

2007 GB Seven Year Statement Update

October 2007

INTRODUCTION

We are pleased to present the October 2007 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 third Update of our 2007 GB Seven Year Statement and reports on changes notified to us up to 31st October 2007.

1. 'GB SYS BACKGROUND' SUMMARY

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

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 New Transmission Contracted Generation

The following projects have new contracts that have been signed recently, and were not previously in the SYS background.

Station Name	Capacity (MW)	Completion Date	Company	Plant Type	Connection Point	Tariff Zone	Consents	Type of Agreement
East-West Interconnector Project	500	31/10/11	EirGrid plc	Interconnector	Deeside	9	No	BCA
Thanet Offshore Windfarm	300	31/10/09	Thanet Offshore Wind Ltd	Offshore Wind	Canterbury North	17	Yes	BEGA
TOTAL	800	MW						

2.3 Planned Transmission Contracted Generation

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 completion date for Drakelow CCGT has moved back to 31/08/09. This project has been granted Section 36 Consent; Section 14 Consent has been applied for.
2. The completion date for Langage Stage 1 CCGT has moved back to 31/12/08, with a TEC increase from 850MW to 905MW. This project will now be referred to as "Langage".
3. Langage Stage 2 CCGT has been withdrawn.
4. Severn Power CCGT has been granted Section 36 and Section 14 consents, and is now under construction.
5. The completion date for Sutton Bridge B CCGT has moved back to 31/10/11.
6. The following offshore windfarms have been withdrawn: Walney, West of Duddon Sands.
7. The following windfarms have been granted Section 36 Consent: Dun Law Extension, Harestanes, Longpark, Novar 2, Toddleburn, Tormywheel, Whiteside Hill, and Windy Standard 2.
8. The completion date for Harestanes wind farm has moved back to 31/03/10.
9. The following windfarms have been refused Section 36 Consent: Calliachar, Clashindarroch.
10. West Burton CCGT has been granted Section 36 Consent.

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							
Calliachar	62.1	62.1	2012	2012	Refused	No	I & H Brown Ltd	Wind	Calliachar	4	BCA
Clashindarroch	112.7	112.7	2011	2011	Refused	No	AMEC Project Investments Ltd	Wind	Clashindarroch	1	BEGA
Drakelow	1230	1230	2008	2009	No	No	E.ON UK plc	CCGT	Drakelow 400kV	14	BCA
Dun Law Extension	29.75	29.75	2009	2009	Yes	No	CRE Energy Ltd	Wind	Dunlaw Extension	7	BCA
Grain Stage 1	860	860	2010	2010	Yes	Yes	E.ON UK plc	CCGT	Grain 400kV	17	BCA
Grain Stage 2	430	430	2011	2011	Yes	Yes	E.ON UK plc	CCGT	Grain 400kV	17	BCA
Harestanes	213	213	2008	2010	Yes	No	CRE Energy Ltd	Wind	Harestanes	7	BCA
Langage	850	905	2007	2008	Yes	Yes	Centrica Langage Ltd	CCGT	Langage 400kV	20	BCA
Langage Stage 2	400	-	2010	-	-	-	-	-	-	-	-
Longpark	38	38	2009	2009	Yes	No	Wind Prospect Ltd	Wind	Longpark 132kV	7	BCA
Novar 2	32	32	2013	2013	Yes	No	Novar 2 Wind Farm Ltd	Wind	Aness 132/33kV	1	BELLA
Severn Power Stage 1	425	425	2009	2009	Yes	Yes	Severn Power Ltd	CCGT	Uskmouth 275kV	15	BCA

2.4 Existing Transmission Contracted Generation

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

1. Oldbury power station is in tariff zone 15 (previously shown in zone 14)

The following table gives further details.

Station Name	Capacity (MW)	Effective Date	Company	Plant Type	Connection Point	Tariff Zone	Agreement Type
Oldbury	470.4	01/04/04	Nuclear Magnox Ltd	Nuclear Magnox	OLDS10	15	BCA
TOTAL	470.4	MW	CHANGE	0	MW		

2.5 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. Laudale wind farm (75MW) has been withdrawn.
2. Little Law wind farm (42MW) has been withdrawn.
3. Mid Hill wind farm (75MW) has been withdrawn.

