

Contents

Introduction	1
NTS Capacity Charges	
NTS TO Entry Capacity	
Quarterly System Entry Capacity	
Monthly System Entry Capacity	
Daily System Entry Capacity	5
Entry Capacity Reserve Prices	6
PARCA Entry Weighted Average Price	6
Constrained LNG	
NTS TO Exit Capacity Charges	10
PARCA Exit Weighted Average Price	10
NTS Interconnection Point (IP) Capacity	17
Entry Interconnection Point (IP) Auctions	17
Exit Interconnection Point (IP) Auctions	17
NTS Commodity Charges	19
NTS TO Entry Commodity Charge	19
NTS TO Entry Commodity Charge Rebate	19
NTS TO Entry Commodity Charge Credit	19
NTS TO Exit Commodity Charge	19
NTS SO Commodity Charge	19
NTS Optional Commodity Charge	20
Compression Charge	20
Other Charges	21
DN Pension Deficit Charge	21
Metering Charges	21
Connected System Exit Points (CSEPs)	23
Shared Supply Meter Point Allocation Arrangements	23
Allocation Arrangements at Interconnectors	23
Administration Charges at Moffat	23
Appendix A NTS Non-Incremental Obligated Entry Capacity	24
Appendix B AMSEC Entry Capacity	27
Appendix C QSEC Entry Capacity	28
Appendix D QSEC Step Prices 2015	29
Appendix E Estimated Project Values (£m)	31

Introduction

This publication sets out the transportation charges which apply from 1 October 2015 for the use of the NTS, as required by Standard Special Condition A4 of the National Grid NTS Gas Transporter Licence. This document does not override or vary any of the statutory, Licence or Uniform Network Code obligations upon National Grid NTS.

Further information on the methods and principles on which Transmission transportation charges are derived is set out in Uniform Network Code (UNC) – Transportation Principal Document, Section Y – Charging Methodologies. A copy of the UNC can be found at www.gasgovernance.co.uk/TPD.

Details of National Grid and its activities can be found on the National Grid Internet site at www.nationalgrid.com. An electronic version of this publication can be found on our web site at www.nationalgrid.com/uk/Gas/Charges/state-ments/. For more information on the charges set out below, please contact Colin Williams on 01926 655916 or Karin Elmhirst on 01926 655540 or email box.transmissioncapacityandcharging@nationalgrid.com.

Changes to Charges – Indicative and Final Notices

NTS Transportation Charges are normally updated on 1 April and 1 October of each year in line with our Licence obligations. When considering changes to charges, National Grid will give an estimate of such changes in an "Indicative Notice" published 150 days prior to implementation and a "Final Notice" published two months prior to implementation. The notices will be available on our website at the following locations, respectively;

www.nationalgrid.com/uk/Gas/Charges/indic ativecharges/ and

www.nationalgrid.com/uk/Gas/Charges/Notic eofChange/.

Uniform Network Code

The Uniform Network Code (UNC) forms the contractual framework between NTS and DN

Gas Transporters, and the shippers whose gas is transported. It is supported by an integrated set of computer systems called UK Link. The charges and formulae in this booklet will be used in the calculation of charges within UK Link, which are the definitive rates for billing purposes.

There are a number of areas of the UNC that impact upon the cost to shippers of using the transportation network, such as imbalance charges, scheduling charges, capacity overruns, top-up neutrality charges and contractual liability. For details of such charges and liabilities, reference should be made to the UNC, which is modified from time to time, and not discussed further in this document.

Units

Charges are expressed and billed as follows:

- Commodity pence per kilowatt hour (kWh).
- Exit Capacity pence per kWh per day.
- Entry Capacity pence per kWh per day.
- Fixed pence per day.

All charge rates are rounded to 4 decimal places.

Invoicing

Invoices derived from the transportation charges shown within this publication are produced and issued by Xoserve. Xoserve is the invoicing service provider to the NTS and the Distribution Networks (DNs). To clarify this link between pricing and invoicing, charge codes and invoice names are included in the tables in this document.

For more information on invoicing, please contact the Xoserve invoicing team via email at xo_css_billing@xoserve.com.

The National Grid NTS Transportation Price Control Formulae

Transportation charges are derived in relation to price control formulae which are set by Ofgem, the gas and electricity market regulator, for the transportation of gas. These formulae determine the maximum revenue National Grid NTS can earn from the transportation of gas. Should National Grid NTS earn more or less than the maximum permitted revenue in any formula year, a compensating adjustment will be made in the relevant future year as described in the NTS Licence. Where a significant over or underrecovery is anticipated within a year an adjustment to charges may be made during the year.

The price control for the NTS is divided into Transportation Owner (TO) and System Operator (SO) controls. Transportation charges are split to reflect these price control arrangements.

For NTS TO revenue, the target is to recover 50% from Exit Capacity bookings and 50% from Entry Capacity auctions. Both Entry and Exit Capacity charges reflect the estimated long run marginal cost (LRMC) of developing the system to meet a sustained increase in demand and supplies and are based on GCM01 'Methodology for Determination of NTS Entry and Exit Capacity Prices', which uses a Transportation Model. For further details of GCM01 please see our web site www.nationalgrid.com/uk/Gas/Charges/cons ultations/.

Charges for Entry Capacity are determined by auctions which apply to all system Entry points. Exit Capacity charges are administered and set so as to recover the TO target Exit revenue.

The unpredictability of Entry auction revenue and Exit Capacity bookings means that the 50 / 50 TO revenue split between Entry and Exit may not be achieved in practice. In the event of a

forecast under-recovery of auction revenue against the Entry target level, a TO Entry commodity charge may be levied on entry flows and a TO Exit commodity charge may be levied on Exit flows where revenue from Exit Capacity bookings is forecast to be under-recovered. The TO commodity charges are the same at all Entry and Exit points.

SO revenue is recovered through the NTS SO commodity charge. This is a uniform charge, independent of Entry and Exit points, and is levied on both NTS Entry and NTS Exit flows. A distance-related Commodity tariff, the Optional NTS Commodity charge, is also available as an alternative to both the SO and TO Commodity charges.

DN Pensions Deficit

The DN Pensions Deficit Charge is a charge levied on the Distribution Network (DN) Operators. It is designed to collect specific annual cost allowances for the part-funding of the deficit in the National Grid UK Pension Scheme. This deficit relates to the pension costs of former employees of the DNs. The allowance has been included in the NTS TO Price Control Formulae RIIO—T1 effective from 1 April 2013. It is recovered via the application of a DN Pensions Deficit Charge which is levied on each of the DNs on a monthly basis in accordance with National Grid's NTS Licence and the DN's Gas Transporters Licence.

NTS Exit Reform

From the 1 October 2012 the NTS Exit Capacity regime moved from its 'Transitional' to the 'Enduring' period. NTS Exit Reform changes have been approved via UNC Modification 0195AV which introduced Enduring Annual, Annual, Daily Firm and Off-Peak sales of NTS Exit Flat Capacity through Application and Auction based mechanisms. The primary business drivers for the Enduring Offtake arrangements are to provide market signals for NTS investment and to facilitate fair competition.

The terms on which the capacity is sold are set out in the UNC Section B.

Firm transportation charges for the NTS comprise Capacity and Commodity charges.

Details of Exit Capacity applications and auctions can be obtained from National Grid Market Operation on **01926 654058** and via email at **nts.exitcapacity@nationalgrid.com**.

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. National Grid's NTS charges reflect these requirements, with National Grid NTS remaining cash neutral in the process.

NTS Capacity Charges

Capacity charges consist of charges for Entry, Exit and credits payable for constrained Liquefied Natural Gas (LNG). This section also includes details of the Interconnector Point (IPs) auctions.

Entry and Exit Capacity charges are payable when a right to flow gas is purchased irrespective of whether or not the right is exercised.

NTS TO Entry Capacity

National Grid is obliged to make available for sale System Entry Capacity by means of five related auction mechanisms. For each of the System Entry points, Capacity is made available on a firm and interruptible basis. All Entry Capacity is offered on a pence per kWh per day basis, where the quantity is measured in terms of an end of day entitlement.

Interruptible Capacity is limited to being offered on a daily basis in an auction that is conducted the day ahead of the intended day of use.

Firm Entry Capacity is offered in bundles of quarters, months and days.

For further information on System Entry Capacity charging please refer to **Uniform Network Code** (UNC) – Transportation Principal Document, Section Y – Charging Methodologies.

National Grid's Transportation Model is used to determine prices for Entry and Exit Capacity. The Transportation Model is available to parties that have signed the licence agreement for the model. Details of how to obtain the model can be found on the charging section of our website under Tools and Supporting Information at www.nationalgrid.com/uk/Gas/Charges/Tools/.

