

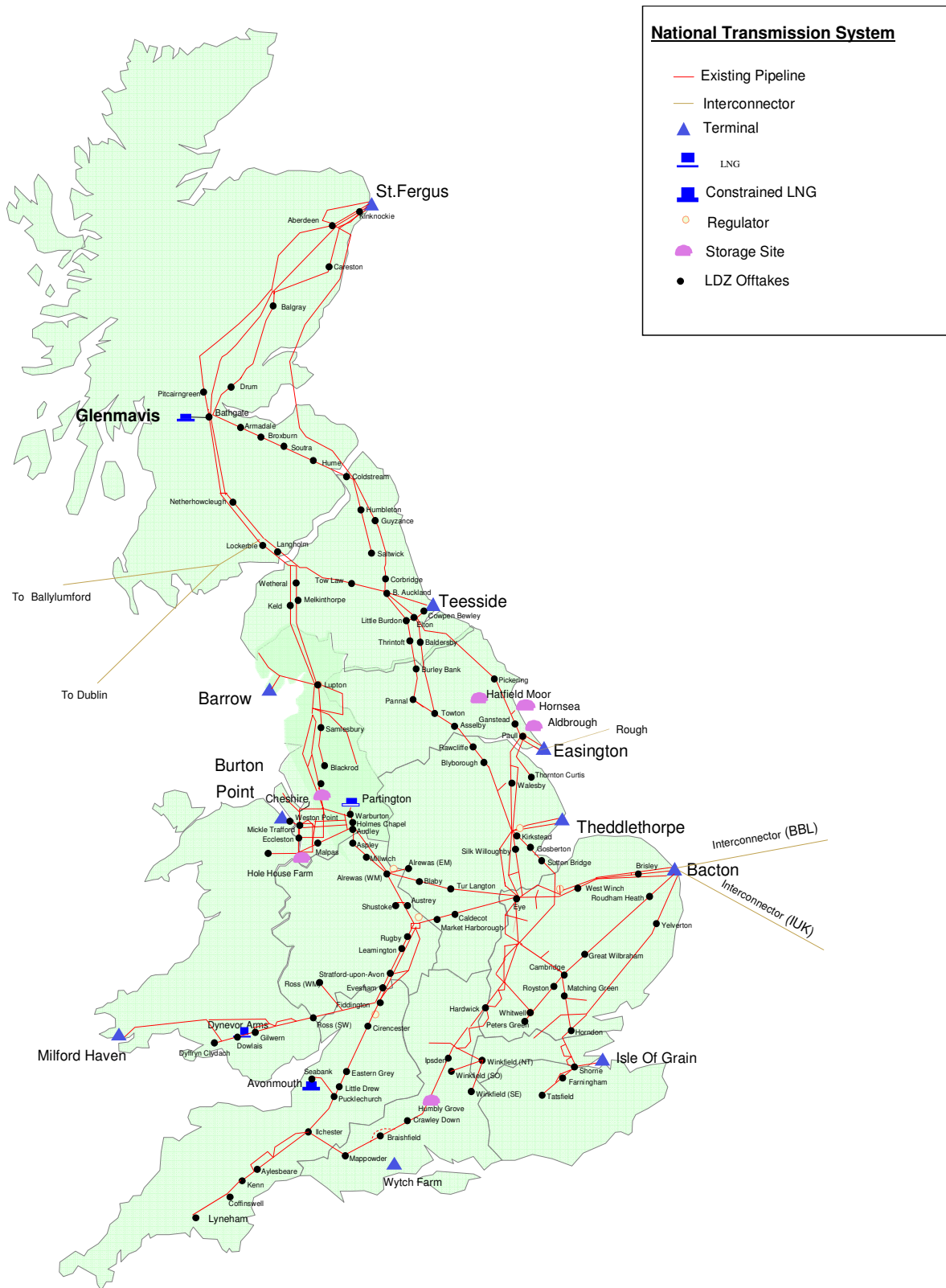
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nationalgrid

The Statement of Gas Transmission Transportation Charges

from 1 February 2014

National Grid's Gas Transmission System



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1 Introduction

This publication sets out the transportation charges which apply from 1 February 2014 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/statements/. 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.

1.1 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/indicativecharges/ and www.nationalgrid.com/uk/Gas/Charges/NoticeofChange/.

1.2 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 definitive 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.

1.3 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.

1.4 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.

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

1.5 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 under-recovery 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 at www.nationalgrid.com/uk/Gas/Charges/consultations/.

Charges for Entry capacity are not fixed but 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.

1.6 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 new NTS TO Price Control Formulae R110-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.

1.7 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 is set out in the UNC Section B.

Under the universal firm exit arrangements, the concepts of interruptible transportation, charges foregone and interruptible credits are no longer relevant. 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.

1.8 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.

2 NTS Capacity Charges

Capacity charges consist of charges for Entry, Exit and credits payable for constrained Liquefied Natural Gas (LNG).

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

2.1 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 on 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 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/

2.1.1 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 Licence 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 **Incremental Entry Capacity Release (IECR) 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 **Incremental Entry Capacity Release (IECR) Statement**.

QSEC auctions take place annually in March.