The following table gives further details.

Station Name	Capacity (MW)	Company	Plant Type	Connection Point
Laudale	-	-	-	-
Little Law	-	-	-	-
Mid Hill Windfarm, Ousdale, Caithness	-	-	-	-
TOTAL	0	MW		

2.6 Transmission Entry Capacity Data

The table below gives the contracted generation TEC values available at 15/12/2008 and hence applicable for winter peak 2008. As stated in the Use of System Charging Methodology, these values will be used to derive the 2008/09 TNUoS tariffs. Generation projects for which waiver letters have been received have been excluded from the table.

Licensee	Station	Owner	TEC	Station Capacity	Embedded / Directly Connected	DCLF node
NGET	Aberthaw	RWE Npower plc	1692		Directly Connected	ABTH20
NGET	Alcan Lynemouth	Alcan Aluminium UK Ltd	0	420	Embedded	BLYT20
NGET	Baglan Bay	Baglan Generating Ltd & Baglan Operations Ltd	552		Directly Connected	BAGB20
NGET	Barking	Barking Power Ltd	1000		Directly Connected	BARK20_LPN
NGET	Barry	Centrica Barry Ltd	245		Embedded	ABTH20,CARE20
NGET	Bradwell	Magnox Electric Ltd	0		Directly Connected	RAYL40
NGET	Connahs Quay	E.ON UK plc	1380		Directly Connected	DEES40
NGET	Corby	Corby Power Ltd	401		Embedded	GREN40_EME
NGET	Coryton	Coryton Energy Company Ltd	800		Directly Connected	COSO40
NGET	Cottam	EDF Energy (Cottam Power) Ltd	2000		Directly Connected	COTT40
NGET	Cottam Development Centre	E.ON UK plc	395		Directly Connected	COTT40
NGET	Cowes	RWE Npower plc	145		Embedded	FAWL40
NGET	Damhead Creek	Scottish Power (DCL) Ltd	805		Directly Connected	KINO40
NGET	Deeside	Deeside Power Development Co Ltd	495		Directly Connected	DEES40
NGET	Derwent	Derwent Cogeneration Ltd	228		Embedded	WILE20
NGET	Didcot A	RWE Npower plc	2109		Directly Connected	DIDC40
NGET	Didcot A GTs	RWE Npower plc	100		Directly Connected	COWL40
NGET	Didcot B	RWE Npower plc	1500		Directly Connected	DIDC40
NGET	Dinorwig	First Hydro Company	1644		Directly Connected	DINO40
NGET	Drax	Drax Power Ltd	3906		Directly Connected	DRAX40
NGET	Dungeness A	Nuclear Decommissioning Authority	0		Directly Connected	DUNG20
NGET	Dungeness B	British Energy Generation (UK) Ltd	1081		Directly Connected	DUNG40
NGET	Eggborough	Eggborough Power Limited	1940		Directly Connected	EGGB40
NGET	Enfield	E.ON UK plc	408		Directly Connected	BRIM2A_LPN,BRIM2B_LPN,BRIM2C_LPN,BRIM2D
NGET	Fawley	RWE Npower plc	1036		Directly Connected	FAWL40
NGET	Fawley CHP	Npower Cogen Trading Ltd	158		Embedded	FAWL40
NGET	Ferrybridge	Keadby Generation Ltd	1981		Directly Connected	FERR20_YED
NGET	Ffestiniog	First Hydro Company	360		Directly Connected	FFES20
NGET	Fiddlers Ferry	Keadby Generation Ltd	1987		Directly Connected	FIDF20
NGET	French Interconnector	NG Interconnectors Ltd	1988		Directly Connected	SELL40
NGET	Glandford Brigg	Regional Power Generators Ltd	268		Embedded	KEAD40
NGET	Grain	E.ON UK plc	1355		Directly Connected	GRAI40
NGET	Great Yarmouth	RWE Npower plc	420		Embedded	NORW40
NGET	Hartlepool	British Energy Generation (UK) Ltd	1207		Directly Connected	HATL20
NGET	Heysham	British Energy Generation (UK) Ltd	2406		Directly Connected	HEYS40
NGET	Hinkley Point B	British Energy Generation (UK) Ltd	1261		Directly Connected	HINP40
NGET	Immingham	Immingham CHP LLP	1218		Directly Connected	HUMR40

