

Sarah J Wheeler
Capacity Auctions
Market Operation

capacityauctions@nationalgrid.com

Direct tel +44 (0)1926 654057

Direct fax +44 (0)1926 654059

www.nationalgrid.com

Monday 8th February 2016

Dear Colleague,

Annual Invitation to Participate in Auction of Quarterly System Entry Capacity

Pursuant to Section B 2.2.1(d) of the Transportation Principal Document (TPD) of the Uniform Network Code (UNC), National Grid Gas plc ("National Grid") in its role as holder of the Gas Transporter Licence in respect of the National Transmission System (NTS) (the "Licence") invites you to take part in the 2016 auction for Quarterly System Entry Capacity (QSEC). National Grid will conduct the annual QSEC auction on Business Days between **7th March 2016 and 18th March 2016**.

The auction is for Quarterly Firm NTS Entry Capacity for the transaction period **1st October 2017 to 30th September 2032**. Users can make applications for each calendar quarter within this period.

The provisions of the UNC (including in particular, but not limited to, TPD Section B) shall apply to this invitation, the 2016 auction for QSEC and any bids made and rejected or accepted pursuant to such auction, and any subsequent allocation of QSEC. Words and expressions which are capitalised but not defined in this invitation but which are defined in the UNC shall have the meanings given to them in the UNC.

As specified in TPD Section B 2.2.9(a) of the UNC, each bidding window in the QSEC auction will commence at 08:00 and close at 17:00 on each day specified below, subject to the stability measure being reached. A QSEC bid may be withdrawn or amended until but not after 17:00 on each day.

Auction Timing

In accordance with UNC TPD Section B 2.2.1(d), National Grid will conduct the annual QSEC auction between 7th March 2016 and 18th March 2016 on the annual invitation dates listed below.

- **Monday 7th March**
- **Tuesday 8th March**
- **Wednesday 9th March**
- **Thursday 10th March**
- **Friday 11th March**

- **Monday 14th March**
- **Tuesday 15th March**
- **Wednesday 16th March**
- **Thursday 17th March**
- **Friday 18th March**

In accordance with the provisions of the UNC (and, in particular, TPD Section B2.2.19), National Grid shall close the annual QSEC auction on the last date listed, or before if the stability measure is reached. The earliest this can occur is after Interim Bid Window 2 (IBW2) from 9th March 2016 onwards.

National Grid reserves the right (as far as allowed under UNC) to amend the auction timings and withdraw and re-issue the auction invitation. Furthermore, although unlikely, National Grid reserves the right to raise UNC Modifications, requesting urgency or otherwise.

Entry Capacity Regime

It is a User's responsibility to understand the NTS Entry Capacity regime, determine a strategy and bid accordingly. For further information on the regime and QSEC auctions please refer to Appendix 4 onwards.

Please refer to the Joint Office website (<http://www.gasgovernance.co.uk/livemods>) with regards to any outstanding modifications which may affect capacity during this transaction period.

Entry Capacity Retainers

In accordance with UNC TPD Section B2.15 and in particular the ECS, National Grid opened the retainer window on 12th and 14th January 2016, for Shippers to participate and take out a retainer at ASEPs where they wanted to exclude available entry capacity from being treated as Substitutable Capacity¹ without having to buy it.

The Retainer invitation notice and aggregate results were published via <http://marketinformation.natgrid.co.uk/Gas/CapacityReports.aspx>.

However, there were no retainers requested during the retainer windows on the dates above.

NTS Entry Capacity Offered

In accordance with its obligation pursuant to UNC TPD Section B2.2, National Grid invites offers in respect of the Unsold NTS Entry Capacity, as shown in Appendix 2.

Requests for Incremental Obligated Entry Capacity that cannot be met through substitution may be allocated as Non-Obligated Incremental Entry Capacity at the sole discretion of National Grid.

Entry Capacity Substitution

The NTS Entry Capacity Substitution Methodology Statement² (ECS) is available on the National Grid website via <http://www2.nationalgrid.com/uk/industry-information/gas-capacity-methodologies/entry-capacity-substitution-methodology-statement/>. The principle of NTS Entry Capacity Substitution may be applied to meet demand for Incremental Obligated Entry Capacity (IOEC) in the March 2016 QSEC.