2.1.2 NTS Entry Capacity Retention Charges

The establishment of Entry Capacity Substitution (ECS), a process by which NGG 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 substitutable capacity. When it is 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 **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

| 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). |
|---|---|

2.1.3 Monthly System Entry Capacity

National Grid NTS offers two monthly capacity services – 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 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 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 lowest price that can be accepted in an MSEC allocation is the reserve price as set out in Table 3 in Section 2.2.

2.1.4 Daily System Entry Capacity

National Grid NTS offers two daily capacity services – 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 presently 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 booked monthly 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 service entitlements.

2.1.5 Additional Discretionary Release Mechanism for NTS Entry Capacity (DRSEC)

An additional capacity release mechanism which allows National Grid to invite applications for quarterly, monthly, daily or daily interruptible Entry capacity outside of the existing auction mechanisms has been introduced. The timing of such invitations and the quantities of Entry capacity offered are at the sole discretion of NGG NTS. This would be mainly for discretionary Entry capacity (in addition to baselines) but under certain circumstances may involve 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.

2.2 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 3, respectively.

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

Table 2

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

Table 3 Entry Capacity Reserve Prices for Capacity for use from 1 October 2013

| MSEC Reserve Prices Pence per kWh per day | | |
|--|----------------------------|----------------------------|
| Entry Point | Y | Y+1 |
| | From 1 Oct 13 to 30 Sep 14 | From 1 Oct 14 to 30 Sep 15 |
| Coastal Terminals & LNG Importation | | |
| Bacton | 0.0085 | 0.0086 |
| Barrow | 0.0001 | 0.0001 |
| Easington & Rough | 0.0113 | 0.0114 |
| Isle of Grain | 0.0005 | 0.0002 |
| Milford Haven | 0.0199 | 0.0199 |
| St Fergus | 0.0403 | 0.0406 |
| Teesside | 0.0090 | 0.0094 |
| Theddlethorpe & Saltfleetby | 0.0112 | 0.0112 |
| Onshore Fields and Connections | | |
| Burton Point | 0.0001 | 0.0001 |
| Hatfield Moor | 0.0036 | 0.0037 |
| Hole House Farm | 0.0001 | 0.0001 |
| Wytch Farm | 0.0001 | 0.0001 |
| Storage | | |
| Barton Stacey | 0.0001 | 0.0001 |
| Canonbie | 0.0001 | 0.0001 |
| Caythorpe | 0.0111 | 0.0122 |
| Cheshire | 0.0001 | 0.0001 |
| Dynevor Arms | 0.0086 | 0.0078 |
| Fleetwood | 0.0001 | 0.0008 |
| Garton | 0.0124 | 0.0124 |
| Glenmavis | 0.0094 | 0.0120 |
| Hatfield Moor | 0.0036 | 0.0037 |
| Hornsea | 0.0116 | 0.0116 |
| Partington | 0.0001 | 0.0001 |
| Constrained LNG | | |
| Avonmouth | 0.0001 | 0.0001 |
| Moffat¹ | | |
| Moffat ¹ | 0.0032 | 0.0033 |

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

Table 3 continued

| DSEC Reserve Prices, Pence per kWh per day | |
|---|-----------------------------------|
| Entry Point | from 1 Oct 13 to 30 Sep 14 |
| Coastal Terminals & LNG Importation | |
| Bacton | 0.0057 |
| Barrow | 0.0001 |
| Easington&Rough | 0.0075 |
| Isle of Grain | 0.0003 |
| Milford Haven | 0.0133 |
| St Fergus | 0.0269 |
| Teesside | 0.0060 |
| Theddlethorpe | 0.0075 |
| Onshore Fields and Connections | |
| Burton Point | 0.0001 |
| Hatfield Moor | 0.0024 |
| Hole House Farm | 0.0001 |
| Wytch Farm | 0.0001 |
| Storage | |
| Barton Stacey | 0.0001 |
| Canonbie | 0.0001 |
| Caythorpe | 0.0074 |
| Cheshire | 0.0001 |
| Dynevor Arms | 0.0057 |
| Fleetwood | 0.0001 |
| Garton | 0.0083 |
| Glenmavis | 0.0063 |
| Hatfield Moor | 0.0024 |
| Hornsea | 0.0077 |
| Partington | 0.0001 |
| Constrained LNG | |
| Avonmouth | 0.0001 |
| Moffat | 0.0021 |

2.3 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 4, is deducted from the charge for the storage service.

Table 4 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 May 2013 to 30 April 2014 | | |
| Avonmouth LNG | 0.0000 | 0.0000 |

2.4 NTS TO Exit (Flat) Capacity Charges

With the introduction of NTS Exit Reform and NTS Exit (Flat) capacity, 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.

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 charges are given in Table 5.

Please note the **indicative NTS Exit (Flat) capacity charges** for 2014/15 to 2016/17 are available on our web site in a separate document under Gas Charges / Indicative Charge Changes.

