1000 \times 100}{365 \times 45.7\%} = 6.00 \text{ Mwh}$$

If the required meter reading information is not available to calculate the winter: annual ratio, the supply point is allocated to an EUC simply on the basis of its annual quantity, in this case EA:E2203B. For this example, for a site in this category, the load factor is 34.1% and the peak daily load is therefore:

$$\frac{1000 \times 100}{365 \times 34.1\%} = 8.03 \text{ Mwh}$$

### Six Monthly Read Sites

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

### Daily Metered Supply Points

The SOQ of daily metered sites is known and hence no load factor is required.

Supply points with an AQ above 73.2 MWh pa may, at the Shipper's request, be classified as daily metered.

### Consultation on End User Categories

Section H of the Network Code 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 the Demand Estimation Sub-Committee (a sub-committee of the Network Code Committee) is consulted before publication of the proposals.

## Appendix B: Application of Transportation Charging Methodology

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Standard Special Condition A4 of the Transporter's Gas Transporter (GT) Licence requires the Transporter to establish a charging methodology and to set out the application of the methodology, showing the methods and principles on which the transportation charges are based. The present charging methodology was introduced in 1994 and has been modified from time to time in accordance with the GT Licence.

### Price Control Formulae

The Maximum Allowed Revenue under the transportation controls is determined by a number of factors including:

- The Base Revenue determined through the Final Determination for RIIO2-GD2 by Ofgem.
- The indexation factor - under the distribution formula, allowed revenue is adjusted each year by a factor equal to the forecast rate of inflation, with a subsequent true-up for actual inflation, measured by reference to the Consumer Price Index including Owner Occupiers' Housing Costs.
- Legacy Adjustments from RIIO-1 which include, but not limited to pass through and MODt
- Any under or over-recovery, known as K correction factor, now in RIIO-2 is lagged by one year, whereas in RIIO-1 it was lagged by 2 years. The Allowed Revenue in 22/23 has both K correction factors from 19/20 and 20/22 applied to it.

The "K" correction factor is necessary because the level of charges set under the control depends on forecasts of some of the above elements. Outturn will inevitably differ from forecast, thus giving rise to variances between the amount of revenue generated and that allowed under the control. The K factor enables correction for these variances by adjusting either upwards or downwards the maximum level of revenue allowed in subsequent formula years (taking interest into account).

### Objectives of the Charging Methodology

The transportation charging methodology has to comply with objectives set out in the Licence under Standard Special Condition A5. These are that:

- Compliance with the charging methodology results in charges which reflect the cost incurred by the transporter in its transportation business
- Facilitates competition between gas shippers and between gas suppliers
- Takes account of developments in the transportation business



In addition to these Licence objectives, Cadent has its own objectives for the charging regime. These are that the transportation charging methodology should:

- Promote efficient use of the transportation system
- Generate stable charges
- Be easy to understand and implement

Before the Transporter makes any changes to the methodology, it would raise a UNC modification proposal in line with the UNC procedures and consult with the industry in accordance with Standard Special Condition A5 of the Licence. Ofgem has the right to veto any proposed changes to the methodology.

### Structure of LDZ System and Customer Charges

The LDZ charges are split between system related activities and customer related activities. While total LDZ revenue is determined by the relevant price control, the share of this revenue to be recovered from the LDZ system charges and the LDZ customer charges respectively is based on the relative cost of each area of activity. The current split is set out in the below:

**Table B.1 Split of LDZ System and Customer charges (%)**

LDZ System	LDZ Customer	Total
70.5%	29.5%	100%

The Gas Distribution networks are in the process of reviewing the above percentage splits to ensure they are still broadly reflective of the costs now and moving into RIIO-GD2.

Having established by the above methods the target revenue to be derived from each main category of charge, the next step is to structure the charges within each of these charge categories across the load bands, such that they reasonably reflect the costs imposed on the system by different size loads. The methodology used to do this is described in the appropriate sections below.

### LDZ System Charging Methodology

The Standard LDZ System charges effective from 1st April 2013 are based on the methodology fully described in consultation paper DNPC08 - Review of Standard LDZ System Charges. This methodology is described below and was based on an analysis of Network costs and usage and a 95:5 capacity/commodity split.

The distribution network contains a series of pipe networks split into four main pressure tiers:

**Table B.2 LDZ Pressure Tiers**

Pressure Tier	Operating Pressure
Local Transmission System (LTS)	7 - 38 bar
Intermediate Pressure System (IPS)	2 - 7 bar
Medium Pressure System (MPS)	75 mbar - 2 bar
Low Pressure System (LPS)	Below 75 mbar

### Determination of Costs

The costs related to each pressure tier were derived from the split of distribution network costs undertaken as part of DNPC05, with further analysis to allocate the LDZ System costs across the pressure tiers and sub-tiers. These costs are split 95:5 into capacity and commodity elements in line with the methodology established by DNPC03.