

2009 GB Seven Year Statement Update

August 2009

INTRODUCTION

We are pleased to present the August 2009 Update to our 2009 GB Seven Year Statement. The Updates are issued at regular intervals (normally quarterly), each reporting on the main developments since the previous issue and largely reflecting information changes notified to us by our customers. This is the second Update of our 2009 GB Seven Year Statement and reports on changes notified to us up to 31st August 2009.

For this SYS update, the presentation format has been changed slightly to enhance clarity, in particular, in relation to reported plant margins, which are now measured against National Grid Base peak demand forecasts as well as the Customer-Based forecasts. Although the content of the document has not changed, the sections on generation capacity totals, peak demands and plant margin figures have been moved to the front, incorporating a chart to help illustrate the potential various margin levels.

TRANSMISSION NETWORKS QUARTERLY CONNECTIONS UPDATE

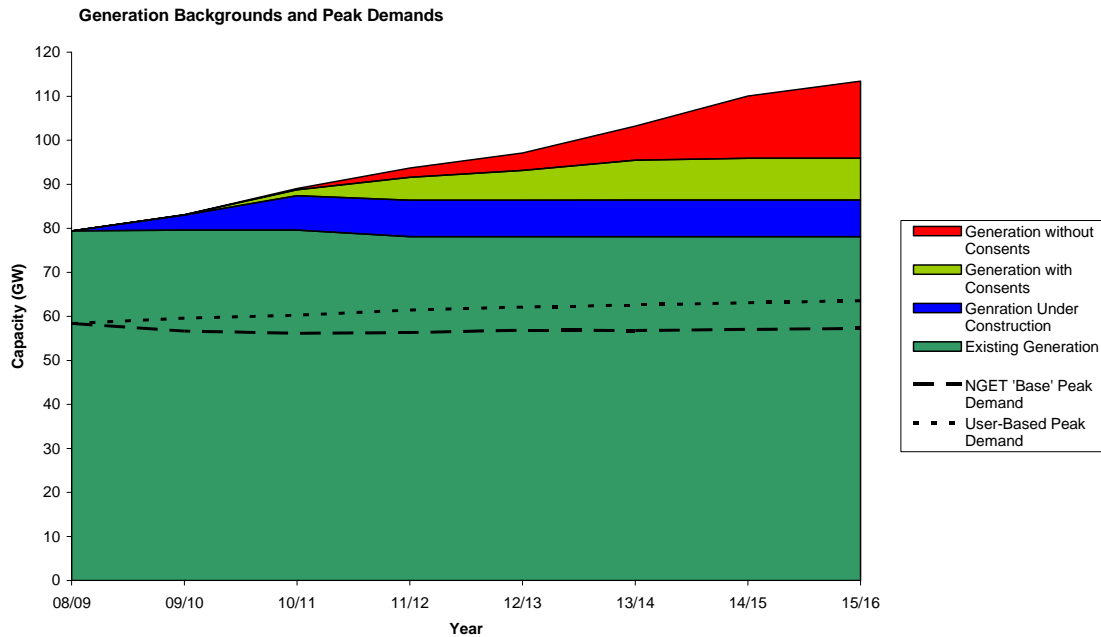
The Transmission Networks Quarterly Connections Update is a new document produced by NGET which provides information on the status of generation agreements. The document is intended to complement the Seven Year Statement updates, and can be viewed on the following web page.

http://www.nationalgrid.com/uk/Electricity/GettingConnected/gb_agreements/

It is intended to eventually include future Seven Year Statement updates within the same document as the Transmission Networks Quarterly Connections Update.

GENERATION BACKGROUNDS AND DEMAND FORECASTS

This section gives information on capacity totals for various generation backgrounds together with the peak demands for two separate forecasts. The capacity totals are for all directly-connected and Large Power Stations, and corresponds to the contracted position as of the freeze date for this update. Capacity values are based on station TEC values where possible. The winter peak demands are the customer-based forecasts and NG 'Base' forecasts from the main 2009 SYS.