NTS TO Exit (Flat) Capacity

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

Table 5 NTS TO Exit (Flat) Capacity Charges from 1 October 2013, p/kWh/d

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|------------------------------|-----------------|---------------------|
| Bacton | GDN (EA) | 0.0001 |
| Brisley | GDN (EA) | 0.0011 |
| Cambridge | GDN (EA) | 0.0077 |
| Great Wilbraham | GDN (EA) | 0.0067 |
| Matching Green | GDN (EA) | 0.0109 |
| Peterborough Eye (Tee) | GDN (EA) | 0.0066 |
| Roudham Heath | GDN (EA) | 0.0028 |
| Royston | GDN (EA) | 0.0086 |
| Whitwell | GDN (EA) | 0.0106 |
| West Winch | GDN (EA) | 0.0035 |
| Yelverton | GDN (EA) | 0.0005 |
| Alrewas (EM) | GDN (EM) | 0.0156 |
| Blaby | GDN (EM) | 0.0119 |
| Blyborough | GDN (EM) | 0.0035 |
| Caldecott | GDN (EM) | 0.0094 |
| Thornton Curtis (DN) | GDN (EM) | 0.0001 |
| Drointon | GDN (EM) | 0.0167 |
| Gosberton | GDN (EM) | 0.0046 |
| Kirkstead | GDN (EM) | 0.0025 |
| Market Harborough | GDN (EM) | 0.0106 |
| Silk Willoughby | GDN (EM) | 0.0038 |
| Sutton Bridge | GDN (EM) | 0.0054 |
| Tur Langton | GDN (EM) | 0.0108 |
| Walesby | GDN (EM) | 0.0001 |
| Asselby | GDN (NE) | 0.0016 |
| Baldersby | GDN (NE) | 0.0031 |
| Burley Bank | GDN (NE) | 0.0053 |
| Ganstead | GDN (NE) | 0.0001 |
| Pannal | GDN (NE) | 0.0057 |
| Paull | GDN (NE) | 0.0001 |
| Pickering | GDN (NE) | 0.0028 |
| Rawcliffe | GDN (NE) | 0.0018 |
| Towton | GDN (NE) | 0.0039 |
| Bishop Auckland | GDN (NO) | 0.0011 |
| Coldstream | GDN (NO) | 0.0001 |
| Corbridge | GDN (NO) | 0.0041 |
| Cowpen Bewley | GDN (NO) | 0.0001 |
| Elton | GDN (NO) | 0.0002 |
| Guyzance | GDN (NO) | 0.0014 |
| Humbleton | GDN (NO) | 0.0001 |
| Keld | GDN (NO) | 0.0110 |
| Little Burdon | GDN (NO) | 0.0007 |
| Melkinton | GDN (NO) | 0.0102 |
| Saltwick Pressure Controlled | GDN (NO) | 0.0028 |
| Saltwick Volumetric | GDN (NO) | 0.0028 |

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|--------------------------|-----------------|---------------------|
| Controlled | | |
| Thrintoft | GDN (NO) | 0.0024 |
| Towlaw | GDN (NO) | 0.0032 |
| Wetheral | GDN (NO) | 0.0076 |
| Horndon | GDN (NT) | 0.0091 |
| Luxborough Lane | GDN (NT) | 0.0116 |
| Peters Green | GDN (NT) | 0.0110 |
| Peters Green South Mimms | GDN (NT) | 0.0110 |
| Winkfield (NT) | GDN (NT) | 0.0201 |
| Audley (NW) | GDN (NW) | 0.0204 |
| Blackrod | GDN (NW) | 0.0174 |
| Ecclestone | GDN (NW) | 0.0238 |
| Holmes Chapel | GDN (NW) | 0.0217 |
| Lupton | GDN (NW) | 0.0137 |
| Malpas | GDN (NW) | 0.0224 |
| Mickle Trafford | GDN (NW) | 0.0237 |
| Partington | GDN (NW) | 0.0227 |
| Samlesbury | GDN (NW) | 0.0159 |
| Warburton | GDN (NW) | 0.0225 |
| Weston Point | GDN (NW) | 0.0247 |
| 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) | 0.0002 |
| Kinknockie | GDN (SC) | 0.0001 |
| Langholm | GDN (SC) | 0.0051 |
| Lauderhill | GDN (SC) | 0.0014 |
| Lockerbie | GDN (SC) | 0.0041 |
| Netherhowcleugh | GDN (SC) | 0.0022 |
| Pitcairngreen | GDN (SC) | 0.0001 |
| Soutra | GDN (SC) | 0.0020 |
| Stranraer | GDN (SC) | 0.0030 |
| Farningham | GDN (SE) | 0.0092 |
| Farningham B | GDN (SE) | 0.0092 |
| Shorne | GDN (SE) | 0.0081 |
| Tatsfield | GDN (SE) | 0.0110 |
| Winkfield (SE) | GDN (SE) | 0.0201 |
| Braishfield A | GDN (SO) | 0.0238 |
| Braishfield B | GDN (SO) | 0.0238 |