Licensee	Station	Owner	TEC	Station Capacity	Embedded / Directly Connected	DCLF node
NGET	Indian Queens	AES Indian Queens Power Ltd	140		Directly Connected	INDQ40
NGET	Ironbridge	E.ON UK plc	964		Directly Connected	IRON40
NGET	Keadby	Keadby Generation Ltd	735		Directly Connected	KEAD40
NGET	Killingholme 1	E.ON UK plc	900		Directly Connected	KILL40
NGET	Killingholme 2	Centrica Generation Ltd	665		Directly Connected	KILL40
NGET	Kings Lynn	Centrica KL Ltd	340		Embedded	WALP40_EME
NGET	Kingsnorth	E.ON UK plc	1966		Directly Connected	KINO40
NGET	Little Barford	RWE Npower plc	665		Directly Connected	EASO40
NGET	Littlebrook D	RWE Npower plc	1105		Directly Connected	LITT40
NGET	Marchwood	Marchwood Power Limited	900		Directly Connected	MAWO40
NGET	Medway	Medway Power Limited	700		Directly Connected	GRAI40
NGET	Oldbury-on-Severn	Nuclear Decommissioning Authority	470.4		Directly Connected	OLDS10
NGET	Peterborough	Centrica PB Ltd	405		Embedded	WALP40_EME
NGET	Ratcliffe-on-Soar	E.ON UK plc	2021		Directly Connected	RATS40
NGET	Rocksavage	Rocksavage Power Company Ltd	748		Directly Connected	ROCK40
NGET	Roosecote	Centrica RPS Ltd	229		Embedded	HUTT40
NGET	Rugeley B	Rugeley Power Ltd	1018		Directly Connected	RUGE40
NGET	Rye House	ScottishPower Generation Ltd	715		Directly Connected	RYEH40
NGET	Saltend	Saltend Cogeneration Company Ltd	1100		Directly Connected	SAES20
NGET	Seabank	Seabank Power Ltd	1234		Directly Connected	SEAB40
NGET	Sellafield	Fellside Heat & Power Ltd	155		Embedded	HUTT40
NGET	Shoreham	ScottishPower (SCPL) Ltd	420		Embedded	BOLN40
NGET	Shotton	Gaz de France Marketing Ltd	210		Embedded	DEES40
NGET	Sizewell A	Nuclear Decommissioning Authority	0		Directly Connected	SIZE40
NGET	Sizewell B	British Energy Generation Limited	1200		Directly Connected	SIZE40
NGET	South Humber Bank	Humber Power Ltd	1285		Directly Connected	SHBA40
NGET	Spalding	Spalding Energy Company Ltd	880		Directly Connected	SPLN40
NGET	Sutton Bridge	EDF Energy (Sutton Bridge Power)	800		Directly Connected	WALP40_EME
NGET	Taylor Lane	E.ON UK plc	144		Embedded	WISD20_LPN
NGET	Teesside	Teesside Power Ltd	1875		Directly Connected	GRST20
NGET	Tilbury B	RWE Npower plc	1131		Directly Connected	TILB20
NGET	Uskmouth	Uskmouth Power Company	363		Directly Connected	USKM20
NGET	West Burton	West Burton Ltd	1987		Directly Connected	WBUR40
NGET	Wilton	Sembcorp Utilities	50		Directly Connected	GRST20
NGET	Wylfa	Nuclear Decommissioning Authority	980		Directly Connected	WYLF40
SHETL	Aigas	SSE Generation Limited	20		Directly Connected	AIGA1Q
SHETL	Ardkinglas, Clachan (SRO)	Scottish Hydro-Electric Power Distribution Plc	19		Embedded	ARDK10
SHETL	Ark Hill Wind Farm, Glamis	Renewable Energy Systems UK Ltd	BELLA	12	Embedded	COUA10