Quarterly System Entry Capacity

Entry Capacity can be obtained through the Quarterly (firm) System Entry Capacity (QSEC) auction process up to 17 years ahead of the

intended year of use. National Grid NTS has an obligation to make available a baseline quantity which is calculated in accordance with paragraph 14(5)(g) of part 2 of Special Condition 2A National Grid NTS's Licence. The baseline quantity from which National Grid NTS's obligation is derived is set out in Appendix A of the current Transmission Transportation Charging Statement. The minimum quantities to be offered in the Annual System Entry Capacity auctions, after taking into account a requirement to hold back some Capacity for short term allocation, is detailed in Appendix C.

For each of the system Entry points National Grid NTS has determined a baseline price and up to an additional 20 price steps for increments of Capacity that may be demanded above the baseline quantity, as set out in the Uniform Network Code (UNC) - Transportation Principal Document, Section Y - Charging Methodologies and the Entry Capacity Release (ECR) Statement. The step prices that are applicable for QSEC allocations are set out in Appendix D of the current Transmission Transportation Charging Statement. Prices are published for each System Entry point and are applicable for all periods in which QSEC is offered. Allocation of Capacity will be conducted in accordance with the provisions set out in National Grid NTS's Entry Capacity Release (ECR) Statement.

QSEC auctions take place annually in March.

NTS Entry Capacity Retention Charges

The establishment of Entry Capacity Substitution (ECS), a process by which National Grid Gas moves unsold non-incremental obligated Entry Capacity from one Aggregated System Entry Point (ASEP) to meet the demand for incremental obligated Entry Capacity at a different ASEP, has introduced a "retainer" as an annual product which can be taken out at any Entry point with unsold Capacity. When requested ahead of the Quarterly System Entry Capacity (QSEC) auction, the retainer allows the specified volume of Capacity to be excluded from the substitution process during the QSEC or in any other QSEC auction during the next twelve months.

The costs of taking out a retainer on Entry Capacity may be refunded to the party that takes out a retainer if that Capacity is subsequently purchased by any user in subsequent QSEC or AMSEC auctions, as detailed by the Entry Capacity Substitution (ECS) Methodology Statement (available on the National Grid website via the following link www.nationalgrid.com/uk/Gas/Charges/statements/).

The retainer charge is given in **Table 1** and is applicable to all ASEPs.

Table 1 Retainer Charge

Invoice	Charge Code
ADK	QUC

Charge per unit of Entry Capacity retained 0.2922 pence per KWh of Entry Capacity retained (equates to 0.0001 p/kWh/d for 32 quarters).

Monthly System Entry Capacity

National Grid NTS offers two monthly Capacity products – Monthly System Entry Capacity (firm) (MSEC) and the Rolling Monthly (firm) Trade & Transfer System Entry Capacity (RMTNTSEC) auction.

For each of the System Entry points MSEC is allocated by auction for a period no more than 18 months ahead of the period of use. The maximum quantities to be offered in MSEC allocations are also set out in Appendix B. MSEC auctions offer

monthly tranches of firm Capacity and are held in respect of each Aggregate System Entry Point (ASEP). Capacity is allocated in respect of each bid in descending price order starting at the highest bid until all monthly system Entry Capacity has been allocated or all valid bids have been considered. Successful bidders are liable to pay the bid price of each accepted or part accepted bid.

Annual Monthly System Entry Capacity (AMSEC) auctions take place annually in February for Capacity from the April of that year for 18 months.

Following the final AMSEC auction in which Capacity is offered for the Capacity year any remaining quantities of Entry Capacity can be purchased in the RMTNTSEC auction. The RMTNTSEC auction is conducted within the Capacity year and also facilitates trade and transfer of Entry Capacity. The quantities offered are any unsold baseline Capacity carried over from the AMSEC allocations and any Capacity surrendered during the rolling monthly surrender process. Allocations will be completed by the 3rd business day proceeding the last business day of each calendar month. The Capacity offered and subsequently allocated will be applicable for the following month. For unsold and surrendered Capacity sold, allocations are based on a pay as bid basis but for specific allocations rules please refer to section B2.3 of the UNC.

The method that National Grid will use to facilitate the transfer of unsold, or the trade of sold, NTS Firm Entry Capacity from one ASEP to another is set out in the Entry Capacity Transfer and Trades Methodology Statement.

The lowest price that can be accepted in an MSEC allocation is the reserve price as set out in **Table 4**.

Daily System Entry Capacity

National Grid NTS offers two daily Capacity products – a firm Daily System Entry Capacity service (DSEC) and a Daily Interruptible System Entry Capacity service (DISEC). Both services are offered through an auction process and are subject to minimum reserve prices. Successful bidders are liable to pay the bid price of each accepted or part accepted bid. Capacity is allocated, in respect of each bid, in descending price order until all Capacity has been allocated or all valid bids have been considered.

The allocation of DSEC is initiated before the gas day and is repeated at intervals through to 02:00 hours on the gas day. Shippers may have up to 20 bids on the system at any one time. DSEC availability is defined in the UNC as the amount by which System Entry Capacity exceeds firm System Entry Capacity held by shippers plus any additional Daily NTS Entry Capacity that National Grid NTS may choose to make available for the Day.

DISEC is allocated by means of a single auction that is held on the day before the gas day. Shippers may submit up to 20 applications for this Capacity in respect of each ASEP.

DISEC consists of any unutilised firm booked Capacity on a day. National Grid NTS determines the availability of Capacity after consideration of the daily allocation levels at each ASEP on the day before the gas day. If necessary, National Grid NTS may scale back DISEC entitlements.

Additional Discretionary Release Mechanism for NTS Entry Capacity (DRSEC)

There is an additional Capacity release mechanism which allows National Grid to invite applications for monthly (up to a maximum of 12 months) or, daily (up to a maximum of seven consecutive days) Entry Capacity outside of the existing auction mechanisms. The timing of such invitations and the quantities of Entry Capacity offered are at the sole discretion of National Grid. This would be mainly for discretionary Entry Capacity (in addition to baselines) but under certain circumstances may involve small amounts of unsold obligated Capacity. Discretionary Release System Entry Capacity (DRSEC) released via auction is subject to the prevailing MSEC reserve price and available for a period of no more than one Capacity year.

Entry Capacity Reserve Prices

All System Entry Capacity auctions are subject to reserve prices.

Daily reserve prices are calculated by applying the following discounts to the MSEC Capacity prices: Day Ahead Daily System Entry Capacity (DADSEC) 33.3%, Within Day Daily System Entry Capacity (WDDSEC) 100%, Daily Interruptible System Entry Capacity (DISEC) 100%.

The invoice codes and reserve prices applicable to QSEC, MSEC and DSEC sold before the day are shown in **Table 2** and **Table 4**, respectively.

For DSEC sold on the day and DISEC the reserve price is zero.

Table 2 Invoice Codes NTS Entry Capacity

Service	Invoice	Charge Code
QSEC	NTE	LTC
MSEC	NTE	MEC
DSEC	NTE	DFC
DISEC	NTE	DIC

PARCA Entry Weighted Average Price

The calculation of the Entry PARCA Security Amount is calculated based on the weighted average price of the registered quarterly NTS Entry Capacity Reserve Prices.

These prices are used in the calculation for the PARCA Security Amount as part of the PARCA application only.

The Weighted Average Capacity Prices for Entry are given in **Table 3**.

Table 3 Weighted Average Capacity Price for PARCA Security Amount from 1 October 2015

	Rate
	p/kWh/day
Entry Weighted Average Price	0.0128

Table 4 Entry Capacity Reserve Prices for Capacity for use from 1 October 2015

MSEC Reserve Prices Pence per kWh per day			
Entry Point Coastal Terminals & LNG Importation	Y	Y+1 From 1 Oct 16 to 30 Sep 17	
Bacton	0.0104	0.0103	
Barrow	0.0023	0.0048	
Easington & Rough	0.0133	0.0133	
Isle of Grain	0.0030	0.0031	
Milford Haven	0.0229	0.0228	
St Fergus	0.0473	0.0482	
Teesside	0.0105	0.0105	
Theddlethorpe	0.0133	0.0119	
Onshore Fields and Connections			
Burton Point	0.0001	0.0001	
Hatfield Moor	0.0055	0.0048	
Hole House Farm	0.0001	0.0001	
Wytch Farm	0.0001	0.0001	
Storage			
Barton Stacey	0.0001	0.0001	
Canonbie	0.0040	0.0048	
Caythorpe	0.0130	0.0131	
Cheshire	0.0001	0.0001	
Dynevor Arms	0.0001	0.0001	
Fleetwood	0.0029	0.0023	
Garton	0.0137	0.0137	
Glenmavis	0.0140	0.0158	
Hatfield Moor	0.0055	0.0048	
Hornsea	0.0140	0.0139	
Partington	0.0001	0.0001	
Constrained LNG Avonmouth	0.0001	0.0001	
Moffat ¹	0.0074	0.0082	

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¹ The Moffat reserve price is for use in overrun calculations only, no firm Capacity will be released.