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|-----------------------------------|-----------------|---------------------|
| Crawley Down | GDN (SO) | 0.0224 |
| Hardwick | GDN (SO) | 0.0146 |
| Ipsden | GDN (SO) | 0.0180 |
| Ipsden 2 | GDN (SO) | 0.0180 |
| Mappowder | GDN (SO) | 0.0199 |
| Winkfield (SO) | GDN (SO) | 0.0201 |
| Aylesbeare | GDN (SW) | 0.0222 |
| Cirencester | GDN (SW) | 0.0111 |
| Coffinswell | GDN (SW) | 0.0250 |
| Easton Grey | GDN (SW) | 0.0117 |
| Evesham | GDN (SW) | 0.0080 |
| Fiddington | GDN (SW) | 0.0067 |
| Ilchester | GDN (SW) | 0.0177 |
| Kenn | GDN (SW) | 0.0233 |
| Littleton Drew | GDN (SW) | 0.0125 |
| Lyneham (Choakford) | GDN (SW) | 0.0278 |
| Pucklechurch | GDN (SW) | 0.0134 |
| Ross (SW) | GDN (SW) | 0.0037 |
| Seabank (DN) | GDN (SW) | 0.0154 |
| Alrewas (WM) | GDN (WM) | 0.0156 |
| Aspley | GDN (WM) | 0.0187 |
| Audley (WM) | GDN (WM) | 0.0204 |
| Austrey | GDN (WM) | 0.0149 |
| Leamington | GDN (WM) | 0.0107 |
| Lower Quinton | GDN (WM) | 0.0091 |
| Milwich | GDN (WM) | 0.0174 |
| Ross (WM) | GDN (WM) | 0.0037 |
| Rugby | GDN (WM) | 0.0118 |
| Shustoke | GDN (WM) | 0.0161 |
| Stratford-upon-Avon | GDN (WM) | 0.0093 |
| Maelor | GDN (WN) | 0.0232 |
| Dowlais | GDN (WS) | 0.0001 |
| Dyffryn Clydach | GDN (WS) | 0.0001 |
| Gilwern | GDN (WS) | 0.0006 |
| Ferny Knoll (AM Paper) | DC | 0.0199 |
| Tonna (Baglan Bay) | DC | 0.0001 |
| Barking (Horndon) | DC | 0.0091 |
| Barrow (Black Start) | DC | 0.0100 |
| Billingham ICI (Terra Billingham) | DC | 0.0001 |
| Bishop Auckland (test facility) | DC | 0.0011 |
| Blackness (BP Grangemouth) | DC | 0.0001 |
| Saltend BPHP (BP Saltend HP) | DC | 0.0001 |
| Shotwick (Bridgewater Paper) | DC | 0.0245 |

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|--|-----------------|---------------------|
| Blyborough (Brigg) | DC | 0.0045 |
| Epping Green (Enfield Energy, aka Brimsdown) | DC | 0.0119 |
| Brine Field (Teesside) Power Station | DC | 0.0001 |
| Pickmere (Winnington Power, aka Brunner Mond) | DC | 0.0228 |
| Carrington (Partington) Power Station | DC | 0.0227 |
| Centrax Industrial | DC | 0.0248 |
| Cockenzie Power Station | DC | 0.0001 |
| Burton Point (Connahs Quay) | DC | 0.0249 |
| Caldecott (Corby Power Station) | DC | 0.0098 |
| Stanford Le Hope (Coryton) | DC | 0.0088 |
| Coryton 2 (Thames Haven) Power Station | DC | 0.0088 |
| Blyborough (Cottam) | DC | 0.0035 |
| Middle Stoke (Damhead Creek, aka Kingsnorth Power Station) | DC | 0.0067 |
| Deeside | DC | 0.0249 |
| Didcot PS | DC | 0.0183 |
| Drakelow Power Station | DC | 0.0151 |
| Enron Billingham | DC | 0.0001 |
| Goole (Guardian Glass) | DC | 0.0022 |
| Grain Power Station | DC | 0.0067 |
| Bacton (Great Yarmouth) | DC | 0.0001 |
| Hatfield Power Station | DC | 0.0018 |
| Hollingsgreen (Hays Chemicals) | DC | 0.0216 |
| Weston Point (Castner Kelner, aka ICI Runcorn) | DC | 0.0247 |
| Thornton Curtis (Humber Refinery, aka Immingham) | DC | 0.0001 |
| Eastoft (Keadby Blackstart) | DC | 0.0033 |
| Eastoft (Keadby) | DC | 0.0033 |
| Shellstar (aka Kemira, not Kemira CHP) | DC | 0.0243 |
| Saddle Bow (Kings Lynn) | DC | 0.0039 |
| Kintore (Rolls Wood) | DC | 0.0001 |
| Langage Power Station | DC | 0.0278 |
| St. Neots (Little Barford) | DC | 0.0107 |
| Gowkhall (Longannet) | DC | 0.0001 |
| Marchwood Power Station | DC | 0.0240 |
| Medway (aka Isle of Grain Power Station, NOT Grain Power) | DC | 0.0068 |
| Upper Neeston (Milford Haven Refinery) | DC | 0.0001 |
| Blackbridge (Pembroke PS) | DC | 0.0001 |