Licensee	Station	Owner	TEC	Station Capacity	Embedded / Directly Connected	DCLF node
	(SRO)					
SHETL	Baldovie Waste to Energy Plant	Dundee Energy Recycling Ltd	BELLA	8.3	Embedded	MILC10
SHETL	Beinn An Turic Wind	CRE Energy Ltd	BELLA	30	Embedded	CAAD1Q,CAAD1R
SHETL	Beinn Ghlas Wind	Beaufort Wind Limited	BELLA	8.66	Embedded	TAYN1Q,TAYN1R
SHETL	Beinn Tharsuinn	CRE Energy Ltd	29		Embedded	ALNE1Q,ALNE1R
SHETL	Ben Aketil Wind	Ben Aketil Wind Farm Ltd	BELLA	28	Embedded	DUGR1Q
SHETL	Bowmore - Islay	Scottish Hydro-Electric Power Distribution Ltd	BELLA	6.2	Embedded	PORA1Q,PORA1R
SHETL	Boyndie Wind	Boyndie Wind Energy Limited	BELLA	21	Embedded	KEIT10,MACD1Q
SHETL	Braes of Doune	Braes of Doune Wind Farm (Scotland) Ltd	74		Embedded	BRAC1Q,BRAC1R
SHETL	Burgar Hill (NWP) Orkney	RWE Npower plc	BELLA	6	Embedded	THSO1Q,THSO1R
SHETL	Cairn Uish Wind, Rothes	Rothes Wind Limited	BELLA	50.6	Embedded	DAAS20
SHETL	Cashlie	SSE Generation Limited	11.12		Embedded	KIIN10
SHETL	Causeymire	Causeymire Windfarm Limited	BELLA	54	Embedded	MYBS1Q,MYBS1R
SHETL	Ceannacroc	SSE Generation Limited	20		Embedded	CEAN1Q
SHETL	Clachan	SSE Generation Limited	40		Embedded	CLAC1Q
SHETL	Clunie	SSE Generation Limited	61.2		Directly Connected	CLUN1S,CLUN1T
SHETL	Culligran	SSE Generation Limited	19.1		Directly Connected	CULL1Q
SHETL	Deanie	SSE Generation Limited	38		Directly Connected	DEAN1Q
SHETL	Deucheran Hill Wind	E.ON UK Renewables Ltd	BELLA	15	Embedded	CAAD1Q,CAAD1R
SHETL	Drumderg Wind Farm, Dalrulzion	SSE Generation Limited	BELLA	32	Embedded	COUA10
SHETL	Dummuies Windfarm, Inch	Dummuies Windfarm Huntly Limited	BELLA	10.4	Embedded	KEIT10
SHETL	Eredine Forest Wind (An Suidhe)	An Suidhe Wind Farm Ltd	30		Directly Connected	ERED10
SHETL	Errochty	SSE Generation Limited	75		Directly Connected	ERRO10
SHETL	Farr Windfarm	Farr Wind Farm Limited	92		Directly Connected	FAAR1Q,FAAR1R
SHETL	Fasnakyle G1 & G2	SSE Generation Limited	46		Directly Connected	FASN10
SHETL	Fasnakyle G3 & G4	SSE Generation Limited	23		Embedded	FASN10
SHETL	Finlarig	SSE Generation Limited	16.5		Directly Connected	FINL1Q
SHETL	Flotta Terminal	Talisman Energy (UK) Limited	BELLA	10	Embedded	THSO1Q,THSO1R
SHETL	Foyers	SSE Generation Limited	300		Directly Connected	FOYE20
SHETL	Glenmoriston	SSE Generation Limited	37		Directly Connected	GLEN1Q
SHETL	Glens of Foudland Wind (SRO)	Glens of Foudland Wind Farm Ltd	26		Embedded	KEIT10,KINT10
SHETL	Grudie Bridge	SSE Generation Limited	BELLA	21.7	Embedded	GRUB1Q,GRUB1R
SHETL	Houstry Wind, Dunbeath	Boulfruich Wind Farm Limited	BELLA	14	Embedded	DUBE1Q
SHETL	Inverawe	SSE Generation Limited	BELLA	25	Embedded	TAYN1Q,TAYN1R
SHETL	Invergarry	SSE Generation Limited	20		Directly Connected	INGA1Q