Table 4 continued

Entry Point			
Coastal Terminals & LNG Importation	from 1 Oct 14 to 30 Sep 15	from 1 Oct 15 to 30 Sep 16	
Bacton	0.0069	0.0069	
Barrow	0.0015	0.0032	
Easington&Rough	0.0089	0.0089	
Isle of Grain	0.0020	0.0021	
Milford Haven	0.0153	0.0152	
St Fergus	0.0315	0.0321	
Teesside	0.0070	0.0070	
Theddlethorpe	0.0089	0.0079	
Onshore Fields and Connections			
Burton Point	0.0001	0.0001	
Hatfield Moor	0.0037	0.0032	
Hole House Farm	0.0001	0.0001	
Wytch Farm	0.0001	0.0001	
Storage			
Barton Stacey	0.0001	0.0001	
Canonbie	0.0027	0.0032	
Caythorpe	0.0087	0.0087	
Cheshire	0.0001	0.0001	
Dynevor Arms	0.0001	0.0001	
Fleetwood	0.0019	0.0015	
Garton	0.0091	0.0091	
Glenmavis	0.0093	0.0105	
Hatfield Moor	0.0037	0.0032	
Hornsea	0.0093	0.0093	
Partington	0.0001	0.0001	
Constrained LNG			
Avonmouth	0.0001	0.0001	
Moffat	0.0049	0.0055	

Constrained LNG

Shippers that book the constrained Liquefied Natural Gas (LNG) storage service, available from the LNG storage site at Avonmouth, undertake an obligation to provide transmission support gas to National Grid NTS on days of very high demand. In recognition of this, shippers receive a credit in respect of minimum booked storage deliverability. Full details of associated rules are available on request from National Grid NTS's LNG business unit. The credit, shown in **Table 5**, is deducted from the charge for the storage service.

Table 5 Constrained LNG Credit

	Credit Rate based on Capacity	Credit Rate based on Annual Shipper Storage Space Volume
	Pence per registered kWh per day	p/kWh
	From 1 April 15 to	30 April 2016
Avonmouth LNG	0.0000	0.0000

NTS TO Exit Capacity Charges

There are four Capacity products available — Enduring Annual NTS Exit (Flat) Capacity, Annual NTS Exit (Flat) Capacity, Daily Firm NTS Exit (Flat) Capacity and Daily Off-Peak NTS Exit (Flat) Capacity. The Enduring and Enduring Annual products will be released by means of application windows, whilst the Daily Firm and Off-Peak products will be released through auctions. Details of Exit Capacity applications and auctions can be obtained from National Grid Market Operation on 01926 654058 and via email at nts.exitcapacity@nationalgrid.com.

Reserve prices for the Daily Firm Capacity auctions are equal to the Enduring Annual/Annual Capacity charges. The reserve price for Off-Peak Daily Capacity, which is auctioned on a daily day ahead basis, is zero.

The NTS TO Exit (Flat) Capacity invoice codes and charges are given in **Table 6** and **Table 8** respectively.

Please note the **indicative NTS Exit (Flat)** Capacity charges for 2016/17 to 2018/19 are available on our web site in a separate document under Gas Charges / Indicative Charge Changes.

Table 6 Invoice Codes NTS Exit Capacity

Service	Invoice	Charge Code
Enduring Annual	NXC	NXA
Annual	NXC	NXA
Daily Firm	NXC	NXD
Daily Off-Peak	NXC	NXO

PARCA Exit Weighted Average Price

The calculation of the Exit PARCA Security Amount is calculated based on the weighted average price of the registered annual and enduring NTS Exit (Flat) capacity for the applicable year.

These prices are used in the calculation for the PARCA Security Amount as part of the PARCA application only.

The Weighted Average Capacity Prices for Exit Capacity applicable from 1 October 2015 is given in **Table 7**.

Table 7 Weighted Average Capacity Price for PARCA Security Amount from 1 October 2015

	Rate
	p/kWh/day
Exit Weighted Average Price	0.0088

Table 8 NTS TO Exit (Flat) Capacity Charges from 1 October 2015, p/kWh/d

	Type of Offtake	2015/16 from 1 Oct-15 p/kWh/d
Bacton	GDN (EA)	0.0001
Brisley	GDN (EA)	0.0003
Cambridge	GDN (EA)	0.0074
Great Wilbraham	GDN (EA)	0.0063
Matching Green	GDN (EA)	0.0109
Peterborough Eye (Tee)	GDN (EA)	0.0063
Roudham Heath	GDN (EA)	0.0021
Royston	GDN (EA)	0.0084
Whitwell	GDN (EA)	0.0106
West Winch	GDN (EA)	0.0030
Yelverton	GDN (EA)	0.0001
Alrewas (EM)	GDN (EM)	0.0159
Blaby	GDN (EM)	0.0120
Blyborough	GDN (EM)	0.0029
Caldecott	GDN (EM)	0.0093
Thornton Curtis (DN)	GDN (EM)	0.0001
Drointon	GDN (EM)	0.0172
Gosberton	GDN (EM)	0.0041
Kirkstead	GDN (EM)	0.0018
Market Harborough	GDN (EM)	0.0106
Silk Willoughby	GDN (EM)	0.0032
Sutton Bridge	GDN (EM)	0.0050
Tur Langton	GDN (EM)	0.0108
Walesby	GDN (EM)	0.0001
Asselby	GDN (NE)	0.0009
Baldersby	GDN (NE)	0.0025
Burley Bank	GDN (NE)	0.0048
Ganstead	GDN (NE)	0.0001
Pannal	GDN (NE)	0.0053
Paull	GDN (NE)	0.0001
Pickering	GDN (NE)	0.0021
Rawcliffe	GDN (NE)	0.0011
Towton	GDN (NE)	0.0033
Bishop Auckland	GDN (NO)	0.0003
Coldstream	GDN (NO)	0.0001
Corbridge	GDN (NO)	0.0010
Cowpen Bewley	GDN (NO)	0.0001
Elton	GDN (NO)	0.0001
Guyzance	GDN (NO)	0.0001
Humbleton	GDN (NO)	0.0001
Keld	GDN (NO)	0.0085
Little Burdon	GDN (NO)	0.0001