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|--|----------------------------------|---------------------|
| Peterborough (Peterborough Power Station) | DC | 0.0070 |
| St. Fergus (Peterhead) | DC | 0.0001 |
| Phillips Petroleum, Teeside | DC | 0.0001 |
| Weston Point (Rocksavage) | DC | 0.0247 |
| Roosecote (Roosecote Power Station) | DC | 0.0100 |
| Ryehouse | DC | 0.0124 |
| Rosehill (Saltend Power Station) | DC | 0.0001 |
| Sandy Lane (Blackburn CHP, aka Sappi Paper Mill) | DC | 0.0163 |
| Seabank (Seabank Power Station phase II) | DC | 0.0152 |
| Abson (Seabank Power Station phase I) | DC | 0.0134 |
| Sellafield Power Station | DC | 0.0142 |
| Terra Nitrogen (aka ICI, Terra Severnside) | DC | 0.0151 |
| Harwarden (Shotton, aka Shotton Paper) | DC | 0.0248 |
| Wragg Marsh (Spalding) | DC | 0.0050 |
| Spalding 2 (South Holland Power Station) | DC | 0.0050 |
| St. Fergus (Shell Blackstart) | DC | 0.0001 |
| Stallingborough (phase 1 and 2) | DC | 0.0001 |
| Staythorpe PH1 and PH2 | DC | 0.0065 |
| Sutton Bridge Power Station | DC | 0.0053 |
| Teesside (BASF, aka BASF Teesside) | DC | 0.0001 |
| Teesside Hydrogen | DC | 0.0001 |
| Thornton Curtis (Killingholme) | DC | 0.0001 |
| Tilbury Power Station | DC | 0.0084 |
| West Burton PS | DC | 0.0036 |
| Willington Power Station | DC | 0.0166 |
| Wyre Power Station | DC | 0.0175 |
| Zeneca (ICI Avecia, aka 'Zenica') | DC | 0.0001 |
| Bacton (IUK/BBL) | INTERCONNECTOR | 0.0001 |
| Moffat (Irish Interconnector) | INTERCONNECTOR – FIRM, EXIT ONLY | 0.0030 |
| Avonmouth Max Refill | STORAGE SITE | 0.0152 |
| Bacton (Baird) | STORAGE SITE | 0.0001 |
| Deborah Storage (Bacton) | STORAGE SITE | 0.0001 |
| Barrow (Bains) | STORAGE SITE | 0.0100 |
| Barrow (Gateway) | STORAGE SITE | 0.0100 |
| Barton Stacey Max Refill (Humbly Grove) | STORAGE SITE | 0.0222 |
| Caythorpe | STORAGE SITE | 0.0001 |
| Cheshire (Holford) | STORAGE SITE | 0.0221 |

| | Type of Offtake | 2013/14 at 1 Oct-13 |
|--|-----------------|---------------------|
| 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 | 0.0026 |
| Hole House Max Refill | STORAGE SITE | 0.0215 |
| Hornsea Max Refill | STORAGE SITE | 0.0001 |
| Partington Max Refill | STORAGE SITE | 0.0227 |
| Stublach (Cheshire) | STORAGE SITE | 0.0221 |
| Saltfleetby Storage (Theddlethorpe) | STORAGE SITE | 0.0001 |
| Hill Top Farm (Hole House Farm) | STORAGE SITE | 0.0215 |

3 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.

3.1 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 6.

3.1.1 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 over-recovery 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 over-recovery is in excess of £1m (this equates to the minimum TO Entry commodity charge of 0.0001 p/kWh).

3.1.2 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.

3.2 NTS TO Exit (Flat) 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 6.

3.3 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 6 below.

Table 6 NTS Commodity Charges

| Invoice | Charge Code |
|---------|-------------|
| ECO | NCE |

| Pence per kWh | |
|---------------------|--------|
| TO Entry | 0.0249 |
| SO Entry | 0.0173 |
| Combined Entry Rate | 0.0422 |

| Invoice | Charge Code |
|---------|-------------|
| COM | NCO |

| Pence per kWh | |
|--------------------|--------|
| TO Exit | 0.0117 |
| SO Exit | 0.0173 |
| Combined Exit Rate | 0.0290 |

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

3.4 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 7.

Table 7 NTS Optional Commodity Charge

| Invoice | Charge Code |
|---------|-------------|
| ADU | 880 |

| Pence per kWh |
|---|
| $1203 \times [(SOQ)^{-0.834}] \times D + 363 \times (SOQ)^{-0.654}$ |

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 ^ means “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.

4 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 8 below.

Table 8 St. Fergus Compression Charge

| Invoice | Charge Code |
|---------|-------------|
| ADZ | 900 |

| | Pence per kWh |
|-------------|---------------|
| Compression | 0.0113 |

5 DN Pensions 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 2013/14 are shown in Table 9 DN Pension Deficit Charge below.

Table 9 DN Pension Deficit Charge

| Invoice | Charge Code |
|---------|-------------|
| ADN | N23 |

| DN | Monthly Charge, £ | Per Annum, £m |
|--------------------|-------------------|---------------|
| East of England | 629,967 | 7.56 |
| London | 368,288 | 4.42 |
| North West | 426,439 | 5.12 |
| West Midlands | 310,138 | 3.72 |
| North of England | 397,364 | 4.77 |
| Scotland | 271,370 | 3.26 |
| South of England | 639,659 | 7.68 |
| Wales and the West | 377,980 | 4.54 |

6 Metering Charges

Table 10 shows a schedule of National Grid NTS's metering charges to apply from 1 April 2013. 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 10 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 | £13,063.31 | £13,860.76 | £15,676.71 | £16,316.49 | £17,912.42 | £23,136.70 |
| Pence per day Maintenance | 3,578.9890 | 3,797.4685 | 4,294.9890 | 4,470.2712 | 4,907.5123 | 6,338.8219 |

6.1 Volume converters (Correctors)

| | Pence per day | £ per annum |
|--------------|----------------|---------------|
| Provision | 39.9835 | 145.94 |
| Installation | 16.1178 | 58.83 |
| Maintenance | 36.3288 | 132.60 |
| Total | 92.4301 | 337.37 |

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 (This charge excludes the daily meter reading charge set at the tariff cap)

| | 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.

7 Other Charges

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

7.1 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 11.