Licensee	Station	Owner	TEC	Station Capacity	Embedded / Directly Connected	DCLF node
SHETL	Inverurie Paper Mills	International Paper (UK) Ltd	BELLA	7.5	Embedded	KINT10
SHETL	Kilbraur Wind Farm	Strath Brora Wind Energy Limited	47		Directly Connected	STRB22
SHETL	Kilmorack	SSE Generation Limited	20		Directly Connected	KIOR1Q
SHETL	Kingsburn Wind farm, Fintry, Stirling	Kingsburn Wind Energy Ltd	BELLA	20	Embedded	STLE10
SHETL	Kinlochleven	Alcan Aluminium UK Limited	BELLA	30	Embedded	KILO10
SHETL	Kirkwall	Scottish Hydro-Electric Power Distribution Plc	BELLA	15.5	Embedded	THSO1Q,THSO1R
SHETL	Lerwick A	SSE Generation Limited	BELLA	28	Embedded	n/a
SHETL	Lerwick B	SSE Generation Limited	BELLA	37	Embedded	n/a
SHETL	Livishie	SSE Generation Limited	15		Embedded	GLEN1Q
SHETL	Loch Carman - South Uist	Scottish Hydro-Electric Power Distribution Plc	BELLA	11.8	Embedded	ARMO10
SHETL	Lochay	SSE Generation Limited	47		Directly Connected	LOCH10
SHETL	Luichart	SSE Generation Limited	34		Directly Connected	LUIC1Q,LUIC1R
SHETL	Marine Energy Test Centre	The European Marine Energy Centre Ltd.	BELLA	7	Embedded	THSO1Q,THSO1R
SHETL	Millennium Wind, Ceannacroc	Millennium Wind Energy Limited	50		Directly Connected	MILW1Q
SHETL	Mossford	SSE Generation Limited	18.66		Directly Connected	MOSS1Q,MOSS1R
SHETL	Nant	SSE Generation Limited	15		Directly Connected	LOCN1Q
SHETL	Novar	Beaufort Wind Limited	BELLA	18.5	Embedded	ALNE1Q,ALNE1R
SHETL	Orrin	SSE Generation Limited	18		Directly Connected	ORRI1Q,ORRI1R
SHETL	Paul's Hill Wind	Paul's Hill Wind Limited	BELLA	70	Embedded	GLFA10
SHETL	Peterhead	SSE Generation Limited	1524		Directly Connected	PEHE20
SHETL	Pitlochry	SSE Generation Limited	15		Embedded	CLUN1S,CLUN1T
SHETL	Quoich	SSE Generation Limited	18		Directly Connected	QUOI1Q
SHETL	Rannoch	SSE Generation Limited	BELLA	44	Embedded	RANN1Q,RANN1R
SHETL	Shin	SSE Generation Limited	BELLA	18.62	Embedded	SHIN10
SHETL	Sloy G1 & G4	SSE Generation Limited	72.5		Embedded	SLOY10
SHETL	Sloy G2 & G3	SSE Generation Limited	80		Directly Connected	SLOY10
SHETL	St Fillans	SSE Generation Limited	BELLA	16.8	Embedded	SFIL1Q
SHETL	Stoneywood Mills (Wiggins Teape Stoneywood)	Arjo Wiggins Fine Papers Limited	BELLA	12	Embedded	DYCE1Q,DYCE1R
SHETL	Stornoway (Battery Point)	Scottish Hydro-Electric Power Distribution Plc	BELLA	22.3	Embedded	ARMO10
SHETL	Taits Mills	Thomas Tait and Sons Ltd	BELLA	8	Embedded	KINT10
SHETL	Tangy Wind, Argyll	SSE Generation Limited	BELLA	19	Embedded	CAAD1Q,CAAD1R
SHETL	Torr Achilty	SSE Generation Limited	15		Embedded	BEAU10
SHETL	Tummel	SSE Generation Limited	BELLA	34	Embedded	TUMB1Q,TUMB1R
SPTL	Black Law	CRE Energy Ltd	134		Directly Connected	BLLA10
SPTL	Bowbeat	E.ON UK plc	BELLA	33	Embedded	KAIM20
SPTL	BP Grangemouth	Ineos Manufacturing Scotland Limited	120		Embedded	GRMO20

