

2007 GB Seven Year Statement Update

January 2008

INTRODUCTION

We are pleased to present the January 2008 Update to our 2007 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 fourth and final Update of our 2007 GB Seven Year Statement and reports on changes notified to us up to 1st January 2008.

1. 'GB SYS BACKGROUND' SUMMARY

	2007 GB SYS	May Update	August Update	October Update	January Update
Total Generation Capacity by 2013/14 (GW)	101.9	104.0	105.4	104.9	104.0
Total CCGT Capacity by 2013/14 (GW)	38.5	39.5	38.8	38.4	38.4
Unavailable Generating Units by 2013/14 (GW)	2.9	2.9	2.9	2.9	2.9
Plant Margin – 2007/08 (%)	27.4	26.9	26.5	25.1	25.0
Plant Margin – 2013/14 (%)	52.6	55.7	57.8	57.1	55.8

Notes:

1. Generation capacity values are based on station TEC values where possible.
2. Unavailable generating units are given in Table 3.11 of the GB SYS.

2. 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.

2.1 Transmission Access

Access to the GB Transmission System is provided through arrangements with NGET, acting as GBSO, under the Connection and Use of System Code (CUSC). The CUSC has applied across the whole of Great Britain since BETTA "go-live" (1 April 2005). Prior to BETTA "go-live", the CUSC applied in England and Wales but different arrangements applied in Scotland. The pre BETTA go-live generation offers and agreements between relevant TOs and Users were converted into GB Offers and Bilateral Agreements under Standard Condition C18 of the Electricity Transmission Licence. The requirements of C18 have now been met and all the relevant Bilateral Agreements are now in place.

2.2 Planned Transmission Contracted Generation up to 2013/14

This section gives details of future generation projects relevant to this update. The Changes reported are changes relative to the previously reported contracted position, and include:

1. The Pembroke 1 CCGT has revised completion dates:
 - Stage 1 connects on 01/04/09.
 - Stage 2 connects on 31/10/09.
2. Sutton Bridge B CCGT has moved back to 2013/14.
3. West Burton B CCGT has been granted Section 36 and Section 14 Consent, and is now under construction.
4. Glendoe Hydro has a revised connection date of 31/10/12.
5. The following wind generation projects have revised connection dates:
 - Ardinglas: 01/06/08
 - Aultmore: 31/10/13
 - Ballindalloch Muir: 31/10/09

- Berry Burn: 31/10/12
 - Calliachar: 31/10/13
 - Camster: 31/10/13
 - Carraig Gheal: 22/06/10, with a TEC of 60MW
 - Clashindarroch: 31/10/13
 - Dunbeath: 31/10/13
 - Fairwind: 31/10/13
 - Kingsburn: 31/10/09
 - Montreathmont: 31/10/13
 - Pairc (South Lochs): 31/10/13
 - Strathy North & South: 31/10/12
 - Tomatin: 31/10/12
 - Afton: 2012/13
 - Aikengall: 2008/09
 - Barmoor: 2010/11
 - Drone Hill: 2010/11
 - Ewe Hill: 2011/12
 - Harrows Law: 2011/12
 - Kyle: 2011/12
 - Neilston: 30/07/12
 - Newfield: 2011/12
 - Pencloe: 2012/13
 - Ulzieside: 2012/13
 - Waterhead Moor: 2011/12
 - Whiteside Hill: 2012/13
 - Windy Standard 2: 2012/13
6. Kilbraur Wind Farm (formerly Strath Brora) has signed a staged offer:
 - 47.5MW connecting by 16/11/07, followed by
 - A total of 67MW connecting by 16/11/09
 7. Millenium Wind Farm has signed a staged offer:
 - 40MW connecting by 07/12/07, followed by
 - A total of 50MW connecting by 31/05/08, and
 - A total of 65MW connecting by 07/12/09
 8. Greenock Wind Farm has a TEC of 0MW, with no fixed connection date.
 9. Rothes Bioplant has a revised connection date of 2010/11.
 10. Fasnakyle Hydro extension has a revised connection date beyond 2013/14.
 11. The following wind generation projects have revised connection dates beyond 2013/14:
 - Baillie & Bardnaheigh
 - Eishken Estate
 - North Nesting
 - Novar 2
 - Stroupster
 12. The following wind generation projects have been with drawn:
 - Largie, South Kintyre
 - Snowgoat Glen, Dunning, Perthshire
 - Dungavel
 - Greenknowes

Further details are given in the table below.