Entry Capacity Substitution means that where IOEC is required, this should first be met by reducing available obligated entry capacity at other ASEPs (the "donor" ASEPs) where capacity is unsold and not otherwise excluded from substitution, before undertaking investment in new infrastructure. The result of this is that, when the substitution obligation is applied, NTS Entry Capacity that is not booked can be moved to other ("recipient") ASEPs and will not be available as unsold obligated capacity at the original (donor) ASEP in future auctions. In addition to this, capacity that has been reserved under the new PARCA process will be excluded from substitution.

Whilst National Grid may be able to satisfy a request for capacity via the release of non-obligated capacity or via substitution the only way to guarantee release of incremental capacity is via the PARCA process.

Information Provision

Information will be published by National Grid after each Interim Bid Window (IBW) on each Business Day the auction remains open, for each Aggregate System Entry Point (ASEP) and each relevant quarter. This can found on Gemini report screens (Product>Publish Results>MoS Results>screens) and will be available by 8pm (as per UNC

¹ As defined in the ECS.

² Further documents are available on our website at: <http://www2.nationalgrid.com/uk/industry-information/gas-capacity-methodologies/entry-capacity-substitution-methodology-statement/>

TPD Section B.2.14.1), and on the National Grid website as soon as practicable via <http://marketinformation.natgrid.co.uk/Gas/CapacityReports.aspx> by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Bid Window Results
From Month/Year: Oct-17
To Month/Year: Sep-32

The final allocation will be determined by application of the tests described in National Grid's current Incremental Entry Capacity Release Model and Methodology Statement (IECR) and UNC (TPD Section B.2.6). The IECR statement is available on the National Grid website

<http://www2.nationalgrid.com/uk/Industry-information/Gas-capacity-methodologies/Entry-Capacity-Release-Methodology-Statement/>

National Grid will inform Users of their QSEC capacity allocation, in accordance with UNC TPD Section B.2.6.7, within Gemini no later than two calendar months after the last annual invitation date and therefore, at the latest by 27th May 2015. Allocation information will be published by National Grid within Gemini and also on the National Grid website in accordance with the UNC TPD Section B.2.14.2 for each ASEP and each relevant period via

<http://marketinformation.natgrid.co.uk/Gas/CapacityReports.aspx> by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Allocation Results
From Month/Year: Oct-17
To Month/Year: Sep-32

Incremental Prices

On 7th January 2016 National Grid issued the Statement of Gas Transmission Transportation Charges in which are detailed the incremental price steps that apply to the QSEC auction. Appendix D of the statement contains the Entry Capacity reserve prices together with the price steps for each level of incremental capacity for use in the QSEC auction, while Appendix E covers the estimated project values.

The statement can be found at <http://www.gasgovernance.co.uk/ntscharges/2016>. Entry Capacity reserve prices and price steps are included in Appendix 1 of this letter.

Other Information

As a result of EU Implementation on 1st November 2015 this auction is for GB Entry points only (excluding IPs (Interconnection Points)). Both Entry and Exit auctions for Bacton and Moffat IPs take place on PRISMA, the auction schedule for PRISMA can be found at <https://platform.prisma-capacity.eu/>. Please be aware that the first day of the 2016 Long Term auction for IPs is the 7th March, the same day as the first QSEC bid window.

National Grid's views on potential future demand for NTS Entry Capacity and its implications for the Gas National Transmission System are reflected by the supply scenarios described in its current Gas Ten Year Statement - <http://www2.nationalgrid.com/UK/Industry-information/Future-of-Energy/Gas-Ten-Year-Statement/>.

High level information on the key drivers behind the scenarios within the Ten Year Statement may be found in our [UK Future Energy Scenarios document](#).

National Grid's supply forecasts are built from information received from a combination of its Transporting Britain's Energy (TBE) consultation process and commercial sources. It is anticipated that long-term capacity (QSEC) auctions will provide a further source of information.

Please note that this invitation is being sent by e-mail via the Energy Networks Association. An ANS message will also be issued informing users that the invitation has been issued. The invitation will also be posted on the National Grid website via

<http://marketinformation.natgrid.co.uk/Gas/CapacityReports.aspx> and by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Invitation Letter
From/To Month/Year: Oct-17 to Sep-32

National Grid has put this document together with due care and in good faith. In the unlikely event of an error, National Grid reserves its right to correct the error and amend relevant elements of the auction as required.

If you have any queries with regards to entry capacity, the auction mechanism, Gemini or information provision then please do not hesitate to contact a member of our team on +44 (0)1926 65 4057. Alternatively you can e-mail the capacity team regarding any capacity issues at capacityauctions@nationalgrid.com.