Licensee	Station	Owner	TEC	Station Capacity	Embedded / Directly Connected	DCLF node
SPTL	Chapelcross	Nuclear Decommissioning Authority	0		Directly Connected	CHAP10
SPTL	Cockenzie	ScottishPower Generation Ltd	1152		Directly Connected	COCK20
SPTL	Cruachan	ScottishPower Generation Ltd	440		Directly Connected	CRUA2Q,CRUA2R
SPTL	Crystal Rig	Crystal Rig Windfarm Limited	BELLA	62.5	Embedded	DUNB1Q,DUNB1R
SPTL	Dalswinton	Dalswinton Wind Farm (Scotland) Limited	30		Embedded	DUMF10
SPTL	Earlsburn	Earlsburn Wind Energy Limited	BELLA	35	Embedded	BONN10
SPTL	Fife	SSE Generation Limited	123		Directly Connected	FIFE10,FIFE1B
SPTL	Greenock Wind Farm	Greenock Wind Farm (Scotland) Limited	55		Embedded	DEVM10
SPTL	Hadyard Hill	SSE Generation Limited	130		Directly Connected	MAYB10
SPTL	Hunterston	British Energy Generation (UK) Ltd	1210		Directly Connected	HUER40
SPTL	Longannet	ScottishPower Generation Ltd	2304		Directly Connected	LOAN20
SPTL	Mark Hill Wind Farm	Mark Hill Wind Power Limited	99		Directly Connected	MAHI20
SPTL	Minsca	Minsca Wind Farm (Scotland) Limited	37.5		Embedded	CHAP10
SPTL	Moyle Interconnector	Moyle Interconnector Limited	80		Directly Connected	AUCH20
SPTL	Steven's Croft	E.ON UK plc	BELLA	45	Embedded	CHAP10
SPTL	Tongland	ScottishPower Generation Ltd	BELLA	33	Embedded	TONG10
SPTL	Tormywheel	PM Renewables Ltd	BELLA	0	Embedded	BAGA1Q,BAGA1R
SPTL	Torness	British Energy Generation (UK) Ltd	1200		Directly Connected	TORN40
SPTL	Whitelee	CRE Energy Ltd	294.4		Directly Connected	WHIL20

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)	76962	81705	88515	93809	100349	102236	104936
Consents (C)	76962	79286	82368	84293	84830	84830	84869
Existing or Under Construction (E,UC)	76962	79146	81350	82975	83505	83505	83512
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, Greenknowes, Minsca, Whitelee, Ardkinglas, Ben Aketil and Ben Aketil (Add. Cap.), Drumderg, Eredine, Millennium, Strath Brora 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, 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)	25.1	30.5	39.2	45.2	53.4	54.4	57.1
Consents (C)	25.1	26.7	29.5	30.5	29.7	28.1	27.0
Existing or Under Construction (E,UC)	25.1	26.4	27.9	28.4	27.7	26.1	25.0

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.

Kingsnorth (2009)

Install a 2750MVA Series Reactor at Kingsnorth 400kV substation. Install a new 400kV 2 switch bay Reactor tie at Kingsnorth, and install a new 2000MVA reactor.

Overhead Line Works (2009)

Carry out the following overhead line works:

- Re-conductor the L2 construction sections (approx. 6km) of the Kingsnorth-Northfleet East and Singlewell-Northfleet East 400kV overhead line circuits with GAP conductor.
- Assess the potential and if viable proceed to hot-wire the L6 construction sections (approx. 13km) of the Kingsnorth-Northfleet East, Kingsnorth-Singlewell and Singlewell-Northfleet East 400kV overhead line circuits to operate at a 65°C to 75°C profile.
- Re-conductor the Chessington-West Weybridge 275kV overhead line circuits.
- Re-conductor the L2 construction sections (approx. 26km) of the Canterbury North-Sellindge 400kV overhead line circuits with GAP conductor.
- Assess the potential and if viable proceed to hot-wire the L2 construction sections (approx. 11km) of the Rayleigh-Coryton South 400kV overhead line circuits to operate at a 90°C profile.
- Carry out thermal uprating of the Beddington-Chessington 275kV overhead line route.

West Ham (2009)

Install 1x225 Mvar MSC at West Ham 400kV substation.