Table 11 CSEP Administration Charge

| Invoice | Charge Code |
|---------|-------------|
| ADU | 884 |

| | |
|--------------------------------|---|
| Charge per supply point | 0.0986 pence per day (£0.36 per annum) |
|--------------------------------|---|

7.2 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 12. Individual charges depend on the type of allocation service nominated and whether the site is telemetered or non-telemetered.

Table 12 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 |

7.3 Interconnectors

7.3.1 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 13. 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 13 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 |

7.3.2 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 14 below.

Table 14 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.

8 Appendix A NTS Non-Incremental Obligated Entry Capacity

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 15 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.

Table 15 Licence Baseline Entry Capacity (GWh/day)

| Terminal | Baseline 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 |
| 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 16 Entry Capacity Substitution

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

Table 17 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 |

9 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.

10 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 IECR 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.

11 Appendix D QSEC Step Prices 2014

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

Pence/kWh/day

| | Bacton | Barrow | Cheshire | Canonbie | Easington & Rough | Fleetwood | Garton | Isle of Grain | Milford Haven | St Fergus | Teesside | Theddlethorpe |
|--------------------------------|---------------|--------------|--------------|----------|-------------------|------------|------------|---------------|---------------|---------------|---------------|---------------|
| Obligated Level | 0.0096 | 0.0001 | 0.0001 | 0.0034 | 0.0130 | 0.0020 | 0.0129 | 0.0013 | 0.0205 | 0.0430 | 0.0090 | 0.0123 |
| 2.5% | 0.0102 | 0.0002 | 0.0002 | 0.0035 | 0.0131 | 0.0021 | 0.0131 | 0.0014 | 0.0211 | 0.0441 | 0.0091 | 0.0124 |
| 5.0% | 0.0103 | 0.0003 | 0.0019 | 0.0036 | 0.0132 | 0.0022 | 0.0132 | 0.0015 | 0.0214 | 0.0458 | 0.0092 | 0.0128 |
| 7.5% | 0.0104 | 0.0004 | 0.0020 | 0.0037 | 0.0133 | 0.0023 | 0.0143 | 0.0017 | 0.0223 | 0.0460 | 0.0095 | 0.0129 |
| 10.0% | 0.0105 | 0.0005 | 0.0021 | 0.0038 | 0.0143 | 0.0024 | 0.0144 | 0.0023 | 0.0224 | 0.0461 | 0.0096 | 0.0130 |
| 12.5% | 0.0112 | 0.0006 | 0.0022 | 0.0039 | 0.0144 | 0.0025 | 0.0145 | 0.0025 | 0.0225 | 0.0462 | 0.0097 | 0.0131 |
| 15.0% | 0.0114 | 0.0007 | 0.0049 | 0.0040 | 0.0145 | 0.0026 | 0.0146 | 0.0095 | 0.0226 | 0.0463 | 0.0098 | 0.0135 |
| 17.5% | 0.0115 | 0.0009 | 0.0050 | 0.0041 | 0.0146 | 0.0027 | 0.0147 | 0.0096 | 0.0227 | 0.0469 | 0.0099 | 0.0136 |
| 20.0% | 0.0116 | 0.0011 | 0.0051 | 0.0042 | 0.0147 | 0.0028 | 0.0148 | 0.0097 | 0.0228 | 0.0475 | 0.0100 | 0.0137 |
| 22.5% | 0.0117 | 0.0012 | 0.0052 | 0.0043 | 0.0148 | 0.0029 | 0.0149 | 0.0098 | 0.0229 | 0.0476 | 0.0101 | 0.0138 |
| 25.0% | 0.0127 | 0.0013 | 0.0053 | 0.0044 | 0.0149 | 0.0040 | 0.0150 | 0.0099 | 0.0230 | 0.0482 | 0.0102 | 0.0139 |
| 27.5% | 0.0133 | 0.0014 | 0.0054 | 0.0045 | 0.0156 | 0.0041 | 0.0151 | 0.0100 | 0.0231 | 0.0483 | 0.0103 | 0.0141 |
| 30.0% | 0.0135 | 0.0015 | 0.0055 | 0.0046 | 0.0158 | 0.0042 | 0.0152 | 0.0101 | 0.0232 | 0.0507 | 0.0104 | 0.0142 |
| 32.5% | 0.0140 | 0.0016 | 0.0060 | 0.0047 | 0.0159 | 0.0043 | 0.0153 | 0.0102 | 0.0237 | 0.0508 | 0.0117 | 0.0143 |
| 35.0% | 0.0147 | 0.0017 | 0.0061 | 0.0048 | 0.0163 | 0.0044 | 0.0154 | 0.0103 | 0.0238 | 0.0509 | 0.0120 | 0.0144 |
| 37.5% | 0.0148 | 0.0018 | 0.0062 | 0.0049 | 0.0164 | 0.0045 | 0.0155 | 0.0104 | 0.0244 | 0.0510 | 0.0121 | 0.0145 |
| 40.0% | 0.0157 | 0.0019 | 0.0064 | 0.0050 | 0.0170 | 0.0046 | 0.0156 | 0.0105 | 0.0245 | 0.0511 | 0.0122 | 0.0146 |
| 42.5% | 0.0160 | 0.0020 | 0.0067 | 0.0051 | 0.0171 | 0.0047 | 0.0157 | 0.0110 | 0.0249 | 0.0512 | 0.0123 | 0.0147 |
| 45.0% | 0.0184 | 0.0021 | 0.0068 | 0.0052 | 0.0172 | 0.0048 | 0.0158 | 0.0111 | 0.0250 | 0.0513 | 0.0124 | 0.0148 |
| 47.5% | 0.0201 | 0.0022 | 0.0069 | 0.0053 | 0.0173 | 0.0049 | 0.0159 | 0.0112 | 0.0251 | 0.0514 | 0.0125 | 0.0149 |
| 50.0% | 0.0202 | 0.0023 | 0.0100 | 0.0054 | 0.0174 | 0.0050 | 0.0160 | 0.0115 | 0.0256 | 0.0515 | 0.0127 | 0.0150 |
| Obligated Level (GWh/d) | 1783.4 | 340.0 | 542.7 | 0 | 1407.15 | 650 | 420 | 699.68 | 950 | 1670.7 | 445.09 | 610.7 |