	Type of Offtake	2015/16 from 1 Oct-15 p/kWh/d
Melkinthorpe	GDN (NO)	0.0077
Saltwick Pressure Controlled	GDN (NO)	0.0001
Saltwick Volumetric Controlled	GDN (NO)	0.0001
Thrintoft	GDN (NO)	0.0018
Towlaw	GDN (NO)	0.0025
Wetheral	GDN (NO)	0.0048
Horndon	GDN (NT)	0.0089
Luxborough Lane	GDN (NT)	0.0117
Peters Green	GDN (NT)	0.0110
Peters Green South Mimms	GDN (NT)	0.0110
Winkfield (NT)	GDN (NT)	0.0208
Audley (NW)	GDN (NW)	0.0211
Blackrod	GDN (NW)	0.0179
Ecclestone	GDN (NW)	0.0248
Holmes Chapel	GDN (NW)	0.0225
Lupton	GDN (NW)	0.0114
Malpas	GDN (NW)	0.0233
Mickle Trafford	GDN (NW)	0.0246
Partington	GDN (NW)	0.0211
Samlesbury	GDN (NW)	0.0163
Warburton	GDN (NW)	0.0208
Weston Point	GDN (NW)	0.0257
Aberdeen	GDN (SC)	0.0001
Armadale	GDN (SC)	0.0001
Balgray	GDN (SC)	0.0001
Bathgate	GDN (SC)	0.0001
Burnervie	GDN (SC)	0.0001
Broxburn	GDN (SC)	0.0001
Careston	GDN (SC)	0.0001
Drum	GDN (SC)	0.0001
St Fergus	GDN (SC)	0.0001
Glenmavis	GDN (SC)	0.0001
Hume	GDN (SC)	0.0001
Kinknockie	GDN (SC)	0.0001
Langholm	GDN (SC)	0.0021
Lauderhill	GDN (SC)	0.0001
Lockerbie	GDN (SC)	0.0011
Netherhowcleugh	GDN (SC)	0.0001
Pitcairngreen	GDN (SC)	0.0001
Soutra	GDN (SC)	0.0001
Stranraer	GDN (SC)	0.0001
Farningham	GDN (SE)	0.0090
Farningham B	GDN (SE)	0.0090
Shorne	GDN (SE)	0.0079
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Tatsfield GDN (SE) 0.0110 Winkfield (SE) GDN (SE) 0.0208 Braishfield A GDN (SO) 0.0248 Braishfield B GDN (SO) 0.0233 Crawley Down GDN (SO) 0.0149 Ipsden GDN (SO) 0.0185 Ipsden 2 GDN (SO) 0.0266 Winkfield (SO) GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0206 Winkfield (SO) GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0078 Fiddington GDN (SW) 0.0182 Kenn GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0221 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0135 Ross (SW) GDN (SW) <td< th=""><th></th><th>Type of Offtake</th><th>2015/16 from 1 Oct-15 p/kWh/d</th></td<>		Type of Offtake	2015/16 from 1 Oct-15 p/kWh/d
Braishfield A GDN (SO) 0.0248 Braishfield B GDN (SO) 0.0248 Crawley Down GDN (SO) 0.0233 Hardwick GDN (SO) 0.0149 Ipsden GDN (SO) 0.0185 Ipsden 2 GDN (SO) 0.0185 Mappowder GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0260 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Friddington GDN (SW) 0.0078 Ichester GDN (SW) 0.0182 Kenn GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0242 Lyneham (Choakford) GDN (SW) 0.0136 Ross (SW) GDN (SW) 0.0157 Aspley GDN (SW) 0.0157	Tatsfield	GDN (SE)	
Braishfield B GDN (SO) 0.0248 Crawley Down GDN (SO) 0.0233 Hardwick GDN (SO) 0.0149 Ipsden GDN (SO) 0.0185 Ipsden A GDN (SO) 0.0185 Ipsden A GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0078 Ilchester GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0169 <	Winkfield (SE)	GDN (SE)	0.0208
Crawley Down GDN (SO) 0.0233 Hardwick GDN (SO) 0.0149 Ipsden GDN (SO) 0.0185 Ipsden 2 GDN (SO) 0.0206 Minkfield (SO) GDN (SO) 0.0206 Winkfield (SO) GDN (SW) 0.0230 Aylesbeare GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0117 Easton Grey GDN (SW) 0.0078 Easton Grey GDN (SW) 0.0078 Fiddington GDN (SW) 0.0078 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0221 Pucklechurch GDN (SW) 0.0126 Ross (SW) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0193	Braishfield A	GDN (SO)	0.0248
Hardwick	Braishfield B	GDN (SO)	0.0248
Ipsden GDN (SO) 0.0185 Ipsden 2 GDN (SO) 0.0185 Ipsden 2 GDN (SO) 0.0206 Mappowder GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0084 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0182 Kenn GDN (SW) 0.0182 Littleton Drew GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0241 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM) 0.0159 Audley (WM) GDN (WM) 0.0152 Leamington GDN (WM) 0.0172 Leamington GDN (WM) 0.0179 Ross (SWM) GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WM) 0.0092 Maelor GDN (WM) 0.0001 Gilvern GDN (WS) 0.0001 Gilvern GDN (WS) 0.0001 Gilvern GDN (WS) 0.0001 Gilvern GDN (WS) 0.0001 Grerny Knoll (AM Paper) DC 0.0089 Barrow (Black Start) DC 0.0074	Crawley Down	GDN (SO)	0.0233
Ipsden 2 GDN (SO) 0.0185 Mappowder GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0078 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0242 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM)	Hardwick	GDN (SO)	0.0149
Mappowder GDN (SO) 0.0206 Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0064 Hiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0242 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alzewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0152 Leamington GDN (WM) 0.0162 Leamington GDN (WM) 0.0017	Ipsden	GDN (SO)	0.0185
Winkfield (SO) GDN (SO) 0.0208 Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0193 Austrey GDN (WM) 0.0162 Learnington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0017 <td>lpsden 2</td> <td>GDN (SO)</td> <td>0.0185</td>	lpsden 2	GDN (SO)	0.0185
Aylesbeare GDN (SW) 0.0230 Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.00117 Evesham GDN (SW) 0.0064 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0242 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.032 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0016 Milwich GDN (WM) 0.00179 Ross (WM) GDN (WM) 0.0016 <td>Mappowder</td> <td>GDN (SO)</td> <td>0.0206</td>	Mappowder	GDN (SO)	0.0206
Cirencester GDN (SW) 0.0111 Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Aspley GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Learnington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0199	Winkfield (SO)	GDN (SO)	0.0208
Coffinswell GDN (SW) 0.0260 Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0084 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Learnington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.00179 Ross (WM) GDN (WM) 0.0032	Aylesbeare	GDN (SW)	0.0230
Easton Grey GDN (SW) 0.0117 Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Aspley GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (VM) GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0152 Learnington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.00179 Ross (WM) GDN (WM) 0.00179 Ross (WM) GDN (WM) 0.00179 Shustoke GDN (WM) 0.01165 <td>Cirencester</td> <td>GDN (SW)</td> <td>0.0111</td>	Cirencester	GDN (SW)	0.0111
Evesham GDN (SW) 0.0078 Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) 0.0193 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0009 Milwich GDN (WM) 0.0079 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.00242	Coffinswell	GDN (SW)	0.0260
Fiddington GDN (SW) 0.0064 Ilchester GDN (SW) 0.0182 Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0159 Aspley GDN (WM) 0.0193 Audley (VM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0079 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0024 Dowlais GDN (WS) 0.0001	Easton Grey	GDN (SW)	0.0117
Ilchester GDN (SW) 0.0182	Evesham	GDN (SW)	0.0078
Kenn GDN (SW) 0.0242 Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0010 Milwich GDN (WM) 0.00179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0019 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0001 Dowlais GDN (WS) 0.0001 <tr< td=""><td>Fiddington</td><td>GDN (SW)</td><td>0.0064</td></tr<>	Fiddington	GDN (SW)	0.0064
Littleton Drew GDN (SW) 0.0126 Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0079 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WS) 0.0001 Dowlais GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181	Ilchester	GDN (SW)	0.0182
Lyneham (Choakford) GDN (SW) 0.0291 Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0022 Maelor GDN (WM) 0.0092 Maelor GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0004 </td <td>Kenn</td> <td>GDN (SW)</td> <td>0.0242</td>	Kenn	GDN (SW)	0.0242
Pucklechurch GDN (SW) 0.0135 Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Learnington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0092 Maelor GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.00074	Littleton Drew	GDN (SW)	0.0126
Ross (SW) GDN (SW) 0.0032 Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0019 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.00074	Lyneham (Choakford)	GDN (SW)	0.0291
Seabank (DN) GDN (SW) 0.0157 Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0079 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.00242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0004 Barrow (Black Start) DC 0.0074	Pucklechurch	GDN (SW)	0.0135
Alrewas (WM) GDN (WM) 0.0159 Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) 0.0179 Ross (WM) 0.0119 Shustoke GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WM) 0.0092 Maelor GDN (WN) 0.0092 Maelor GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.00089 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Ross (SW)	GDN (SW)	0.0032
Aspley GDN (WM) 0.0193 Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0004 Barrow (Black Start) DC 0.0074	Seabank (DN)	GDN (SW)	0.0157
Audley (WM) GDN (WM) 0.0211 Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Alrewas (WM)	GDN (WM)	0.0159
Austrey GDN (WM) 0.0152 Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Aspley	GDN (WM)	0.0193
Leamington GDN (WM) 0.0107 Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Audley (WM)	GDN (WM)	0.0211
Lower Quinton GDN (WM) 0.0090 Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Austrey	GDN (WM)	0.0152
Milwich GDN (WM) 0.0179 Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Leamington	GDN (WM)	0.0107
Ross (WM) GDN (WM) 0.0032 Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Lower Quinton	GDN (WM)	0.0090
Rugby GDN (WM) 0.0119 Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Milwich	GDN (WM)	0.0179
Shustoke GDN (WM) 0.0165 Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Ross (WM)	GDN (WM)	0.0032
Stratford-upon-Avon GDN (WM) 0.0092 Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Rugby	GDN (WM)	0.0119
Maelor GDN (WN) 0.0242 Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Shustoke	GDN (WM)	0.0165
Dowlais GDN (WS) 0.0001 Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Stratford-upon-Avon	GDN (WM)	0.0092
Dyffryn Clydach GDN (WS) 0.0001 Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Maelor	GDN (WN)	0.0242
Gilwern GDN (WS) 0.0001 Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Dowlais	GDN (WS)	0.0001
Ferny Knoll (AM Paper) DC 0.0181 Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Dyffryn Clydach	GDN (WS)	0.0001
Tonna (Baglan Bay) DC 0.0001 Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Gilwern	GDN (WS)	0.0001
Barking (Horndon) DC 0.0089 Barrow (Black Start) DC 0.0074	Ferny Knoll (AM Paper)	DC	0.0181
Barrow (Black Start) DC 0.0074	Tonna (Baglan Bay)	DC	0.0001
	Barking (Horndon)	DC	0.0089
	Barrow (Black Start)	DC	0.0074
Billingham ICI (Terra Billingham) DC 0.0001	Billingham ICI (Terra Billingham)	DC	0.0001
Bishop Auckland (test facility) DC 0.0003	Bishop Auckland (test facility)	DC	0.0003