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
	Previous	New	Previous	New							
Pembroke 1 Stage 1	800	800	2008	2009	No	No	RWE Npower plc	CCGT	Pembroke 400kV	15	BCA
Pembroke 1 Stage 2	1200	1200	2008	2009	No	No	RWE Npower plc	CCGT	Pembroke 400kV	15	BCA
Sutton Bridge B	1305	1305	2011	2013	No	No	West Burton Ltd	CCGT	Walpole 400kV	13	BCA
West Burton B Stage 1	435	435	2009	2009	Yes	Yes	West Burton Ltd	CCGT	West Burton 400kV	13	BCA
West Burton B Stage 2	435	435	2010	2010	Yes	Yes	West Burton Ltd	CCGT	West Burton 400kV	13	BCA
West Burton B Stage 3	435	435	2010	2010	Yes	Yes	West Burton Ltd	CCGT	West Burton 400kV	13	BCA
Glendoe	100	100	2011	2012	Yes	Yes	SSE Generation Ltd	Hydro	Glendoe 132/33kV	3	BCA
Ardkinglas	19.3	19.3	2007	2008	Yes	Yes	AMEC Project Investments Ltd	Wind	Clachan 132kV	5	BELLA
Aultmore	60	60	2011	2013	No	No	AMEC Project Investments Ltd	Wind	Aultmore Wind Farm 132kV	1	BCA
Ballindalloch Muir	20.8	20.8	2008	2009	No	No	Ballindalloch Muir Wind Farm Ltd	Wind	Ballindalloch Muir 132kV	5	BELLA
Berry Burn	82.5	82.5	2011	2012	No	No	Catamount Energy Ltd	Wind	Berry Burn 33kV	1	BELLA
Calliachar	62	62	2012	2013	No	No	I & H Brown Ltd	Wind	Errochty	4	BCA

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
	Previous	New	Previous	New							
Camster	62.5	62.5	2012	2013	No	No	Powergen Renewables Ltd	Wind	Mybster 33kV	1	BELLA
Carraig Gheal	75	60	2008	2010	No	No	Greenpower (Carraig Gheal) Ltd	Wind	Nant	5	BCA
Clashindarroch	112.7	112.7	2011	2013	No	No	AMEC Project Investments Ltd	Wind	Clashindarroch 33kV	1	BEGA
Dunbeath	55	55	2011	2013	No	No	Dunbeath Wind Energy Ltd	Wind	Dunbeath 33kV	1	BELLA
Fairwind	126	126	2012	2013	No	No	Fairwind (Orkney) Ltd	Wind	Kirkwall / St. Mary 33kV	1	BEGA
Kilbraur Wind Farm Stage 1	67	47.5	2007	2007	Yes	Yes	Kilbraur Wind Energy Ltd	Wind	Strath Brora 275kV	1	BCA
Kilbraur Wind Farm Stage 2	-	19.5	-	2009	Yes	Yes	Kilbraur Wind Energy Ltd	Wind	Strath Brora 275kV	1	BCA
Kingsburn Wind Farm	20	20	2008	2009	No	No	SHEPD Ltd	Wind	Kingsburn 132kV	6	BELLA
Millenium Stage 1	65	40	2007	2007	Yes	Yes	Millenium Wind Energy Ltd	Wind	Ceannacroc	3	BCA
Millenium Stage 2	-	10	-	2008	Yes	Yes	Millenium Wind Energy Ltd	Wind	Ceannacroc	3	BCA
Millenium Stage 3	-	15	-	2009	Yes	Yes	Millenium Wind Energy Ltd	Wind	Ceannacroc	3	BCA
Montreathmont Moor	40	40	2012	2013	No	No	SHEPD Ltd	Wind	Bridge of Dun BSP 33kV	1	BELLA