The relevant information relating to this auction (QSEC 2016) can be found in the following Appendices:

- **Appendix 1** **Entry Capacity reserve prices and price steps**
- **Appendix 2** **Unsold Obligated Capacity, by ASEP, by quarter**
- **Appendix 3** **Useful sources relating to Entry Capacity Regime and QSEC auctions**
- **Appendix 4** **List of Potential Advisors for bidding strategies/other commercial advice**

Yours faithfully,

Sarah J Wheeler
Market Operation
National Grid

Appendix 1

Entry Capacity reserve prices and price steps

	Bacton Terminal UKCS	Barrow	Cheshire	Canonbie	Easington & Rough	Fleetwood	Garton	Isle of Grain	Milford Haven	St Fergus	Teesside	Theddlethorpe
Obligated Level	0.0112	0.0001	0.0001	0.0040	0.0142	0.0013	0.0155	0.0017	0.0231	0.0475	0.0099	0.0137
2.5%	0.0113	0.0002	0.0029	0.0041	0.0143	0.0023	0.0156	0.0018	0.0234	0.0491	0.0100	0.0138
5.0%	0.0114	0.0003	0.0030	0.0042	0.0144	0.0024	0.0157	0.0095	0.0247	0.0492	0.0101	0.0142
7.5%	0.0115	0.0004	0.0043	0.0043	0.0145	0.0025	0.0158	0.0104	0.0248	0.0493	0.0102	0.0143
10.0%	0.0116	0.0005	0.0048	0.0044	0.0146	0.0026	0.0159	0.0105	0.0249	0.0494	0.0105	0.0144
12.5%	0.0117	0.0006	0.0049	0.0045	0.0147	0.0029	0.0160	0.0117	0.0250	0.0502	0.0108	0.0145
15.0%	0.0118	0.0007	0.0072	0.0046	0.0155	0.0033	0.0161	0.0119	0.0251	0.0505	0.0109	0.0155
17.5%	0.0119	0.0012	0.0073	0.0047	0.0169	0.0039	0.0162	0.0120	0.0252	0.0511	0.0122	0.0156
20.0%	0.0120	0.0025	0.0080	0.0048	0.0170	0.0040	0.0163	0.0121	0.0255	0.0518	0.0123	0.0157
22.5%	0.0121	0.0026	0.0081	0.0049	0.0171	0.0041	0.0164	0.0122	0.0256	0.0520	0.0124	0.0158
25.0%	0.0122	0.0027	0.0082	0.0050	0.0172	0.0042	0.0165	0.0123	0.0257	0.0543	0.0128	0.0159
27.5%	0.0125	0.0028	0.0083	0.0051	0.0173	0.0043	0.0166	0.0124	0.0258	0.0544	0.0132	0.0160
30.0%	0.0126	0.0029	0.0084	0.0052	0.0174	0.0044	0.0167	0.0125	0.0259	0.0545	0.0142	0.0161
32.5%	0.0127	0.0030	0.0085	0.0053	0.0175	0.0045	0.0168	0.0126	0.0260	0.0546	0.0143	0.0162
35.0%	0.0138	0.0031	0.0086	0.0054	0.0176	0.0046	0.0169	0.0127	0.0261	0.0547	0.0144	0.0163
37.5%	0.0139	0.0032	0.0091	0.0055	0.0177	0.0047	0.0170	0.0128	0.0269	0.0548	0.0145	0.0164
40.0%	0.0140	0.0047	0.0095	0.0056	0.0183	0.0048	0.0171	0.0129	0.0270	0.0549	0.0146	0.0165
42.5%	0.0141	0.0048	0.0133	0.0057	0.0184	0.0052	0.0172	0.0130	0.0275	0.0550	0.0147	0.0166
45.0%	0.0142	0.0049	0.0134	0.0058	0.0185	0.0069	0.0173	0.0131	0.0282	0.0551	0.0148	0.0167
47.5%	0.0143	0.0050	0.0135	0.0059	0.0186	0.0078	0.0174	0.0132	0.0283	0.0552	0.0149	0.0168
50.0%	0.0144	0.0054	0.0136	0.0060	0.0187	0.0079	0.0175	0.0133	0.0304	0.0553	0.0150	0.0169
Obligated Level (GWh/d)	485.6	340.0	542.7	0	1407.15	650	420	699.68	950	1670.7	445.1	610.7

