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Monday 20th February 2017

Dear Colleague,

Annual Invitation to Participate in Auction of Quarterly System Entry Capacity

National Grid invites you to take part in the 2017 annual Quarterly System Entry Capacity (QSEC) auction which will take place on Business Days between **20th March 2017** and **31st March 2017**.¹

The auction is for Quarterly Firm NTS Entry Capacity for the transaction period **1st October 2018 to 30th September 2033**. Users can make applications for each calendar quarter within this period.

The provisions of the Uniform Network Code (UNC)² shall apply to this invitation, the 2017 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.

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and close at 17:00 on each day specified below, subject to the stability measure being reached.³ A QSEC bid may be withdrawn or amended until but not after 17:00 on each day.

Auction Timing

National Grid will conduct the annual QSEC auction between 20th March 2017 and 31st March 2017 on the annual invitation dates listed below.

- **Monday 20th March**
- **Tuesday 21st March**
- **Wednesday 22nd March**
- **Thursday 23rd March**
- **Friday 24th March**

- **Monday 27th March**
- **Tuesday 28th March**
- **Wednesday 29th March**
- **Thursday 30th March**
- **Friday 31st March**

¹ 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").

² Including in particular, but not limited to, TPD Section B.

³ As specified in TPD Section B 2.2.9(a) of the UNC.

National Grid shall close the annual QSEC auction on the last date listed, or before if the stability measure is reached.⁴ The earliest this can occur is after Interim Bid Window 2 (IBW2) from 21st March 2017 onwards.

National Grid reserves the right 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 3 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 NTS Entry Capacity Substitution Methodology Statement (ECS), National Grid opened the retainer window on 24th and 26th January 2017, for Shippers to participate and take out a retainer at Aggregated System Entry Points (ASEPs) where they wanted to exclude available Entry Capacity from being treated as Substitutable Capacity⁵ without having to buy it.

The Retainer invitation notice and aggregate results were published via <http://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/capacity/entry-capacity-auction>

There were no retainers requested during the retainer windows on the dates above.

NTS Entry Capacity Offered

National Grid invites offers in respect of the Unsold NTS Entry Capacity, as shown in Appendix 2.⁶

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 Statement⁷ (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 2017 QSEC.

The latest version of the ECS reduces the substitution lead times from Y+4 to Y+2 (where Y is the current Gas Year). The updated versions of the ECS can be found via the above link.

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.

⁴ In accordance with the provisions of the UNC and, in particular, TPD Section B2.2.19.

⁵ As defined in the ECS.

⁶ In accordance with its obligation pursuant to UNC TPD Section B2.2.

⁷ Further documents are available on our website at: <http://www2.nationalgrid.com/uk/industry-information/gas-capacity-methodologies/entry-capacity-substitution-methodology-statement/>

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 be found on Gemini report screens (Product>Publish Results>MoS Results>screens) and will be available by 8pm (as per UNC TPD Section B.2.14.1), and on the National Grid website as soon as practicable via <http://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/capacity/entry-capacity-auction/> by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Bid Window Results
From Month/Year: Oct-18
To Month/Year: Sep-33

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 (ECR) and UNC (TPD Section B.2.6). The ECR 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 31st May 2017. 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://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/capacity/entry-capacity-auction/> by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Allocation Results
From Month/Year: Oct-18
To Month/Year: Sep-33

Reserve/Incremental Prices

On 20th January 2017 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/2017>. Entry Capacity reserve prices and price steps are included in Appendix 1 of this letter.

For clarity, it should be noted that any capacity allocated in this auction shall not be subject to any protection afforded by Article 35 of the new EU Tariff Code.

Other Information

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 Future Energy Scenarios (FTE) 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://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/capacity/entry-capacity-auction/> and by selecting the following criteria:

Auction Type: Quarterly System Entry Capacity
Report Type: Invitation Letter

From/To Month/Year: Oct-18 to Sep-33

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 2017) 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
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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	0.0114	0.0001	0.0001	0.0040	0.0139	0.0027	0.0159	0.0093	0.0255	0.0487	0.0101	0.0140
2.5%	0.0115	0.0002	0.0026	0.0041	0.0140	0.0028	0.0160	0.0099	0.0256	0.0503	0.0102	0.0146
5.0%	0.0116	0.0003	0.0027	0.0042	0.0145	0.0029	0.0161	0.0121	0.0257	0.0504	0.0103	0.0147
7.5%	0.0117	0.0006	0.0028	0.0043	0.0146	0.0031	0.0162	0.0122	0.0258	0.0505	0.0104	0.0148
10.0%	0.0118	0.0007	0.0032	0.0044	0.0147	0.0037	0.0163	0.0123	0.0259	0.0506	0.0110	0.0154
12.5%	0.0119	0.0017	0.0033	0.0045	0.0148	0.0038	0.0164	0.0124	0.0260	0.0516	0.0111	0.0155
15.0%	0.0120	0.0018	0.0043	0.0046	0.0152	0.0039	0.0165	0.0125	0.0261	0.0519	0.0112	0.0159
17.5%	0.0121	0.0019	0.0044	0.0047	0.0173	0.0040	0.0166	0.0126	0.0262	0.0522	0.0113	0.0160
20.0%	0.0122	0.0022	0.0051	0.0048	0.0174	0.0041	0.0167	0.0127	0.0263	0.0531	0.0114	0.0161
22.5%	0.0123	0.0025	0.0055	0.0049	0.0175	0.0042	0.0168	0.0128	0.0264	0.0532	0.0115	0.0162
25.0%	0.0124	0.0026	0.0079	0.0050	0.0176	0.0043	0.0169	0.0129	0.0265	0.0534	0.0128	0.0163
27.5%	0.0125	0.0027	0.0080	0.0051	0.0177	0.0044	0.0170	0.0130	0.0266	0.0558	0.0134	0.0164
30.0%	0.0126	0.0028	0.0091	0.0052	0.0178	0.0045	0.0171	0.0131	0.0267	0.0559	0.0135	0.0165
32.5%	0.0127	0.0048	0.0092	0.0053	0.0179	0.0046	0.0172	0.0132	0.0268	0.0560	0.0136	0.0166
35.0%	0.0141	0.0049	0.0093	0.0054	0.0180	0.0051	0.0173	0.0133	0.0277	0.0561	0.0137	0.0167
37.5%	0.0142	0.0050	0.0094	0.0055	0.0181	0.0052	0.0174	0.0134	0.0280	0.0562	0.0138	0.0168
40.0%	0.0143	0.0051	0.0095	0.0056	0.0182	0.0068	0.0175	0.0135	0.0289	0.0563	0.0145	0.0169
42.5%	0.0144	0.0052	0.0096	0.0057	0.0183	0.0076	0.0176	0.0136	0.0312	0.0564	0.0146	0.0173
45.0%	0.0145	0.0055	0.0097	0.0058	0.0188	0.0079	0.0177	0.0137	0.0313	0.0565	0.0147	0.0177
47.5%	0.0146	0.0056	0.0098	0.0059	0.0189	0.0083	0.0178	0.0138	0.0314	0.0566	0.0148	0.0178
50.0%	0.0147	0.0057	0.0099	0.0066	0.0190	0.0084	0.0179	0.0139	0.0315	0.0567	0.0150	0.0179
Obligated Level (GWh/d)	485.6	340.01	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	0.0126	Obligated Level	0.0001	Obligated Level	0.0001	Obligated Level	0.0001
5.1%	0.0002	6.4%	0.0127	7.0%	0.0012	8.4%	0.0002	8.7%	0.0075
10.1%	0.0003	12.9%	0.0128	14.0%	0.0023	16.7%	0.0007	17.4%	0.0076
15.2%	0.0004	19.3%	0.0129	20.9%	0.0043	25.1%	0.0008	26.1%	0.0096
20.2%	0.0005	25.7%	0.0130	27.9%	0.0044	33.5%	0.0011	34.8%	0.0106
25.3%	0.0016	32.2%	0.0131	34.9%	0.0045	41.8%	0.0019	43.5%	0.0108
30.3%	0.0020	38.6%	0.0133	41.9%	0.0046	50.2%	0.0035	52.1%	0.0129
35.4%	0.0021	45.0%	0.0136	48.8%	0.0047				
40.5%	0.0022	51.5%	0.0137	55.8%	0.0048				
45.5%	0.0039								
50.6%	0.0040								
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	0.0134	0.0010	0.0138	0.0052	0.0001
10%	0.0002	0.0135	0.0011	0.0139	0.0053	0.0002
20%	0.0006	0.0136	0.0012	0.0169	0.0054	0.0003
30%	0.0007	0.0137	0.0017	0.0170	0.0055	0.0004
40%	0.0008	0.0138	0.0046	0.0171	0.0056	0.0005
50%	0.0009	0.0139	0.0069	0.0172	0.0057	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)