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
	Previous	New	Previous	New							
Pairc (South Lochs)	250	250	2012	2013	No	No	SSE Generation Ltd	Wind	Stornoway 132kV	3	BCA
Strathy North & South	226	226	2011	2012	No	No	SSE Generation Ltd	Wind	Strathy North / South	1	BCA
Tomatin	30	30	2011	2012	No	No	Eurus Energy UK Ltd	Wind	Boat of Garten 33kV	1	BELLA
Afton	77	77	2010	2012	No	No	E.ON UK Renewables Developments Ltd	Wind	AFTN10	7	BCA
Aikengall	48	48	2009	2008	No	No	Community Windpower Ltd	Wind	AIKN10	7	BELLA
Barmoor	30	30	2008	2010	No	No	Catamount Energy Limited	Wind	BERW1Q/ BERW1R	7	BELLA
Drone Hill	38	38	2008	2010	No	No	PM Renewables Ltd	Wind	BERW1Q/ BERW1R	7	BELLA
Ewe Hill	66	66	2009	2011	No	No	CRE Energy Ltd	Wind	EWEH10	7	BCA
Greenock	55	0	2009	-	No	No	Greenock Wind Farm (Scotland) Ltd	Wind	Devol Moor 132kV	5	BELLA
Harrows Law	140	140	2009	2011	No	No	SSE Generation Ltd	Wind	HALA10	7	BCA
Kyle	300	300	2010	2011	No	No	AMEC Project Investments Ltd	Wind	KYLS10	7	BCA
Neilston	100	100	2010	2012	No	No	Gamesa Energy UK Ltd	Wind	Neilston 132Kv	7	BCA

Station Name	Capacity (MW)		Completion Date		Consents Status	Under Construction Status	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
	Previous	New	Previous	New							
Newfield	60	60	2009	2011	No	No	Wind Energy (Newfield) Limited	Wind	NEWF10	7	BCA
Pencloe	63	63	2009	2012	No	No	NBW Wind Energy Ltd	Wind	PENC10	7	BCA
Ulzieside	69	69	2010	2012	No	No	NBW Wind Energy Ltd	Wind	ULZI10	7	BCA
Waterhead Moor	120	120	2009	2011	No	No	SSE Generation Ltd	Wind	WAMR10	5	BCA
Whiteside Hill	27	27	2010	2012	Yes	No	Airtricity Developments (Scotland) Ltd	Wind	WTSH10	7	BCA
Windy Standard 2	60	60	2010	2012	Yes	No	Brockloch Rg Windfarm Ltd	Wind	WIST10	7	BCA
Rothes Bioplant	52	52	2008	2010	No	No	Scottish Biopower Ltd	Biomass	BLHI20	6	BEGA
Fasnakyle Hydro Extension	7.5	-	2013	-	Yes	Yes	SSE Generation Ltd	Hydro	Fasnakyle 132kV	3	BEGA
Baillie & Bardnaheigh	57	-	2013	-	No	No	Baillie Wind Farm Ltd	Wind	Dounreay 132/33kV	1	BEGA
Eishken Estate	300	-	2013	-	No	No	Beinn Mhor Power Ltd	Wind	Ardmore	3	BCA
North Nesting	250	-	2013	-	No	No	SSE Generation Ltd	Wind	Caithness 132kV	1	BCA
Novar 2	32	-	2013	-	Yes	No	Novar 2 Wind Farm Ltd	Wind	Alness 132/33kV	1	BELLA

2.3 Existing Transmission Contracted Generation

The following table lists existing stations that are relevant to this update. Changes to the contracted position include:

1. The company name for Deeside CCGT has changed from Deeside Power Development Company Ltd to Deeside Power Ltd.

The following table gives further details.

Station Name	Capacity (MW)	Effective Date	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
Deeside	495	01/12/07	<i>Deeside Power Ltd</i>	CCGT	Deeside 400kV	13	BCA
TOTAL	495	MW	CHANGE	0	MW		

2.4 Transmission Contracted Generation beyond 2013/14

The following table lists generation projects with commissioning dates beyond 2013/14. Changes to the contracted position include:

1. Bradwell B, Dungeness C, Hinkley Point C and Sizewell C are new signed contracts for new nuclear generation.
2. Fasnakyle Hydro extension has a revised connection date beyond 2013/14.
3. Blacklaw Extension is a new signed contract for wind energy.
4. The following wind generation projects have revised connection dates beyond 2013/14:
 - a. Baillie & Bardnaheigh
 - b. Eishken Estate
 - c. North Nesting
 - d. Novar 2
 - e. Stroupster
5. The following wind generation projects have been withdrawn:
 - a. Hill of Garvock, Laurencekirk (250MW)
 - b. Kildrummy Wind Farm (14.3MW)
 - c. Lairg 30MW Wind Farm (30MW)
 - d. Mellock Wind Farm (Ochils) Milnathort (37.5MW)
 - e. Port Clair Wind Farm, Fort Augustus (35MW)

The following table gives further details.