Pence/kWh/day

Hole House Farm		Hornsea		Partington		Avonmouth		Barton Stacey	
Obligated Level	0.0001	Obligated Level	0.0123	Obligated Level	0.0001	Obligated Level	0.0001	Obligated Level	0.0001
5.1%	0.0002	6.4%	0.0124	7.0%	0.0002	8.4%	0.0002	8.7%	0.0071
10.1%	0.0003	12.9%	0.0125	14.0%	0.0003	16.7%	0.0003	17.4%	0.0077
15.2%	0.0015	19.3%	0.0126	20.9%	0.0004	25.1%	0.0004	26.1%	0.0091
20.2%	0.0016	25.7%	0.0127	27.9%	0.0010	33.5%	0.0005	34.8%	0.0097
25.3%	0.0021	32.2%	0.0128	34.9%	0.0016	41.8%	0.0006	43.5%	0.0098
30.3%	0.0022	38.6%	0.0129	41.9%	0.0026	50.2%	0.0007	52.1%	0.0099
35.4%	0.0023	45.0%	0.0133	48.8%	0.0031				
40.5%	0.0024	51.5%	0.0134	55.8%	0.0042				
45.5%	0.0025								
50.6%	0.0026								
Obligated Level (GWh/d)	296.6		233.1		215		179.3		172.6

Pence/kWh/day

	Burton Point	Caythorpe	Dynevor Arms	Glenmavis	Hatfield Moor	Wytch Farm
Obligated Level	0.0001	0.0131	0.0023	0.0135	0.0051	0.0001
10%	0.0002	0.0132	0.0074	0.0165	0.0052	0.0002
20%	0.0003	0.0133	0.0075	0.0166	0.0053	0.0003
30%	0.0004	0.0134	0.0076	0.0167	0.0054	0.0004
40%	0.0005	0.0135	0.0077	0.0168	0.0055	0.0005
50%	0.0006	0.0136	0.0078	0.0169	0.0056	0.0006
Obligated Level (GWh/d)	73.5	90	49	99	25.3	3.3

Appendix 2

Entry Capacity Unsold Obligated Quantity Offered (kWh/day)

		01/10/2017	to	30/09/2018	
ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	32,512,167	34,496,423	35,747,911	36,870,664
Barrow	BR	221,963,170	157,699,000	252,954,832	255,787,304
Barton Stacey	BS	65,340,000	65,340,000	65,340,000	65,340,000
Bacton UKCS	BU	43,610,562	-	376,035,515	378,735,515
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	222,435,379	-	1,006,935,852	1,014,335,852
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	17,500,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	55,280,000	55,280,000
Milford Haven	MH	-	-	147,000,000	147,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,049,526,359	1,058,296,512	1,458,473,167	1,472,873,167
Teesside	TE	249,433,927	276,289,004	290,730,407	291,491,007
Theddlethorpe	TH	525,701,330	533,830,000	535,530,000	536,430,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2018

to

30/09/2019

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	50,293,022	50,880,318	51,511,117	52,163,667
Barrow	BR	234,930,935	166,694,165	262,274,669	257,027,588
Barton Stacey	BS	65,340,000	65,340,000	65,340,000	65,340,000
Bacton UKCS	BU	53,352,182	-	381,736,854	385,136,854
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	245,326,499	-	1,016,928,822	1,019,328,822
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	75,600,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	55,280,000	55,280,000
Milford Haven	MH	-	-	147,000,000	147,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,278,481,044	1,285,425,442	1,481,304,636	1,481,304,636
Teesside	TE	276,539,110	295,467,713	308,742,343	310,183,627
Theddlethorpe	TH	537,530,000	538,830,000	539,430,000	539,930,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2019

to

30/09/2020

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	53,011,983	53,708,037	54,208,325	57,601,588
Barrow	BR	248,076,802	219,651,899	290,794,614	285,414,059
Barton Stacey	BS	65,340,000	65,340,000	65,340,000	65,340,000
Bacton UKCS	BU	63,153,521	-	387,347,154	390,847,154
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	255,536,273	-	1,065,984,927	1,067,284,927
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	55,280,000	55,280,000
Milford Haven	MH	-	-	47,000,000	47,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,380,361,633	1,384,855,872	1,481,855,872	1,481,855,872
Teesside	TE	309,789,059	321,718,168	320,653,662	323,928,301
Theddlethorpe	TH	540,430,000	540,830,000	541,330,000	541,730,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2020