	Type of Offtake	2015/16 from 1 Oct-15 p/kWh/d
Blackness (BP Grangemouth)	DC	0.0001
Saltend BPHP (BP Saltend HP)	DC	0.0001
Shotwick (Bridgewater Paper)	DC	0.0256
Blyborough (Brigg)	DC	0.0040
Epping Green (Enfield Energy, aka Brimsdown)	DC	0.0120
Brine Field (Teesside) Power Station	DC	0.0001
Pickmere (Winnington Power, aka Brunner Mond)	DC	0.0217
Carrington (Partington) Power Station	DC	0.0211
Centrax Industrial	DC	0.0258
Cockenzie Power Station	DC	0.0001
Burton Point (Connahs Quay)	DC	0.0260
Caldecott (Corby Power Station)	DC	0.0097
Stanford Le Hope (Coryton)	DC	0.0086
Coryton 2 (Thames Haven) Power Station	DC	0.0086
Blyborough (Cottam)	DC	0.0029
Middle Stoke (Damhead Creek, aka Kingsnorth Power Station)	DC	0.0064
Deeside	DC	0.0260
Didcot PS	DC	0.0188
Drakelow Power Station	DC	0.0154
Enron Billingham	DC	0.0001
Goole (Guardian Glass)	DC	0.0015
Grain Power Station	DC	0.0064
Bacton (Great Yarmouth)	DC	0.0001
Hatfield Power Station	DC	0.0011
Hollingsgreen (Hays Chemicals)	DC	0.0224
Weston Point (Castner Kelner, aka ICI Runcorn)	DC	0.0257
Thornton Curtis (Humber Refinery, aka Immingham)	DC	0.0001
Eastoft (Keadby Blackstart)	DC	0.0028
Eastoft (Keadby)	DC	0.0028
Shellstar (aka Kemira, not Kemira CHP)	DC	0.0253
Saddle Bow (Kings Lynn)	DC	0.0033
Langage Power Station	DC	0.0291
St. Neots (Little Barford)	DC	0.0106
Gowkhall (Longannet)	DC	0.0001
Marchwood Power Station	DC	0.0250

	Type of Offtake	2015/16 from 1 Oct-15
Medway (aka Isle of Grain Power		p/kWh/d
Station, NOT Grain Power)	DC	0.0065
Upper Neeston (Milford Haven		
Refinery)	DC	0.0001
Blackbridge (Pembroke PS)	DC	0.0001
Peterborough (Peterborough	D O	0.007
Power Station)	DC	0.0067
St. Fergus (Peterhead)	DC	0.0001
Phillips Petroleum, Teeside	DC	0.0001
Weston Point (Rocksavage)	DC	0.0257
Glasgoforest	DC	0.0001
Roosecote (Roosecote Power		
Station)	DC	0.0074
Ryehouse	DC	0.0125
Rosehill (Saltend Power Station)	DC	0.0001
Sandy Lane (Blackburn CHP, aka	DC	0.0467
Sappi Paper Mill)	DC	0.0167
Seabank (Seabank Power	DC	0.0455
Station phase II)	DC	0.0155
Abson (Seabank Power Station	DC	0.0135
phase I)	БС	0.0133
Sellafield Power Station	DC	0.0120
Terra Nitrogen (aka ICI, Terra	DC	0.0154
Severnside)	50	0.0134
Harwarden (Shotton, aka Shotton	DC	0.0259
Paper)		0.0200
Wragg Marsh (Spalding)	DC	0.0045
Spalding 2 (South Holland)	DC	0.0045
Power Station		0.00 10
St. Fergus (Shell Blackstart)	DC	0.0001
Stallingborough (phase 1 and 2)	DC	0.0001
Staythorpe PH1 and PH2	DC	0.0062
Sutton Bridge Power Station	DC	0.0048
Teesside (BASF, aka BASF	DC	0.0001
Teesside)		
Teesside Hydrogen	DC	0.0001
Thornton Curtis (Killingholme)	DC	0.0001
Tilbury Power Station	DC	0.0082
Trafford PS	DC	0.0211
Apache	DC	0.0001
Seal Sands TGPP	DC	0.0001
West Burton PS	DC	0.0030
Willington Power Station	DC	0.0170
Wyre Power Station	DC	0.0155
Zeneca (ICI Avecia, aka 'Zenica')	DC	0.0001

	Type of Offtake	2015/16 from 1 Oct-15 p/kWh/d
Bacton IUK	INTERCONNECTOR	0.0001
Bacton BBL	INTERCONNECTOR	0.0001
Moffat (Irish Interconnector)	INTERCONNECTOR -	0.0001
Monat (man interconnector)	FIRM, EXIT ONLY	0.0001
Avonmouth Max Refill	STORAGE SITE	0.0155
Bacton (Baird)	STORAGE SITE	0.0001
Deborah Storage (Bacton)	STORAGE SITE	0.0001
Barrow (Bains)	STORAGE SITE	0.0074
Barrow (Gateway)	STORAGE SITE	0.0074
Barton Stacey Max Refill (Humbly Grove)	STORAGE SITE	0.0230
Caythorpe	STORAGE SITE	0.0001
Cheshire (Holford)	STORAGE SITE	0.0224
Dynevor Max Refill	STORAGE SITE	0.0001
Rough Max Refill	STORAGE SITE	0.0001
Garton Max Refill (Aldbrough)	STORAGE SITE	0.0001
Glenmavis Max Refill	STORAGE SITE	0.0001
Hatfield Moor Max Refill	STORAGE SITE	0.0020
Hole House Max Refill	STORAGE SITE	0.0223
Hornsea Max Refill	STORAGE SITE	0.0001
Partington Max Refill	STORAGE SITE	0.0211
Stublach (Cheshire)	STORAGE SITE	0.0224
Saltfleetby Storage (Theddlethorpe)	STORAGE SITE	0.0001
Hill Top Farm (Hole House Farm)	STORAGE SITE	0.0223

NTS Interconnection Point (IP) Capacity

From 1 November 2015 there are new UNC terms which are applicable for Interconnection Points (IPs). For both Entry and Exit Capacity there are a number of new auctions as specified in European Interconnection Document (EID) Section B – Capacity.

There are two different types of auctions, as specified in EID Section B:

- Ascending Clock Auctions, which are for the Annual Yearly, Annual Quarterly and Rolling Monthly
- Uniform Price Auctions, which are for the Rolling Day Ahead and Within Day

All auctions have reserve prices which are applicable for the specific auction.

For the Ascending Clock Auctions there is also an applicable Large Price Step which is the greater of 5% of the applicable reserve price or 0.0001 p/kWh/day. Each small price step is 1/5th of an applicable Large Price Step.

Entry Interconnection Point (IP) Auctions

NTS IP Entry Annual Yearly and Entry Annual Quarterly Capacity

These auctions will take place in March 2016 and June 2016 for capacity from 1 October 2016. The Reserve Prices will be published in January 2016.

NTS IP Entry Rolling Monthly Capacity

IP Rolling Monthly Capacity Reserve Prices are applicable from 1 November 2015, these are produced at the same time and using the same methodology as the MSEC prices. The Reserve Prices are given in **Table 9**.

Table 9 Reserve Prices, Interconnection Points (IPs) for the Entry Rolling Monthly auctions, Pence per kWh per day

EU Interconnector Points (IPs)	from 1 Nov 15
Bacton IP	0.0104
Moffat Interconnector	0.0074

NTS IP Entry Rolling Day Ahead Capacity

IP Rolling Day Ahead Capacity Reserve Prices are applicable from 1 November 2015, these are produced at the same time and using the same methodology as the DSEC prices. The Rolling Day Ahead Reserve Prices have a 33.3% discount applied to the IP Rolling Monthly Capacity Prices. The Reserve Prices are given in **Table 10**.

The Reserve Price for IP Entry Interruptible Rolling Day Ahead capacity auction, which is auctioned on a daily day ahead basis, is zero.

Table 10 Reserve Prices, Interconnection Points (IPs) for the Entry Rolling Day Ahead auctions, Pence per kWh per day

EU Interconnector Points (IPs)	from 1 Nov 15
Bacton IP	0.0069
Moffat Interconnector	0.0049

NTS Interconnection Point (IP) Entry Within Day Capacity Prices

The reserve price for IP Entry Within Day capacity auction, which is auctioned after the day ahead auctions, is zero.

Exit Interconnection Point (IP) Auctions

NTS IP Exit Annual Yearly and Exit Annual Quarterly Capacity

These auctions will take place in March 2016 and June 2016 for capacity from 1 October 2016. The Reserve Prices for IP Exit Annual Yearly Auction will be the indicative price produced for 2016/17 in May 2015 and the reserve price for the IP Exit Annual Quarterly auction will be published in May 2016.

NTS IP Exit Rolling Monthly, Exit Rolling Day Ahead, Exit Within Day Capacity

From 1 November 2015 there are three IP Exit auctions available:

- Exit Rolling Monthly
- · Exit Rolling Day Ahead
- Exit Within Day Capacity

Prices are applicable from 1 November 2015, these are produced at the same time as the NTS Exit Capacity charges.