Pence/kWh/day

| | Hole House Farm | | Hornsea | | Partington | | Avonmouth | | Barton Stacey | |
|--------------------------------|-----------------|--------------|--------------------------------|--------------|--------------------------------|------------|--------------------------------|--------------|--------------------------------|--------------|
| Obligated Level | 0.0001 | | Obligated Level | 0.0118 | Obligated Level | 0.0001 | Obligated Level | 0.0001 | Obligated Level | 0.0001 |
| 5.1% | 0.0002 | | 6.4% | 0.0119 | 7.0% | 0.0010 | 8.4% | 0.0002 | 8.7% | 0.0022 |
| 10.1% | 0.0003 | | 12.9% | 0.0120 | 14.0% | 0.0011 | 16.7% | 0.0005 | 17.4% | 0.0025 |
| 15.2% | 0.0004 | | 19.3% | 0.0130 | 20.9% | 0.0020 | 25.1% | 0.0010 | 26.1% | 0.0033 |
| 20.2% | 0.0007 | | 25.7% | 0.0131 | 27.9% | 0.0021 | 33.5% | 0.0013 | 34.8% | 0.0048 |
| 25.3% | 0.0008 | | 32.2% | 0.0132 | 34.9% | 0.0022 | 41.8% | 0.0014 | 43.5% | 0.0049 |
| 30.3% | 0.0009 | | 38.6% | 0.0133 | 41.9% | 0.0023 | 50.2% | 0.0015 | 52.1% | 0.0050 |
| 35.4% | 0.0010 | | 45.0% | 0.0134 | 48.8% | 0.0024 | | | | |
| 40.5% | 0.0011 | | 51.5% | 0.0135 | 55.8% | 0.0025 | | | | |
| 45.5% | 0.0012 | | | | | | | | | |
| 50.6% | 0.0020 | | | | | | | | | |
| Obligated Level (GWh/d) | | 296.6 | Obligated Level (GWh/d) | 233.1 | Obligated Level (GWh/d) | 215 | Obligated Level (GWh/d) | 179.3 | Obligated Level (GWh/d) | 172.6 |

QSEC Step Prices 2014

Pence/kWh/day

| | Burton Point | Caythorpe | Dynevor Arms | Glenmavis | Hatfield Moor | Wytch Farm |
|--------------------------------|--------------|-----------|--------------|-----------|---------------|------------|
| Obligated Level | 0.0001 | 0.0125 | 0.0071 | 0.0128 | 0.0050 | 0.0001 |
| 10% | 0.0029 | 0.0126 | 0.0072 | 0.0157 | 0.0051 | 0.0002 |
| 20% | 0.0030 | 0.0127 | 0.0073 | 0.0158 | 0.0052 | 0.0005 |
| 30% | 0.0031 | 0.0128 | 0.0074 | 0.0159 | 0.0053 | 0.0006 |
| 40% | 0.0032 | 0.0129 | 0.0075 | 0.0160 | 0.0054 | 0.0027 |
| 50% | 0.0033 | 0.0130 | 0.0081 | 0.0161 | 0.0055 | 0.0028 |
| Obligated Level (GWh/d) | 73.5 | 90 | 49 | 99 | 25.3 | 3.3 |