to

30/09/2021

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	57,775,602	57,993,118	59,124,206	61,147,113
Barrow	BR	288,552,884	11,706,235	296,267,465	292,081,507
Barton Stacey	BS	65,340,000	65,340,000	83,340,000	83,340,000
Bacton UKCS	BU	96,263,821	-	427,216,500	427,216,500
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	279,008,643	-	1,113,532,449	1,114,032,449
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	55,280,000	55,280,000
Milford Haven	MH	-	-	600,000,000	600,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,404,907,464	1,413,513,896	1,490,413,896	1,490,413,896
Teesside	TE	324,035,005	356,944,973	356,621,575	357,308,760
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2021

to

30/09/2022

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	293,164,746	15,750,070	298,566,557	295,016,680
Barton Stacey	BS	83,340,000	83,340,000	155,340,000	155,340,000
Bacton UKCS	BU	122,033,167	-	429,170,941	429,170,941
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	306,763,899	37,227,324	1,258,476,564	1,258,976,564
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	95,280,000	95,280,000
Milford Haven	MH	150,000,000	150,000,000	600,000,000	600,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,457,793,332	1,460,693,332	1,494,030,000	1,494,030,000
Teesside	TE	358,440,115	368,583,916	369,037,385	370,181,616
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2022

to

30/09/2023

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	295,855,854	26,270,209	305,031,889	304,451,602
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	123,587,608	-	436,724,730	436,724,730
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	298,933,787	32,076,443	1,262,197,457	1,262,197,457
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	238,000,000	238,000,000
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	9,810,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	95,280,000	95,280,000
Milford Haven	MH	150,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,468,817,225	1,469,182,409	1,492,897,931	1,492,897,931
Teesside	TE	370,009,900	397,741,583	397,831,035	397,911,991
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2023

to

30/09/2024

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	304,487,938	25,501,720	305,058,529	304,497,009
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	131,141,397	-	131,456,667	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	-	-
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	418,741,854	287,780,441	1,265,241,854	1,265,741,854
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	238,000,000	238,000,000	378,000,000	378,000,000
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	155,280,000	155,280,000
Milford Haven	MH	180,500,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,474,228,504	1,479,460,573	1,499,381,442	1,499,381,442
Teesside	TE	397,988,649	398,063,545	399,358,131	399,467,972
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2024

to

30/09/2025

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	304,532,612	27,819,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	131,456,667	-	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	-	-	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	479,309,388	425,709,388	1,268,427,829	1,268,827,829
Fleetwood	FL	650,000,000	300,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	185,280,000	185,280,000	155,280,000	235,440,000
Milford Haven	MH	300,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,496,665,095	1,497,154,843	1,499,871,190	1,499,871,190
Teesside	TE	399,546,002	399,735,341	399,782,956	399,807,143
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2025

to

30/09/2026

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	27,819,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	131,456,667	131,456,667	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	542,173,239	541,284,351	1,271,468,795	1,271,468,795
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	7,320,971	7,320,971	7,320,971	7,320,971
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	235,440,000	235,440,000	235,440,000	235,440,000
Milford Haven	MH	300,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,499,871,190	1,500,877,882	1,500,877,882	1,500,877,882
Teesside	TE	399,859,650	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2026

to

30/09/2027

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	666,350,000	665,461,111	1,280,350,000	1,280,350,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	165,000,000	165,000,000	165,000,000	165,000,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	235,440,000	235,440,000	235,440,000	235,440,000
Milford Haven	MH	300,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2027

to

30/09/2028

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	818,950,000	818,950,000	1,300,950,000	1,300,950,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	165,000,000	165,000,000	165,000,000	165,000,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	235,440,000	235,440,000	235,440,000	235,440,000
Milford Haven	MH	950,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2028

to

30/09/2029

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,300,950,000	1,300,950,000	1,300,950,000	1,300,950,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	165,000,000	165,000,000	165,000,000	165,000,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	303,256,000	303,256,000	303,256,000	303,256,000
Milford Haven	MH	950,000,000	150,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2029

to

30/09/2030

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,300,950,000	1,300,950,000	1,300,950,000	1,300,950,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	283,440,000	283,440,000	283,440,000	283,440,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	653,256,000	653,256,000	653,256,000	653,256,000
Milford Haven	MH	950,000,000	300,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2030

to

30/09/2031

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	-	-	-	-
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,300,950,000	1,300,950,000	1,300,950,000	1,300,950,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	283,440,000	283,440,000	283,440,000	283,440,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	653,256,000	653,256,000	653,256,000	653,256,000
Milford Haven	MH	950,000,000	950,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