Reserve Prices for the Exit Rolling Monthly, Exit Rolling Day Ahead, Exit Within Day Capacity are the same rates and given in **Table 11**. The Reserve Price for IP Interruptible Rolling Day Ahead Capacity auction, which is auctioned on a daily day ahead basis, is zero.

Table 11 Reserve Prices, Interconnection
Points (IPs) for the Entry Rolling Monthly, Day
Ahead and Within Day auctions, Pence per
kWh per day

EU Interconnector Points (IPs)	from 1 Nov 15
Bacton IUK	0.0001
Bacton BBL	0.0001
Moffat (Irish Interconnector)	0.0001

Details of Exit Capacity applications and auctions can be obtained from National Grid Market Operation on 01926 654058 and via email at nts.exitcapacity@nationalgrid.com.

NTS Commodity Charges

NTS Commodity charges are payable on gas allocated to shippers at Exit and Entry. Commodity charges on gas flows at NTS Storage facilities, other than on the amount of gas utilised as part of the operation of any NTS Storage facility, known as storage "own use" gas are zero. The NTS Commodity charges are uniform rates, independent of Entry or Exit points.

NTS TO Entry Commodity Charge

The NTS TO Entry Commodity charge may be levied where an under-recovery of TO Entry revenue against the Entry target level is forecast. The charge is levied on entry flows only at Entry terminals (but not storage facilities) and would address only a forecast TO revenue under-recovery that does not arise from NTS Exit Capacity charging. For the avoidance of doubt, the TO Entry Commodity rate would be set to zero where forecast Entry TO revenue is at, or above, the Entry revenue target level.

The rate is identified in the Commodity schedule given in **Table 12**.

NTS TO Entry Commodity Charge Rebate

The TO Entry Commodity rebate mechanism has been introduced to reduce any TO over-recovery resulting from NTS Entry Capacity auctions. The process may be triggered at the end of the formula year based on the outcome of all NTS Entry Capacity auctions that represent a TO revenue stream. This mechanism will only be triggered if there remains a residual overrecovery amount after taking into account any revenue redistributed by the buy-back offset mechanism (as defined in 2.3.2 of Section Y (Charging Methodologies) in the Uniform Network Code (UNC) if this residual overrecovery is in excess of £1m (this equates to the minimum TO Entry Commodity charge of 0.0001 p/kWh).

NTS TO Entry Commodity Charge Credit

The TO Entry Commodity credit mechanism, which represents a retrospective negative TO Entry Commodity charge, will be used if there remains a residual over-recovery amount after taking into account any revenue redistributed via the TO Entry Commodity rebate mechanism. Credits will be paid following the end of the formula year.

NTS TO Exit Commodity Charge

A TO Exit (Flat) Commodity charge has been introduced to offset any under recovery arising from a shortfall between NTS Exit (Flat) capacity charges and TO Exit allowed revenue. Any TO Exit over-recovery will be dealt with through the k mechanism for TO Exit.

The rate is identified in the Commodity schedule given in **Table 12**.

NTS SO Commodity Charge

The NTS SO Commodity charge is a uniform rate, independent of Entry and Exit points, and is levied on both NTS Entry and NTS Exit flows.

The rate is identified in **Table 12** below.

Table 12 NTS Commodity Charges

Invoice	Charge Code
ECO	NCE

	Pence per kWh
TO Entry	0.0481
SO Entry	0.0148
Combined Entry Rate	0.0629

Invoice	Charge	Code
COM	NC	0

	Pence per kWh
TO Exit	0.0209
SO Exit	0.0148
Combined Exit Rate	0.0357

Both the NTS Entry Commodity (NCE) and NTS Exit Commodity (NCO) will be invoiced using the combined rates.

NTS Optional Commodity Charge

The Optional NTS Commodity charge (known as the shorthaul rate) is available as an alternative to both the Entry / Exit NTS SO and TO Commodity charges. It may be attractive for large daily metered sites located near to Entry terminals, since the NTS SO and TO Commodity charges are not distance-related and can result in a relatively high charge for short distance transportation. This could give perverse economic incentives to build dedicated pipelines bypassing the NTS, resulting in an inefficient outcome for all system users.

The Optional Commodity charge applies in respect of gas delivered from the local specified terminal. The charge is site specific and is calculated by the function shown in **Table 13**.

Table 13 NTS Optional Commodity Charge

Invoice	Charge Code
ADU	880

Pence per kWh
1203 x [(SOQ)^{^0.834}] x D + 363 x (SOQ) ^{^0.654}

where **D** is the direct distance from the site or non-National Grid NTS pipeline to the elected terminal in km and **SOQ** is Maximum NTS Exit Point Offtake Rate (MNEPOR) converted into kWh/day at the site. Note that $^{\mbox{\scriptsize heans}}$ "to the power of ..."

Further information on NTS Optional Commodity charge, please contact Colin Williams on **01926 655916** or Karin Elmhirst on **01926 655540** or email

box.transmissioncapacityandcharging@nationalgrid.com

Compression Charge

An additional charge is payable where gas is delivered into the National Grid NTS system at a lower pressure than that required, reflecting the need for additional compression. For gas delivered at the Total Oil Marine sub-terminal at St. Fergus, a compression charge is payable at the rate identified in **Table 14.**

Table 14 St. Fergus Compression Charge

Invoice	Charge Code
ADZ	900

	Pence per kWh
Compression	0.0152

Other Charges

Other Charges include DN Pension Deficit charges, metering charges and administration charges at Connected System Exit Points, Shared Supply Meter Points and Interconnectors.

DN Pension Deficit Charge

The share of the pension deficit cost allowance associated with former employees of the DNs is recovered via the DN Pension Deficit Charges levied on each of the DNs on a monthly basis. The monthly charges for the financial year 2015/16 are shown in **Table 15** DN Pension Deficit Charge below.

Table 15 DN Pension Deficit Charge

Invoice	Charge Code
ADN	N23

DN	Monthly Charge, £	Per Annum, £m
East of England	911,521	10.94
London	531,406	6.38
North West	625,962	7.51
West Midlands	451,978	5.42
North of England	580,575	6.97
Scotland	400,918	4.81
South of England	928,541	11.14
Wales and the West	555,990	6.67

Metering Charges

Table 16 below shows a schedule of National Grid NTS's metering charges to apply from 1 April 2015. National Grid NTS provides metering charges for those services that it is obliged to offer under its Gas Transporter Licence coupled with those services that are currently offered for historical / legacy purposes i.e. where a Datalogger or Converter has been fitted at an NTS Site or there is a maintenance requirement for an NTS High Pressure Meter Installation.

Table 16 Annual Rental Charges

High Pressure Metering Installations (>7 barg)

Capacity (scmh)	< 10,192	>=10,192<14,906	>=14,906<25,878	>=25,878<36,866	>=36,866<63,524	>=63,524
£ per annum Maintenance	£13,709.31	£14,546.20	£16,451.95	£17,123.37	£18,798.22	£24,280.85
Pence per day Maintenance	3,755.98	3,985.26	4,507.38	4,691.33	5,150.20	6,652.29

Rotary and Turbine meters

Capacity (scmh)	Rotary ≥28 <57	Turbine <283
£ per annum Maintenance	£350.52	£843.02
Pence per day Maintenance	96.0320	230.9656

Volume converters (Correctors)

	Pence per day	£ per annum
Provision	44.4919	£162.40
Installation	17.9352	£65.46
Maintenance	40.4250	£147.55

Charges are only applied only where a Volume Converter has been installed. Any requests for a Volume Converter to be fitted will be treated in accordance with National Grid's GT Licence and will be quoted on an individual basis.

Dataloggers

	Pence per day	£ per annum
Provision	11.0657	40.39
Installation	49.3699	180.20
Maintenance	74.6795	272.58
Total	135.1151	493.17

The above charges are only applied where a Datalogger has been installed.

Connected System Exit Points (CSEPs)

A CSEP is a system point comprising one or more individual exit points which are not supply meter points. Separate administration processes are required to manage the daily operations and invoicing associated with CSEPs for which an administration charge is made.

The administration charge which applies to CSEPs containing NDM and DM sites is given in **Table 17.**

Table 17 CSEP Administration Charge

Invoice	Charge Code
ADU	884

Charge per supply	0.0910 pence per day
point	(£0.33 per annum)

Shared Supply Meter Point Allocation Arrangements

National Grid NTS offers an allocation service for daily metered supply points with AQs of more than 58,600 MWh per annum. This allows up to four (six for VLDMCs) shippers / suppliers to supply gas through a shared supply meter point.

The allocation of daily gas flows between the shippers / suppliers can be done either by an appointed agent or by National Grid NTS.

The administration charges which relate to these arrangements are shown in **Table 18**. Individual charges depend on the type of allocation service nominated and whether the site is telemetered or non-telemetered.

