

# **2006 GB Seven Year Statement Update**

**October 2006**



## **INTRODUCTION**

We are pleased to present the October 2006 Update to our 2006 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 2006 GB Seven Year Statement and reports on changes notified to us up to 31 October 2006.

## 1. 'GB SYS BACKGROUND' SUMMARY

	2006 GB SYS	May Update	August Update	October Update
Total Generation Capacity by 2012/13 (GW)	94.5	<b>99.1</b>	<b>102.6</b>	<b>103.4</b>
Total CCGT Capacity by 2012/13 (GW)	33.5	<b>36.1</b>	<b>38.4</b>	<b>38.7</b>
Unavailable Generating Units by 2012/13 (GW)	3.4	<b>3.4</b>	<b>3.4</b>	<b>2.9</b>
Plant Margin – 2006/07 (%)	20.9	<b>21.3</b>	<b>22.1</b>	<b>22.1</b>
Plant Margin – 2012/13 (%)	38.9	<b>46.2</b>	<b>51.3</b>	<b>52.6</b>

### 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. The change for the October update is due to the return to service of Fawley unit 1.

## 2. GENERATION

### 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 needed to be converted into GB Offers.

Standard Condition C18 of the Electricity Transmission Licence places certain obligations on NGET as GBSO. The main requirements of C18 are to ensure that agreements with all existing users are in place by the BETTA go-live date (1 April 2005), and that offers for connection are made to all applicants in accordance with timescales specified in C18.

## 2.2 New Transmission Contracted Generation

The following projects have contracts that have been signed.

Station Name	Capacity (MW)	Completion Date	Company	Plant Type	Connection Point	Tariff Zone	Consents
Amlwch	270	01/09/2012	Canatxx Energy Ventures Ltd	CCGT	Amlwch 400kV	12	No
West of Duddon Sands	500	31/10/2012	Eurus Energy UK Ltd	Offshore Wind	Heysham 400kV	11	No
<b>TOTAL</b>	<b>770</b>	<b>MW</b>					

Notes:

- The Consents column refers to Section 36 and (where appropriate) Section 14 consents for generation projects.

## 2.3 Modifications to Transmission Contracted Generation

The table lists future generation projects relevant to this update.

Station Name	Capacity (MW)	Completion Date	Company	Plant Type	Connection Point	Tariff Zone	Consents
Afton	77	09/12/2009	<b>EON UK Renewables Developments Ltd</b>	Wind	Afton 33kV	11	No
Auchencorth	45	04/08/2010	<b>EON UK Renewables Developments Ltd</b>	Wind	Kaimes 33kV	9	No
Dalswinton	30	<b>31/07/2007</b>	Airtricity Developments (Scotland) Ltd	Wind	Dumfries 33kV	11	No
<b>Dungavel</b>	44	31/08/2008	E.ON UK plc	Wind	Dungavel 33kV	9	No
Gordonbush	87.5	<b>22/02/2008</b>	SSE Generation Ltd	Wind	Gordonbush 275/33kV	2	No
Greenock Wind Farm	55	31/12/2007	<b>Greenock Wind Farm (Scotland) Ltd</b>	Wind	Devol Moor 33kV	7	No
Minsca	37.5	<b>30/04/2007</b>	<b>Minsca Wind Farm (Scotland) Ltd</b>	Wind	Chapelcross 33kV	7	No
<b>TOTAL</b>	<b>376</b>	<b>MW</b>	<b>CHANGE</b>	<b>0.0</b>	<b>MW</b>		

Notes:

- Text in bold indicates differences between this update and the main 2006 GB SYS and subsequent updates.
- The Consents column refers to Section 36 and (where appropriate) Section 14 consents for generation projects.
- The above projects were reported previously as follows:
  - Dalswinton, 30MW in 2006 with a BELLA, but now has a BEGA
  - Dungavel was previously reported as having a BELLA, but in fact has a BCA
  - Gordonbush was shown as commissioning in 2008/09 in the 2006 GB SYS, but will now be shown as commissioning in 2007/08 for consistency with section 2.8
  - Minsca, 37.5MW in 2006

## 2.4 Modifications to Transmission Contracted Generation (BELLAs)

The table lists future generation projects relevant to this update.