Wimbledon (2009)

Carry out asset replacement works at Wimbledon substation, with modern 40kA rated equipment.

Deeside (2011)

Extend the main and reserve section 3/4 busbars at Deeside 400kV substation. Construct a skeleton generation bay on the new busbar section.

Overhead Line Works (2011)

Reconductor the Cellarhead-Macclesfield and Cellarhead-Daines 400kV circuits with 2x620mm² GZTACSR conductor.

Table B.3.1a – SHETL Existing Transformer Details, Winter 2007/08

The following data should be added to SYS Table B.3.1a.

Node 1	Node 2	R (% 0n 100MVA)	X (% 0n 100MVA)	B (% on 100MVA)	Rating (MVA)
BEAU11	BEAU22	0.5	12.25	0	120
BEAU12	BEAU21	0.3	12.18	0	120
BEAU12	BEAU21	0.5	12.21	0	120
DOUN10	DOUN20	0.54	9.87	0	150
KEIT10	KEIT2Q	0.1	8.96	0	240
KEIT10	KEIT2R	0.24	8.95	0	240
KINT10	KINT21	0.31	10.21	0	240
KINT10	KINT2R	0.3	12.17	0	120
PEHE11	PEHE2Q	0.3	9.97	0	240
PEHE11	PEHE2R	0.23	8.9	0	240
PERS1Q	PERS2Q	0.22	8.91	0	240
PERS1R	PERS2R	0.22	8.87	0	240
TEAL10	TEAL2Q	0.41	11.78	0	180
TEAL10	TEAL2R	0.28	11.73	0	180
TEAL10	TEAL2S	0.41	11.89	0	180
KINT10	KINT2Q	0.31	10.24	0	240
PEHE11	PEHE2Z	0.23	8.9	0	240

Table B.3.1b – SPT Existing Transformer Details, Winter 2007/08

The following data should be added to SYS Table B.3.1b.

Node 1	Node 2	R (%on 100MVA)	X (% on 100MVA)	B (% on 100MVA)	Rating (MVA)
COCK20	COCK4Q	0.014	1.6	0	1000
COCK20	COCK4R	0.013	1.6	0	1000
KILS20	KILS40	0.018	1.607	0	1000
KILS20	KILS40	0.013	1.665	0	1000
SMEA20	SMEA4R	0.013	1.6	0	1000
STHA20	STHA40	0.018	1.706	0	1000
WIYH20	WIYH4Q	0.013	1.6	0	1000
NEIL2C	NEIL4Q	0.018	1.617	0	1000
COYL10	COYL20	0.172	8.667	0	120
COYL10	COYL20	0.345	12.916	0	120
CURR10	CURR20	0.115	8.45	0	240
CURR10	CURR20	0.121	8.475	0	240
DALM10	DALM2Q	0.165	8.75	0	240
DALM10	DALM2R	0.165	8.75	0	240
GRNA10	GRNA20	0.157	8.75	0	240
GRNA10	GRNA20	0.128	8.479	0	240
WISH10	WISH20	0.13	8.888	0	215
NEIL10	NEIL20	0.151	8.479	0	240
NEIL10	NEIL20	0.146	8.521	0	240
BONN10	BONN20	0.156	8.946	0	240
BONN10	BONN20	0.156	8.946	0	240
MOSM10	MOSM2Q	0.151	8.333	0	240
MOSM10	MOSM2Q	0.157	8.75	0	240
WFIE1A	WFIE20	0.141	8.613	0	240
WFIE1B	WFIE20	0.126	8.738	0	240
WIYH10	WIYH20	0.157	8.458	0	240
WIYH10	WIYH20	0.152	8.708	0	240
WIYH10	WIYH20	0.152	8.458	0	240
ECCL10	ECCL40	0.11	9.796	0	240
ECCL10	ECCL40	0.11	9.796	0	240
TORN10	TORN40	0.167	8.333	0	240
TORN10	TORN40	0.169	8.333	0	240
DEVM10	DEVM40	0.134	8.375	0	240
DEVM10	DEVM40	0.134	8.375	0	240
HUER10	HUER40	0.112	9.347	0	360
HUER10	HUER40	0.112	9.472	0	360
NEIL1C	NEIL4Q	0.112	9.389	0	360

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