The table below shows the generation backgrounds used, and gives the capacity totals and peak demands for the seven years up to 2015/16, plus one historical year. The accompanying chart shows the relation between the peak demands and the various generation backgrounds graphically.

Generation / Demand (MW)		08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
1	Existing Generation	79417	79565	79567	78117	78117	78117	78117	78117
2	Generation Under Construction	0	3454	7894	8324	8324	8324	8324	8324
3	Subtotal (1+2)	79417	83019	87461	86441	86441	86441	86441	86441
4	Generation with Consents	0	50	1338	4812	7088	9461	9632	9831
5	Subtotal (3+4)	79417	83069	88799	91253	93529	95901	96072	96271
6	Generation without Consents	0	0	325	2099	3675	7365	13983	17172
7	Total (5+6)	79417	83069	89124	93351	97203	103266	110055	113443
8	Customer-Based Peak Demand	58400	59594	60236	61426	62123	62574	63077	63533
9	NG 'Base' Peak Demand	58400	56667	56150	56329	56857	56777	57035	57255

The capacity totals above do not include the importing TEC values for the Moyle Interconnector (80MW) or the East-West Interconnectors (875MW from 2011/12 onwards), as the interconnectors are assumed to be exporting at the time of winter peak. The winter peak demands (customer-based and NG 'Base') exclude station demand, but include the assumed values of exports to Northern Ireland (250MW) and the Republic of Ireland (437.5MW from 2011/12 onwards).

The Existing background includes all planned closures of generation. We have not included any of the LCPD affected stations, however, as the peak demand for 2015/16 could occur before Christmas, and those stations could still be in operation at that time.

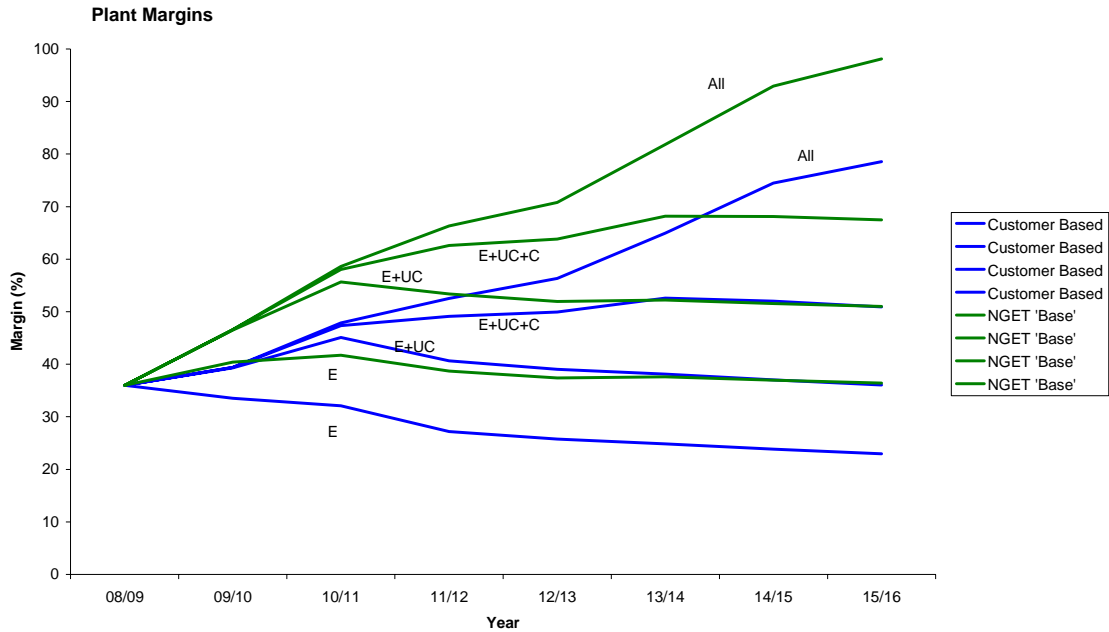
The Consents background includes all planned generation with Section 36 and/or Section 14 consent.