Table 18 Shared Supply Meter Point Administration Charges (£ per shipper per supply point)

Invoice	Charge Code
ADU	884

Agent Service	Telemetered	Non-telemetered
Set-up charge	£107.00	£183.00
Shipper-shipper transfer charge	£126.00	£210.00
Daily charge	£2.55	£2.96

National Grid NTS Service	Telemetered	Non-telemetered
Set-up charge	£107.00	£202.00
Shipper-shipper transfer charge	£126.00	£210.00
Daily charge	£2.55	£3.05

Allocation Arrangements at Interconnectors

The allocation charges that apply at interconnectors (GB-Ireland and UK-Continent) and apply for each supply point are shown in **Table 19** Allocating daily gas flows between shippers / suppliers can be done either by an appointed agent or by National Grid NTS. The same set up charge applies in either case. The daily charge depends on whether the service is provided through an agent or not.

Table 19 Allocation Charges at Interconnectors

Invoice	Charge Code
ADU	884

	Set up charge per shipper	Daily charge per shipper
Agent service	£141.70	£1.62
National Grid NTS service	£141.70	£2.46

Administration Charges at Moffat

The following administration charges apply only to the GB-Ireland interconnector at Moffat. The charges, which vary if the service is provided via an agent or National Grid NTS, are detailed in **Table 20** below.

Table 20 Administration Charges for Moffat

Invoice	Charge Code
ADU	884

	Daily charge per shipper
Agent service	£0.00
National Grid NTS service	£0.00

The charges, with or without an agent, cover the operation of the flow control valve. In addition the National Grid NTS service provides the Exit Flow Profile Notice (EPN). In the event that the appointed agent fails to provide an EPN to National Grid NTS, the following additional charge will apply:

EPN Default Charge per shipper per event is £0.00.

Non-incremental Obligated Entry capacity is the sum of the Licence Baseline capacity adjusted for substitution and legacy TO Entry capacity as shown in the tables below.

Table 21 below details the Licence baseline obligated Entry capacity GWh/day identified in National Grid NTS's Transporters Licence and used as the basis for determination of minimum annual quantities to be offered after 1 April 2013. After 1 November 2015 the Licence baseline will change for Bacton and can be seen within Table 22 below.

Table 23 and Table 24 show Entry capacity Substitution and Legacy TO Entry Capacity, respectively.

Table 21 Licence Baseline Entry Capacity (GWh/day)

	Baseline		
Terminal	Capacity		
Bacton	1,783.4		
Barrow	309.1		
Easington/Rough	1,062.0		
Isle of Grain	218.0		
Milford Haven	0		
St Fergus	1,670.7		
Teesside	476.0		
Theddlethorpe	610.7		
Burton Point	73.5		
Hatfield Moor (onshore)	0.3		
Hole House Farm	131.6		
Wytch Farm	3.3		
Barton Stacey	172.6		
Cheshire	285.9		
Fleetwood	0		
Garton	420.0		
Glenmavis	99.0		
Hatfield Moor (storage)	25.0		
Hornsea	175.0		
Partington	215.0		
Avonmouth	179.3		

Terminal	Baseline Capacity
Dynevor Arms	49.0
Burton Agnes (Caythorpe)	0
Winkfield	0
Blyborough (Welton)	0
Tatsfield	0
Albury	0
Palmers Wood	0
Portland	0
Canonbie	0
Moffat	0

Table 22 Licence Baseline Entry Capacity (GWh/day) after 01 November 2015

NTS Entry Point	Type of Entry	Baseline Capacity (in GWh/d)		
Bacton UKCS	Beach Terminal	485.6		
Bacton IP	Interconnection Point	1297.8		
Barrow	Beach Terminal	309.1		
Easington	Beach Terminal	1,062.0		
Isle of Grain	LNG Importation Terminal	218.0		
Milford Haven	LNG Importation Terminal	0		
St Fergus	Beach Terminal	1,670.7		
Teesside	Beach Terminal	476.0		
Theddlethorpe	Beach Terminal	610.7		
Burton Point	Onshore Field	73.5		
Hatfield Moor (onshore)	Onshore Field	0.3		
Hole House Farm	Storage Site	131.6		
Wytch Farm	Onshore Field	3.3		
Barton Stacey	Storage Site	172.6		
Cheshire	Storage Site	285.9		
Fleetwood	Storage Site	0		
Garton	Storage Site	420.0		
Glenmavis	Storage Site	99.0		
Hatfield Moor (storage)	Storage Site	25.0		
Hornsea	Storage Site	175.0		
Partington	Storage Site	215.0		

Avonmouth	Storage Site	179.3
Dynevor Arms	Storage Site	49.0
Burton Agnes (Caythorpe)	Storage Site	0
Winkfield	Storage Site	0
Blyborough (Welton)	Storage Site	0
Tatsfield	Storage Site	0
Albury	Storage Site	0
Palmers Wood	Storage Site	0
Portland	Storage Site	0
Canonbie	Onshore Field	0
Moffat	Interconnection Point	0

Table 23 Entry Capacity Substitution

Terminal	Date when substitution applies	Entry Capacity Substitution GWh/d		
Barrow	January 2015	30.91		
Teesside	January 2015	-30.91		

Table 24 Legacy TO Entry Capacity

Terminal	Date applicable	Capacity GWh/d		
Milford Haven	April 2017	650		
Milford Haven	April 2017	300		
Isle of Grain	April 2017	235.4		
Easington	April 2017	345		
Hornsea	April 2017	58.1		
Fleetwood	April 2017	650		
Cheshire	April 2017	64.2		
Cheshire	April 2017	192.6		
Isle of Grain	October 2015	246.24		
Caythorpe	October 2016	90		
Hole House Farm	October 2016	165		

Appendix B AMSEC Entry Capacity

Obligated system Entry capacity offered in Annual System Entry Capacity auctions is determined in accordance with National Grid NTS's Transporters Licence.

National Grid will conduct the MSEC auctions and will publish the quantity of System Entry Capacity being offered for each month in the Capacity Period in respect of each Aggregate System Entry Point along with reserve prices in an invitation letter to the community. The letter will also be sent by E-Mail and fax (business hours operational list) and will be posted on the National Grid web site under Gas/Operational Data/Capacity Auctions.

Appendix C QSEC Entry Capacity

Obligated system Entry capacity to be offered in the next Annual System Entry Capacity auctions is determined in accordance with National Grid NTS's Transporters Licence. For periods that are subject to a QSEC allocation, then supply can be further expanded in accordance with National Grid NTS's ECR statement.

National Grid will conduct the QSEC auctions and will publish the quantity of System Entry Capacity being offered for each month in the Capacity Period in respect of each Aggregate System Entry Point along with reserve prices in an invitation letter to the community. The letter will also be sent by E-Mail and fax (business hours operational list) and will be posted on the National Grid web site under Gas/Operational Data/Capacity Auctions.

Appendix D QSEC Step Prices 2015

Below are the Entry capacity reserve prices together with the price steps for each level of incremental capacity for use in the March 2015 auction of Quarterly System Entry Capacity (QSEC).