Station Name	Capacity (MW)	Completion Date	Company	Plant Type	Connection Point	Tariff Zone	Consents
Drummond	-	-	-	-	-	-	-
Dunbeath Wind Farm	55	01/12/2008	<b>Dunbeath Wind Energy Ltd</b>	Wind	Dunbeath 33kV	2	No
<b>TOTAL</b>	<b>55</b>	<b>MW</b>	<b>CHANGE</b>	<b>0.0</b>	<b>MW</b>		

Notes:

1. Text in bold indicates differences between this update and the main 2006 GB SYS and subsequent updates.
2. The Consents column refers to Section 36 and (where appropriate) Section 14 consents for generation projects.
3. Drummond wind farm has been withdrawn.

## 2.5 Existing Transmission Contracted Generation Capacity

The following table lists existing stations that are relevant to this update.

Station Name	Unit(s)	Capacity (MW)	Effective Date	Company	Plant Type	Connection Point	Tariff Zone
Drax	all	<b>3906</b>	01/04/06	Drax Power Ltd	Large Unit Coal + AGT	Drax 400kV	11
Deeside	all	<b>495</b>	01/04/06	Deeside Power Development Company Ltd	CCGT	Deeside 400kV	14
Dungeness A	all	<b>425</b>	01/04/06	Magnox Electric Ltd	Nuclear Magnox	Dungeness	15
Little Barford A	all	<b>665</b>	01/11/05	RWE Npower plc	CCGT	Eaton Socon 400kV	15
Spalding	all	<b>880</b>	01/04/06	Spalding Energy Company Ltd	CCGT	Spalding North 400kV	14
Sizewell A	all	<b>440</b>	01/04/06	Magnox Electric Ltd	Nuclear Magnox	Sizewell	15
Wilton	all	<b>38</b>	01/01/07	Sembcorp Utilities	CCGT	Wilton 66kV	10
Wilton	all	<b>50</b>	01/04/07	Sembcorp Utilities	CCGT	Wilton 66kV	10
<b>TOTAL</b>		<b>6861</b>	<b>MW</b>	<b>CHANGE</b>	<b>+78</b>	<b>MW</b>	

Notes:

1. Text in bold shows differences between this update and the main 2006 GB SYS and subsequent updates.
2. The above stations were previously reported as follows:
  - Drax, 3885MW
  - Deeside, 475MW
  - Dungeness A, 440MW
  - Little Barford A, 655MW
  - Sizewell A, 458MW
  - Spalding, 870MW
  - Wilton, 0MW

## 2.6 Existing Transmission Contracted Generation Capacity (BELLA's)

The following table lists existing stations that are relevant to this update.

Station Name	Unit(s)	Capacity (MW)	Effective Date	Company	Plant Type	Connection Point	Tariff Zone
Beinn Ghlas Wind	all	<b>8.66</b>	31/03/05	Beaufort Wind Ltd	Wind	Taynuilt 33kV	7
<b>TOTAL</b>		<b>8.66</b>	<b>MW</b>	<b>CHANGE</b>	<b>+0.86</b>	<b>MW</b>	

Notes:

1. Text in bold shows differences between this update and the main 2006 GB SYS and subsequent updates.
2. The above stations were previously reported as follows:
  - Beinn Ghlas, 7.8MW

## 2.7 Transmission Contracted Generation beyond 2012/13

The following table lists generation projects with commissioning dates beyond 2012/13.