01/10/2031

to

30/09/2032

ASEP		Oct to Dec	Jan to Mar	Apr to Jun	Jul to Sep
Avonmouth	AV	161,370,000	161,370,000	161,370,000	161,370,000
Burton Point	BP	66,150,000	66,150,000	66,150,000	66,150,000
Barrow	BR	306,009,000	306,009,000	306,009,000	306,009,000
Barton Stacey	BS	155,340,000	155,340,000	155,340,000	155,340,000
Bacton UKCS	BU	437,040,000	437,040,000	437,040,000	437,040,000
Canonbie	CB	-	-	-	-
Cheshire	CH	514,110,000	514,110,000	514,110,000	514,110,000
Caythorpe	CT	90,000,000	90,000,000	90,000,000	90,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,300,950,000	1,300,950,000	1,300,950,000	1,300,950,000
Fleetwood	FL	650,000,000	650,000,000	650,000,000	650,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	378,000,000	378,000,000	378,000,000	378,000,000
Hole House Farm	HH	283,440,000	283,440,000	283,440,000	283,440,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	215,600,000	215,600,000	215,600,000	215,600,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	653,256,000	653,256,000	653,256,000	653,256,000
Milford Haven	MH	950,000,000	950,000,000	950,000,000	950,000,000
Partington	PR	193,500,000	193,500,000	193,500,000	193,500,000
St Fergus	SF	1,503,630,000	1,503,630,000	1,503,630,000	1,503,630,000
Teesside	TE	400,581,000	400,581,000	400,581,000	400,581,000
Theddlethorpe	TH	549,630,000	549,630,000	549,630,000	549,630,000
Wytch Farm	WF	2,970,000	2,970,000	2,970,000	2,970,000

Appendix 3

Useful Sources Relating to the Entry Capacity Regime and QSEC Auctions

- National Grid website for QSEC presentation material
<http://www2.nationalgrid.com/UK/Industry-information/Gas-transmission-system-operations/Capacity/Entry-capacity/>
- Joint Office website for UNC documentation and for Transmission Workstream meeting minutes
www.gasgovernance.co.uk
- Ofgem website for NTS Licence and NTS Licence amendments
www.ofgem.gov.uk
- Incremental Entry Capacity Release (IECR) Statement
<http://www2.nationalgrid.com/uk/Industry-information/Gas-capacity-methodologies/Entry-Capacity-Release-Methodology-Statement/>
- Incremental Entry Capacity Release (IECR) Charging Model
<http://www2.nationalgrid.com/uk/Industry-information/Gas-capacity-methodologies/Entry-Capacity-Release-Methodology-Statement/>
- Entry Capacity Substitution (ECS) Methodology Statement
<http://www2.nationalgrid.com/uk/Industry-information/System-charges/Gas-transmission/Charging-Statements/>
- Ten Year Statement
<http://www2.nationalgrid.com/UK/Industry-information/Future-of-Energy/Gas-Ten-Year-Statement/>
- UK Future Energy Scenarios Document (UKFES)
<http://www2.nationalgrid.com/uk/industry-information/future-of-energy/>

Appendix 4

Potential Advisors

We have asked potential advisors to contact us if they wish to have their details included in the QSEC invitation letter.

Below is a list of those advisors that have responded, listed in alphabetical order.

Please note that National Grid has not vetted any requests and that inclusion in the list does not imply they are recommended by National Grid or meet any relevant professional standard. Users should satisfy themselves of the expertise of any potential advisor before engaging them.

The list is as follows;

1. Calvert Consultancy Ltd in association with WatersWye Associates
Elaine Calvert +44(0)7879 431479 elaine@calvertconsultancy.co.uk
Nick Wye +44(0)1789 266811 nick@waterswye.co.uk

2. Pöyry Management Consulting
Andrew Morris +44 (0)1865 812 212 andrew.morris@poyry.com
Angus Paxton +44 (0)1865 812 263 angus.paxton@poyry.com
John Williams +44 (0)1865 812 262 john.williams@poyry.com
Websites: www.poyry.com/ www.illexenergy.com

3. TPA Solutions
Brian Withington MBE +44 (0)1564 778523 brian@tpasolutions.co.uk
Sue Ellwood +44 (0)1564 784725 sue@tpasolutions.co.uk
Website: www.tpasolutions.co.uk

Potential advisors wishing to be included in future lists should contact the Capacity Auctions team at National Grid.