The projects that form the under construction background are given in the following table. Entries in bold italics indicate a change from the previously published position. Langage and Marchwood, although under construction, are not included as their contracted completion dates were in 2008.

Generation Projects Under Construction				
Licensee	Plant Type	Power Station	New Capacity (MW)	Year
NGET	CCGT	Severn Power Stage 1	425	2009
NGET	CCGT	Staythorpe C Stage 1	425	2009
NGET	CCGT	Staythorpe C Stage 2	425	2009
NGET	CCGT	Staythorpe C Stage 3	425	2009
NGET	CCGT	West Burton B Stage 1	435	2009
NGET	Interconnector	Netherlands Interconnector Stage 1	0	2009
NGET	Offshore Wind	Thanet	300	2009
NGET	Offshore Wind	Greater Gabbard	500	2009
SHETL	Onshore Wind	Edinbane Wind, Skye	42	2009
SHETL	Onshore Wind	Fairburn Wind Farm	40	2009
SHETL	Onshore Wind	Kilbraur (Strath Brora) Wind Farm Stage 2	20	2009
SHETL	Onshore Wind	Millenium Wind, Ceannacroc Stage 3	15	2009
SHETL	Onshore Wind	Gordonbush Wind	70	2009
SPT	Onshore Wind	Crystal Rig 2	200	2009
SPT	Onshore Wind	Dun Law extension	30	2009
SPT	Onshore Wind	Longpark	38	2009
SPT	Onshore Wind	Whitelee Stage 3	29	2009
SPT	Onshore Wind	Toddleburn	36	2009
NGET	CCGT	Grain Stage 2	860	2010
NGET	CCGT	Severn Power Stage 2	425	2010
NGET	CCGT	Staythorpe C Stage 4	425	2010
NGET	CCGT	West Burton B Stage 2	435	2010
NGET	CCGT	West Burton B Stage 3	435	2010
NGET	Interconnector	Netherlands Interconnector Stage 2	800	2010
NGET	Interconnector	Netherlands Interconnector Stage 3	400	2010
SHETL	Hydro	Glendoe, Fort Augustus Stage 2	49	2010
SHETL	Hydro	Fasnakyle Compensation Hydro (Unit 4)	8	2010
SHETL	Onshore Wind	Beinn an Turic 2	38	2010
SHETL	Onshore Wind	Tullo Wind Farm, Laurencekirk	17	2010
SPT	Onshore Wind	Clyde	519	2010
NGET	CCGT	Grain Stage 3	430	2011

PLANT MARGINS

This section presents information on plant margins calculated using the generation backgrounds and demand forecasts given in the previous section.



The table below shows the margins calculated for the seven years up to 2015/16, plus one historical year. The accompanying chart shows the year-by-year sequence of the margins graphically.

Margin (%)		08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
Customer-Based	Existing	36.0	33.5	32.1	27.2	25.7	24.8	23.8	23.0
	Existing and Under Construction	36.0	39.3	45.2	40.7	39.1	38.1	37.0	36.1
	Existing and Under Construction and with Consents	36.0	39.4	47.4	48.6	50.6	53.3	52.3	51.5
	All Generation	36.0	39.4	48.0	52.0	56.5	65.0	74.5	78.6
NGET 'Base'	Existing	36.0	40.4	41.7	38.7	37.4	37.6	37.0	36.4
	Existing and Under Construction	36.0	46.5	55.8	53.5	52.0	52.2	51.6	51.0
	Existing and Under Construction and with Consents	36.0	46.6	58.1	62.0	64.5	68.9	68.4	68.1
	All Generation	36.0	46.6	58.7	65.7	71.0	81.9	93.0	98.1

TRANSMISSION CONTRACTED GENERATION

In the tables in the following sections, data in bold italics indicates differences between this update and the previously published contracted position. The Consents column refers to Section 36 and (where appropriate) Section 14 consents for generation projects.

Existing Transmission Contracted Generation

This section reports on changes to the contracted position of transmission contracted generation that is already connected to the transmission or distribution networks.