12 Appendix E Estimated Project Values (£m)

£m

| | Bacton | Barrow | Cheshire | Canonbie | Easington & Rough | Fleetwood | Garton | Isle of Grain | Milford Haven | St Fergus | Teesside | Theddlethorpe |
|--------------------------------|---------------|--------------|--------------|----------|-------------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Obligated Level | | | | | | | | | | | | |
| 2.5% | 16.16 | 0.03 | 0.05 | 0.62 | 16.25 | 1.16 | 4.89 | 0.81 | 17.81 | 65.45 | 3.60 | 6.67 |
| 5.0% | 32.32 | 0.06 | 1.83 | 1.24 | 32.50 | 2.43 | 9.78 | 1.62 | 36.12 | 135.95 | 7.20 | 13.89 |
| 7.5% | 48.48 | 0.09 | 2.75 | 1.87 | 48.75 | 3.64 | 16.01 | 3.17 | 56.46 | 204.81 | 11.27 | 20.83 |
| 10.0% | 64.64 | 0.12 | 3.66 | 2.49 | 71.50 | 4.85 | 21.34 | 5.72 | 75.28 | 273.08 | 15.03 | 27.78 |
| 12.5% | 88.72 | 0.76 | 4.58 | 3.11 | 89.38 | 6.06 | 26.68 | 7.77 | 94.10 | 341.35 | 18.78 | 34.72 |
| 15.0% | 108.36 | 0.91 | 14.17 | 4.16 | 107.25 | 7.28 | 32.01 | 35.43 | 112.92 | 409.62 | 22.54 | 43.94 |
| 17.5% | 127.53 | 1.90 | 16.54 | 4.85 | 125.13 | 8.49 | 37.35 | 41.33 | 131.74 | 487.25 | 26.57 | 51.27 |
| 20.0% | 144.49 | 2.66 | 18.90 | 5.54 | 143.00 | 9.70 | 42.68 | 47.24 | 150.56 | 563.98 | 30.37 | 58.59 |
| 22.5% | 162.55 | 2.99 | 21.26 | 6.24 | 160.88 | 11.43 | 48.35 | 53.14 | 169.38 | 634.47 | 34.16 | 66.40 |
| 25.0% | 201.20 | 3.32 | 24.11 | 6.93 | 181.25 | 23.10 | 53.73 | 59.05 | 188.19 | 715.36 | 37.96 | 73.78 |
| 27.5% | 231.78 | 3.66 | 26.52 | 7.62 | 214.50 | 26.04 | 59.10 | 64.95 | 207.01 | 786.89 | 41.75 | 84.14 |
| 30.0% | 256.65 | 3.99 | 28.93 | 8.32 | 237.00 | 28.41 | 64.47 | 70.86 | 231.91 | 902.95 | 45.55 | 91.79 |
| 32.5% | 288.34 | 4.32 | 37.60 | 9.01 | 256.76 | 30.78 | 69.85 | 76.76 | 260.01 | 978.20 | 60.14 | 99.44 |
| 35.0% | 326.04 | 5.50 | 40.50 | 9.95 | 285.26 | 33.14 | 77.83 | 82.67 | 280.01 | 1055.52 | 66.43 | 107.09 |
| 37.5% | 351.71 | 6.34 | 43.39 | 10.66 | 305.63 | 35.51 | 83.39 | 88.57 | 308.88 | 1133.15 | 71.17 | 114.74 |
| 40.0% | 397.97 | 6.77 | 49.37 | 11.37 | 340.01 | 37.88 | 88.95 | 96.47 | 329.47 | 1208.69 | 75.92 | 122.39 |
| 42.5% | 430.92 | 7.19 | 71.30 | 12.08 | 361.26 | 40.25 | 94.51 | 116.23 | 357.23 | 1284.23 | 80.66 | 130.04 |
| 45.0% | 524.71 | 10.33 | 75.50 | 12.79 | 382.51 | 42.61 | 100.07 | 123.07 | 378.25 | 1359.77 | 85.41 | 139.64 |
| 47.5% | 605.03 | 10.90 | 90.68 | 13.50 | 403.76 | 44.98 | 106.33 | 129.90 | 399.26 | 1435.32 | 90.15 | 149.46 |
| 50.0% | 640.04 | 13.29 | 95.46 | 14.21 | 425.01 | 47.35 | 116.41 | 142.96 | 432.09 | 1510.86 | 100.43 | 156.24 |
| 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 |

£m

| | Hole House Farm | Hornsea | Partington | Avonmouth | Barton Stacey |
|--------------------------------|-----------------|--------------------------------|--------------|--------------------------------|---------------|
| Obligated Level | | Obligated Level | | Obligated Level | |
| 5.1% | 0.05 | 6.4% | 6.29 | 7.0% | 0.53 |
| 10.1% | 0.11 | 12.9% | 12.58 | 14.0% | 1.07 |
| 15.2% | 0.16 | 19.3% | 20.79 | 20.9% | 3.20 |
| 20.2% | 1.49 | 25.7% | 27.72 | 27.9% | 4.26 |
| 25.3% | 1.87 | 32.2% | 34.65 | 34.9% | 5.33 |
| 30.3% | 2.24 | 38.6% | 41.57 | 41.9% | 6.40 |
| 35.4% | 2.61 | 45.0% | 48.88 | 48.8% | 7.46 |
| 40.5% | 2.99 | 51.5% | 55.86 | 55.8% | 8.53 |
| 45.5% | 4.32 | | | | |
| 50.6% | 10.66 | | | | |
| 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 |

Estimated Project Value (£m)

£m

| | Burton Point | Caythorpe | Dynevor Arms | Glenmavis | Hatfield Moor | Wyth Farm |
|--------------------------------|--------------|-------------|--------------|-------------|---------------|------------|
| Obligated Level | | | | | | |
| 10% | 0.76 | 4.00 | 1.24 | 5.52 | 0.45 | 0.001 |
| 20% | 1.52 | 8.00 | 2.47 | 11.05 | 0.90 | 0.012 |
| 30% | 2.27 | 11.99 | 3.71 | 16.57 | 1.35 | 0.018 |
| 40% | 3.03 | 15.99 | 4.95 | 22.09 | 1.80 | 0.127 |
| 50% | 3.79 | 19.99 | 7.05 | 27.62 | 2.43 | 0.158 |
| Obligated Level (GWh/d) | 73.5 | 90.0 | 49.0 | 99.0 | 25.3 | 3.3 |