		01/10/2018	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	210,811,499	-	982,413,822	984,813,822
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	4,000,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	7,076,000	7,076,000
Milford Haven	MH	-	-	52,000,000	52,000,000
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	221,021,273	-	1,031,469,927	1,032,769,927
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	4,000,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	7,076,000	7,076,000
Milford Haven	MH	-	-	-	-
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	244,493,643	-	1,079,017,449	1,079,517,449
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	4,000,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	7,076,000	7,076,000
Milford Haven	MH	-	-	505,000,000	505,000,000
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	272,248,899	2,712,324	1,223,961,564	1,224,461,564
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
Glenmavis	GM	89,100,000	89,100,000	89,100,000	89,100,000
Garton	GR	-	-	-	-
Hole House Farm	HH	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	4,000,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	47,076,000	47,076,000
Milford Haven	MH	55,000,000	55,000,000	505,000,000	505,000,000
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	264,418,787	-	1,227,682,457	1,227,682,457
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	4,000,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	47,076,000	47,076,000
Milford Haven	MH	55,000,000	55,000,000	855,000,000	855,000,000
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	384,226,854	253,265,441	1,230,726,854	1,231,226,854
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	-	-	107,076,000	107,076,000
Milford Haven	MH	85,500,000	55,000,000	855,000,000	855,000,000
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	-	-	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	444,794,388	391,194,388	1,233,912,829	1,234,312,829
Fleetwood	FL	585,000,000	235,000,000	585,000,000	585,000,000
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	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	500,000	22,500,000	22,500,000
Isle of Grain	IG	137,076,000	137,076,000	107,076,000	207,076,000
Milford Haven	MH	205,000,000	55,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	507,658,239	506,769,351	1,236,953,795	1,236,953,795
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	-	-	-	-
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	207,076,000	207,076,000	207,076,000	207,076,000
Milford Haven	MH	205,000,000	55,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	631,835,000	630,946,111	1,245,835,000	1,245,835,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	148,500,000	148,500,000	148,500,000	148,500,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	207,076,000	207,076,000	207,076,000	207,076,000
Milford Haven	MH	205,000,000	55,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	784,435,000	784,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	148,500,000	148,500,000	148,500,000	148,500,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	207,076,000	207,076,000	207,076,000	207,076,000
Milford Haven	MH	855,000,000	55,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,266,435,000	1,266,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	148,500,000	148,500,000	148,500,000	148,500,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	279,676,000	279,676,000	279,676,000	279,676,000
Milford Haven	MH	855,000,000	55,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,266,435,000	1,266,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	266,940,000	266,940,000	266,940,000	266,940,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	629,676,000	629,676,000	629,676,000	629,676,000
Milford Haven	MH	855,000,000	205,000,000	855,000,000	855,000,000
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	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,266,435,000	1,266,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	266,940,000	266,940,000	266,940,000	266,940,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	629,676,000	629,676,000	629,676,000	629,676,000
Milford Haven	MH	855,000,000	855,000,000	855,000,000	855,000,000
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	-	-	-	-
Caythorpe	CT	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,266,435,000	1,266,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	266,940,000	266,940,000	266,940,000	266,940,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	629,676,000	629,676,000	629,676,000	629,676,000
Milford Haven	MH	855,000,000	855,000,000	855,000,000	855,000,000
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

01/10/2032

to

30/09/2033

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	488,430,000	488,430,000	488,430,000	488,430,000
Caythorpe	CT	81,000,000	81,000,000	81,000,000	81,000,000
Dynevor Arms	DA	44,100,000	44,100,000	44,100,000	44,100,000
Easington	EA	1,266,435,000	1,266,435,000	1,266,435,000	1,266,435,000
Fleetwood	FL	585,000,000	585,000,000	585,000,000	585,000,000
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	266,940,000	266,940,000	266,940,000	266,940,000
Hatfield Moor (Onshore)	HM	270,000	270,000	270,000	270,000
Hornsea	HS	209,790,000	209,790,000	209,790,000	209,790,000
Hatfield Moor (Storage)	HT	22,500,000	22,500,000	22,500,000	22,500,000
Isle of Grain	IG	629,676,000	629,676,000	629,676,000	629,676,000
Milford Haven	MH	855,000,000	855,000,000	855,000,000	855,000,000
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.