Changes to the contracted position include:

- Black Law wind farm have reduced their TEC to 121MW from 01/04/09 onwards.
- The TEC of Dummuies wind farm will increase by 1.85MW by 31/07/10
- Wilton have increased their TEC to 99MW from 01/06/09 onwards.

Further details are given in the following table. Data in bold italics indicates differences between this update and the previously published contracted position.

Station Name	Capacity (MW)		Company	Plant Type	Licensee	Agreement Type
	Previous	New				
Dummuies	10.4	12.25	Dummuies Wind Farm Huntly Ltd	Onshore Wind	SHETL	BCA
Black Law	134	121	CRE Energy Ltd	Onshore Wind	SPT	BCA
Wilton	60	99	Sembcorp Utilities (UK) Limited	CCGT	NGET	BCA
TOTAL	194	220	MW			

Planned Transmission Contracted Generation

This section reports on changes to the contracted position of new planned transmission contracted generation.

The following new contracts have been signed:

- RockbySea Ltd for a 30MW windfarm at Strath Rusdale, with a post-2018 completion date.
- ScottishPower Renewables (UK) Ltd for a 10x1MW tidal array (Sound of Islay) at Port Ann, with a post-2018 completion date.
- Ayrshire Power Ltd for 1600MW of clean coal generation connecting into a terminal at Hunterston, with a post-2018 completion date.
- Thorpe Marsh Power Ltd for two single-shaft 480MW CCGT modules at Thorpe Marsh 400kV substation by 31/10/16.
- RWE Npower plc for three new nuclear units (Cumbria Coast (South)) each of CEC 1300MW and TEC 1200MW at a new Kirksanton 400kV substation, by 31/10/23, 31/10/24 and 31/10/25.
- British Energy Generation Ltd for new nuclear generation (Heysham 3) with a TEC of 1650MW and CEC of 1800MW at a new Heysham B 400kV substation by 31/10/22.
- Triton Knoll Offshore Wind Farm Ltd at a new 400kV Mumby substation, in three stages of 400MW by 31/10/18, 31/10/19 and 31/10/20.

The following completion dates have been advanced:

- Fasnakyle Hydro: 01/10/10.
- Glendoe Hydro Stage 2: 01/10/10.
- A'Chruach wind farm: 31/10/13.
- Drummuir wind farm: 31/10/11.
- Novar 2 wind farm: 15/10/11.
- Rosehall wind farm: 31/10/11 and the TEC has been reduced to 25MW

Other changes:

- Berry Burn wind farm has been granted consents.
- Tullo wind farm have increased their TEC to 17MW and deferred their completion date to 31/07/10.
- The TEC of Auchencorth wind Farm has been reduced 33MW, and the completion date has been deferred April 2012.
- Tees Renewable Energy plant has been granted consents.
- The TEC of Portbury has increased to 165MW with a deferred completion date of 02/01/13.
- Partington Stage 1 has deferred its completion date to 01/04/12.
- Stage 3 of Staythorpe C is to be split into a stage 3 of 425MW to connect by 31/10/09 and a stage 4 to connect by 01/04/10.
- Powerfuel have delayed the Hatfield completion to 31/07/13.
- The Hinkley Point C new nuclear connection will now connect in two stages: 1670MW by 31/09/17, and a further 1670MW by 31/09/18.
- The Hinkley Point West new nuclear connection has been withdrawn.

Further details are given in the table below. Data in bold italics indicates differences between this update and the previously published contracted position.

The Transmission Networks Quarterly Connections Update provides a complete list of all planned transmission contracted generation projects with capacities and connection dates, and can be viewed on the following web page:

http://www.nationalgrid.com/uk/Electricity/GettingConnected/gb_agreements/

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Licensee	Agreement Type
	Previous	New	Previous	New						
Fasnakyle Compensation Hydro (unit 4)	7.5	7.5	2014	2010	Yes	Yes	SSE Generation Ltd	Hydro	SHETL	BEGA
Glendoe Hydro Stage 2	48.5	48.5	2013	2010	Yes	Yes	SSE Generation Ltd	Hydro	SHETL	BCA
A'Chruach	49.9	49.9	-	2013	No	No	Novera Energy plc	Onshore Wind	SHETL	BCA
Berry Burn	82.5	82.5	2013	2013	Yes	No	Catamount Energy Ltd	Onshore Wind	SHETL	BELLA
Drummuir Wind, Keith	48.3	48.3	-	2011	No	No	RES UK & Ireland Ltd	Onshore Wind	SHETL	BCA
Novar 2 Wind Farm, Alness	32	32	2014	2011	Yes	No	Novar 2 Wind Farm Ltd	Onshore Wind	SHETL	BELLA
Rosehall, Keith	28.5	25	-	2011	No	No	E.ON UK Renewables Ltd	Onshore Wind	SHETL	BCA
Strath Rusdale wind farm, Alness	-	30	-	Post 2018	No	No	RockbySea Ltd	Onshore Wind	SHETL	BEGA
Tullo Wind Farm, Laurencekirk	13.5	17	2009	2010	Yes	Yes	Tullo Wind Farm Ltd	Onshore Wind	SHETL	BELLA
Sound of Islay	-	10	-	Post 2018	No	No	ScottishPower Renewables (UK) Ltd	Tidal Array	SHETL	BEGA
Hunterston 2	-	1600	-	Post 2018	No	No	Ayrshire Power Ltd	Clean Coal	SPT	BCA
Auchencorth	45	33	2010	2012	No	No	E.ON UK Renewables Developments Ltd	Onshore Wind	SPT	BCA

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Licensee	Agreement Type
	Previous	New	Previous	New						
Portbury	150	165	2012	2013	Yes	No	E.ON UK Climate & Renewables UK Operations Ltd	Biomass	NGET	BCA
Tees Renewable Energy Plant	299	299	2012	2012	Yes	No	MGT Power Limited	Biomass	NGET	BCA
Partington Stage 1	425	425	2011	2012	Yes	No	Carrington Power Ltd	CCGT	NGET	BCA
Staythorpe C Stage 3	850	425	2009	2009	Yes	Yes	RWE Npower plc	CCGT	NGET	BCA
Staythorpe C Stage 4	-	425	-	2010	Yes	Yes	RWE Npower plc	CCGT	NGET	BCA
Thorpe Marsh	-	960	-	2016	No	No	Thorpe Marsh Power Ltd	CCGT	NGET	BCA
Hatfield	800	800	2011	2013	Yes	No	Powerfuel plc	IGCC with CCS	NGET	BCA
Cumbria Coast (South) Stage 1	-	1200	-	2023	No	No	RWE Npower plc	Nuclear APR	NGET	BCA
Cumbria Coast (South) Stage 2	-	1200	-	2024	No	No	RWE Npower plc	Nuclear APR	NGET	BCA
Cumbria Coast (South) Stage 3	-	1200	-	2025	No	No	RWE Npower plc	Nuclear APR	NGET	BCA
Heysham 3	-	1650	-	2022	No	No	British Energy Generation Ltd	Nuclear EPR	NGET	BCA
Hinkley Point C	3300	-	2016	-	No	No	British Energy Generation Ltd	Nuclear EPR	NGET	BCA

THE TRANSMISSION SYSTEM

This section reports on significant changes to the planned transmission system, or revisions to construction programmes. Table 6.2 and Table 6.5 of the main statement give further details of contracted transmission schemes.

Year	Site	Works
2012	Barking	Install a new 275/33kV transformer (SGT8) by 31/01/12
2018	Mumby	Construct a new 400kV GIS substation at Mumby. Construct a new L13, 55km, 400kV double-circuit overhead line route from Mumby to Bicker Fen.
2018	Eaton Socon	Convert the teed arrangement of the Cottam 2/Wymondley Main 2 400kV overhead line to a turn-in. Convert the Cottam 1/SGT1 400kV teed arrangement to a turn-in.
2018	Bicker Fen	Construct a new 39km 400kV double-circuit overhead line from Bicker Fen and connect via a double T-off arrangement to the existing Cottam-Eaton Socon overhead line route

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