Station Name	Capacity (MW)	Company	Plant Type	Connection Point
Bradwell B	1650	British Energy Generation Ltd	Nuclear	Bradwell 400kV
Dungeness C	1650	British Energy Generation Ltd	Nuclear	Lydd 400kV
Hinkley Point C	3300	British Energy Generation Ltd	Nuclear	Hinkley Point 400kV
Sizewell C	3300	British Energy Generation Ltd	Nuclear	Sizewell North 400kV
Fasnakyle Hydro Extension	7.5	SSE Generation Ltd	Hydro	Fasnakyle 132kV
Blacklaw Extension	69	CRE Energy Ltd	Wind	TBC
Baillie & Bardnaheigh	57	Baillie Wind Farm Ltd	Wind	Dounreay 132/33kV
Eishken Estate	300	Beinn Mhor Power Ltd	Wind	Ardmore
North Nesting	250	SSE Generation Ltd	Wind	Caithness 132kV
Novar 2	32	Novar 2 Wind Farm Ltd	Wind	Alness 132/33kV
Stroupster	31.5	Stroupster Wind Farm Ltd	Wind	Thurso
Hill of Garvock	-	-	-	-
Kildrummy	-	-	-	-
Lairg 30MW	-	-	-	-
Mellock	-	-	-	-
Port Clair	-	-	-	-
TOTAL	10647	MW		

3. DEMAND, CAPACITY TOTALS AND PLANT MARGINS

3.1 Generation Capacities

This table gives information on capacity totals for all directly-connected and Large Power Stations, and include the capacity and background changes reported in Section 2. The winter peak demands are customer-based forecasts in MW and are used to calculate plant margins in section 3.2. Capacity values are based on station TEC values where possible.

Generation Background	Total Capacity (MW)						
	07/08	08/09	09/10	10/11	11/12	12/13	13/14
GB SYS background (SYS)	76867	79367	87764	92541	99101	101254	104044
Consents (C)	76867	79220	82771	85479	85916	86103	86103
Existing or Under Construction (E,UC)	76867	79080	81753	84248	84678	84778	84778
Winter Peak Demand	61500	62600	63600	64600	65400	66200	66800

Notes:

1. The figures are based on the assumed year of commissioning or decommissioning.
2. The SYS background includes all planned generation with or without Section 36 and/or Section 14 consent.
3. The Consents background includes all planned generation that has both Section 36 and Section 14 consent.
4. The Existing or Under Construction background includes all generation projects currently under construction and all planned closures of generation.
5. The capacity totals above do not include the Moyle Interconnector importing TEC value (80MW), as the interconnector is assumed to be exporting to Northern Ireland at the time of winter peak.
6. The winter peak demands (customer-based forecast) are used in section 3.2 to calculate plant margins for each of the above backgrounds; these demands exclude station demand, but include the export to Northern Ireland (300MW).
7. Plant contracted for 2007/08 and under construction includes the following wind farms: Dalswinton, Minsca, Whitelee, Ben Aketil and Ben Aketil (Add. Cap.), Drumderg, Eredine, Kilbraur, Millennium and Tullo.
8. Projects assumed to be under construction in 2007/08 (for connection beyond 2007/08) include Langage, Marchwood, Staythorpe, Immingham Stage 2, Netherlands Interconnector, Grain Stage 1 & Stage 2, Severn Power Stage 1 & Stage 2, West Burton B, Ardkinglas Wind Farm, Glendoe Hydro and Fasnakyle Hydro Extension.

3.2 Plant Margins

The following projected margins are based on the capacity totals for the three generation backgrounds and the customer-based demand forecasts given in section 3.1 above.

Generation Background	Plant Margin (%)						
	07/08	08/09	09/10	10/11	11/12	12/13	13/14
GB SYS background (SYS)	25.0	26.8	38.0	43.3	51.5	53.0	55.8
Consents (C)	25.0	26.5	30.1	32.3	31.4	30.1	28.9
Existing or Under Construction (E,UC)	25.0	26.3	28.5	30.4	29.5	28.1	26.9

4. TRANSMISSION SYSTEM

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

Overhead Line Works (by 2012)

The Beaulieu-Denny overhead line construction scheme was reported in the main 2007 GB SYS with a planned completion date in 2011. The completion date for this project is now planned for 31st October 2012. Details of the scheme can be found in the 2007 GB SYS.

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