					Easington			Isle of	Milford			Theddle-
	Bacton	Barrow	Cheshire	Canonbie	&Rough	Fleetwood	Garton	Grain	Haven	St Fergus	Teesside	thorpe
Obligated Level	0.0089	0.0006	0.0001	0.0025	0.0122	0.0008	0.0122	0.0001	0.0216	0.0451	0.0082	0.0118
2.5%	0.0095	0.0012	0.0002	0.0026	0.0123	0.0009	0.0123	0.0002	0.0217	0.0469	0.0083	0.0120
5.0%	0.0096	0.0013	0.0015	0.0027	0.0124	0.0010	0.0124	0.0012	0.0218	0.0470	0.0093	0.0121
7.5%	0.0097	0.0014	0.0016	0.0028	0.0125	0.0011	0.0125	0.0013	0.0219	0.0471	0.0094	0.0122
10.0%	0.0099	0.0015	0.0020	0.0029	0.0126	0.0012	0.0126	0.0014	0.0220	0.0473	0.0095	0.0125
12.5%	0.0108	0.0016	0.0021	0.0030	0.0127	0.0013	0.0135	0.0015	0.0221	0.0481	0.0097	0.0126
15.0%	0.0109	0.0017	0.0044	0.0031	0.0136	0.0019	0.0136	0.0016	0.0222	0.0487	0.0098	0.0127
17.5%	0.0110	0.0018	0.0045	0.0035	0.0137	0.0020	0.0137	0.0017	0.0229	0.0488	0.0099	0.0128
20.0%	0.0111	0.0019	0.0051	0.0036	0.0138	0.0026	0.0138	0.0021	0.0230	0.0494	0.0103	0.0133
22.5%	0.0112	0.0020	0.0052	0.0037	0.0139	0.0027	0.0139	0.0024	0.0231	0.0495	0.0106	0.0134
25.0%	0.0122	0.0021	0.0053	0.0038	0.0140	0.0028	0.0140	0.0095	0.0232	0.0518	0.0107	0.0135
27.5%	0.0124	0.0022	0.0054	0.0039	0.0141	0.0029	0.0141	0.0096	0.0233	0.0520	0.0108	0.0136
30.0%	0.0134	0.0023	0.0055	0.0040	0.0150	0.0074	0.0142	0.0097	0.0234	0.0521	0.0117	0.0137
32.5%	0.0135	0.0024	0.0056	0.0041	0.0151	0.0075	0.0143	0.0098	0.0235	0.0522	0.0120	0.0138
35.0%	0.0142	0.0025	0.0057	0.0042	0.0152	0.0077	0.0144	0.0099	0.0236	0.0523	0.0121	0.0139
37.5%	0.0148	0.0026	0.0058	0.0043	0.0157	0.0078	0.0145	0.0100	0.0238	0.0524	0.0122	0.0140
40.0%	0.0153	0.0027	0.0059	0.0044	0.0158	0.0079	0.0146	0.0101	0.0243	0.0525	0.0123	0.0141
42.5%	0.0178	0.0038	0.0082	0.0045	0.0165	0.0080	0.0147	0.0102	0.0244	0.0526	0.0124	0.0142
45.0%	0.0181	0.0039	0.0083	0.0046	0.0166	0.0081	0.0148	0.0103	0.0245	0.0527	0.0130	0.0143
47.5%	0.0199	0.0040	0.0084	0.0047	0.0167	0.0082	0.0149	0.0104	0.0250	0.0528	0.0131	0.0144
50.0%	0.0200	0.0041	0.0086	0.0048	0.0168	0.0083	0.0150	0.0110	0.0251	0.0529	0.0132	0.0145
Obligated												
Level (GWh/d)	1783.4	340.0	542.7	0	1407.15	650	420	699.68	950	1670.7	445.09	610.7

Hole H	Hole House Farm		Hornsea		Partington		Avonmouth		Barton Stacey	
Obligated		Obligated		Obligated		Obligated		Obligated		
Level	0.0001	Level	0.0125	Level	0.0001	Level	0.0001	Level	0.0001	
5.1%	0.0002	6.4%	0.0127	7.0%	0.0002	8.4%	0.0002	8.7%	0.0090	
10.1%	0.0003	12.9%	0.0128	14.0%	0.0017	16.7%	0.0003	17.4%	0.0091	
15.2%	0.0007	19.3%	0.0130	20.9%	0.0020	25.1%	0.0004	26.1%	0.0098	
20.2%	0.0008	25.7%	0.0131	27.9%	0.0029	33.5%	0.0005	34.8%	0.0105	
25.3%	0.0009	32.2%	0.0132	34.9%	0.0030	41.8%	0.0006	43.5%	0.0108	
30.3%	0.0010	38.6%	0.0133	41.9%	0.0031	50.2%	0.0011	52.1%	0.0109	
35.4%	0.0011	45.0%	0.0134	48.8%	0.0032					
40.5%	0.0012	51.5%	0.0135	55.8%	0.0033					
45.5%	0.0013									
50.6%	0.0024									
Obligated Level		Obligated Level		Obligated Level		Obligated Level		Obligated Level		
(GWh/d)	296.6	(GWh/d)	233.1	(GWh/d)	215	(GWh/d)	179.3	(GWh/d)	172.6	

	Burton Point	Caythorpe	Dynevor Arms	Glenmavis	Hatfield Moor	Wytch Farm
Obligated Level	0.0001	0.0128	0.0078	0.0131	0.0036	0.0001
10%	0.0031	0.0129	0.0079	0.0169	0.0037	0.0002
20%	0.0032	0.0130	0.0080	0.0170	0.0038	0.0003
30%	0.0033	0.0131	0.0081	0.0171	0.0039	0.0004
40%	0.0034	0.0132	0.0083	0.0172	0.0040	0.0005
50%	0.0035	0.0133	0.0084	0.0173	0.0041	0.0006
Obligated Level (GWh/d)	73.5	90	49	99	25.3	3.3

	Bacton	Barrow	Cheshire	Canonbie	Easington &Rough	Fleetwood	Garton	Isle of Grain	Milford Haven	St Fergus	Teesside	Theddlethorpe
Obligated Level												
2.5%	15.05	0.36	0.05	0.44	15.38	0.46	4.55	0.06	18.23	69.61	3.24	6.51
5.0%	30.10	0.73	1.45	0.89	30.75	0.92	9.10	1.49	36.46	139.21	7.35	13.02
7.5%	45.15	1.09	2.17	1.33	46.13	1.73	13.88	2.24	54.69	209.71	11.03	19.53
10.0%	62.74	1.45	3.86	1.78	61.50	2.31	18.51	2.98	72.92	280.80	14.71	27.13
12.5%	85.55	1.81	4.82	2.22	79.38	2.89	25.18	3.73	91.14	356.94	19.18	33.91
15.0%	102.66	2.18	12.73	2.67	102.00	6.58	30.45	4.48	111.40	433.67	23.01	40.69
17.5%	119.77	2.54	14.85	4.35	119.00	7.68	35.52	6.53	135.28	505.95	26.85	47.47
20.0%	136.88	3.38	19.67	5.12	136.00	12.01	40.59	10.44	154.61	586.53	32.58	57.72
22.5%	156.84	3.81	22.13	5.76	153.00	13.51	45.67	13.43	173.93	661.19	37.72	64.94
25.0%	193.28	4.23	24.59	6.40	170.00	15.01	50.74	59.05	193.26	768.79	41.91	72.15
27.5%	216.09	4.65	27.05	7.04	189.75	16.51	55.82	64.95	212.58	848.93	46.10	79.37
30.0%	254.75	5.07	30.08	7.68	225.00	51.28	61.79	70.86	231.91	927.89	55.51	86.58
32.5%	278.04	5.50	32.59	8.32	245.38	55.55	66.93	76.76	251.24	1007.14	61.68	93.80
35.0%	314.95	5.92	35.10	9.95	266.01	62.25	72.08	82.67	271.74	1084.61	66.43	105.57
37.5%	351.71	6.34	37.60	10.66	294.38	67.56	77.23	88.57	301.28	1162.09	71.17	113.11
40.0%	387.83	6.77	40.11	11.37	314.01	72.06	85.37	94.48	328.12	1239.56	75.92	120.65
42.5%	479.40	19.51	67.21	12.38	350.63	76.57	90.70	100.38	348.62	1317.03	80.66	128.20
45.0%	516.15	20.66	71.16	13.11	371.26	81.07	96.04	106.29	369.13	1394.50	92.52	135.74
47.5%	599.01	21.81	75.11	13.84	391.88	85.57	101.37	114.55	400.86	1471.98	97.66	143.28
50.0%	630.54	23.56	82.92	14.57	412.51	90.08	106.71	136.74	421.96	1549.45	102.80	152.99
Obligated level (GWh/d)	1783.4	340.0	542.7	0	1407.2	650.0	420.0	699.7	950.0	1670.7	445.09	610.7

Hole House Farm		Hornsea		Partington		Avonmouth		Barton Stacey	
Obligated Level									
5.1%	0.05	6.4%	6.77	7.0%	0.11	8.37%	0.05	8.7%	4.80
10.1%	0.11	12.9%	13.54	14.0%	1.81	16.73%	0.11	17.4%	9.59
15.2%	1.12	19.3%	20.79	20.9%	3.20	25.10%	0.16	26.1%	15.67
20.2%	1.49	25.7%	27.72	27.9%	6.18	33.46%	0.21	34.8%	22.39
25.3%	1.87	32.2%	34.65	34.9%	7.73	41.83%	1.33	43.5%	28.78
30.3%	2.24	38.6%	41.57	41.9%	9.27	50.20%	3.52	52.1%	34.54
35.4%	2.61	45.0%	48.50	48.8%	10.82				
40.5%	2.99	51.5%	56.29	55.8%	12.37				
45.5%	3.36								
50.6%	12.79								
Obligated Level (GWh/d)	296.6	Obligated Level (GWh/d)	233.1	Obligated Level (GWh/d)	215.0	Obligated Level (GWh/d)	179.3	Obligated Level (GWh/d)	172.6

	Burton Point	Caythorpe	Dynevor Arms	Glenmavis	Hatfield Moor	Wytch Farm
Obligated Level						
10%	0.81	4.09	1.36	5.95	0.32	0.001
20%	1.62	8.19	2.72	11.89	0.65	0.002
30%	2.43	12.38	4.07	17.84	0.97	0.004
40%	3.24	16.50	5.78	23.78	1.30	0.005
50%	4.05	20.63	7.23	29.73	1.80	0.006
Obligated Level (GWh/d)	73.5	90.0	49.0	99.0	25.3	3.3

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