Station Name	Capacity (MW)	Company	Plant Type	Connection Point
Rosehall	28.5	E.ON UK Renewables	Wind	Shin 33kV
<b>TOTAL</b>		<b>28.5</b>	<b>MW</b>	

## 2.8 Transmission Entry Capacity Data

The table below gives the contracted generation TEC values applicable for winter peak 2007. As stated in the Statement of Use of System Charging Methodology, these values will be used to derive the 2007/8 TNUoS tariffs.

Licensee	Station	Owner	TEC	Plant Type
NGET	Aberthaw	RWE Npower plc	1692	Large Unit Coal + AGT
NGET	Baglan Bay	Baglan Operations Limited	552	CCGT
NGET	Barking	Barking Power Ltd	1000	CCGT
NGET	Barry	Centrica Barry Limited	245	CCGT
NGET	Connahs Quay	E.ON UK plc	1380	CCGT
NGET	Corby	Corby Power Limited	401	CCGT
NGET	Coryton	Coryton Energy Company Limited	743	CCGT
NGET	Cottam	EDF Energy (Cottam Power) Ltd	2000	Large Unit Coal + AGT
NGET	Cottam Development Centre	E.ON UK plc	395	CCGT
NGET	Cowes	RWE Npower plc	145	OCGT
NGET	Damhead Creek	Scottish Power (DCL) Ltd	805	CCGT
NGET	Deeside	Deeside Power Development Company Ltd	495	CCGT
NGET	Derwent	Derwent Cogeneration Limited	228	CHP
NGET	Didcot A	RWE Npower plc	2109	Large Unit Coal
NGET	Didcot A GTs	RWE Npower plc	100	OCGT
NGET	Didcot B	RWE Npower plc	1500	CCGT
NGET	Dinorwig	First Hydro Company	1200	Pumped Storage
NGET	Drax	Drax Power Limited	3906	Large Unit Coal + AGT
NGET	Dungeness A	Magnox Electric plc	0	Nuclear Magnox
NGET	Dungeness B	British Energy Generation Ltd	1081	Nuclear AGR
NGET	Eggborough	Eggborough Power Limited	1940	Large Unit Coal + AGT
NGET	Enfield	E.ON UK plc	390	CCGT
NGET	Fawley	RWE Npower plc	1036	Oil + AGT
NGET	Fawley CHP	Npower Cogen Trading Ltd	158	CHP
NGET	Ferrybridge	Keadby Generation Limited	1981	Large Unit Coal + AGT
NGET	Ffestiniog	First Hydro Company	360	Pumped Storage
NGET	Fiddlers Ferry	Keadby Generation Limited	1987	Large Unit Coal + AGT
NGET	French Interconnector	Interconnections Business	1988	Interconnector
NGET	Glandford Brigg	Regional Power Generators Limited	268	CCGT
NGET	Grain	E.ON UK plc	1355	Oil + AGT
NGET	Great Yarmouth	Great Yarmouth Power Limited	420	CCGT
NGET	Hartlepool	British Energy Generation Ltd	1207	Nuclear AGR
NGET	Heysham	British Energy Generation Ltd	2406	Nuclear AGR
NGET	Hinkley Point B	British Energy Generation Ltd	1261	Nuclear AGR
NGET	Immingham	Immingham CHP LLP	719	CHP
NGET	Indian Queens	AES Indian Queens Power Limited	140	OCGT
NGET	Ironbridge	E.ON UK plc	964	Large Unit Coal + AGT
NGET	Keadby	Keadby Generation Limited	735	CCGT
NGET	Killingholme 1	E.ON UK plc	900	CCGT
NGET	Killingholme 2	Centrica Generation Ltd	665	CCGT
NGET	Kings Lynn	Centrica KL Limited	340	CCGT
NGET	Kingsnorth	E.ON UK plc	1966	Large Unit Coal +

				AGT
NGET	Langage Power Station	Centrica Langage Ltd	850	CCGT
NGET	Little Barford	RWE Npower plc	665	CCGT
NGET	Littlebrook D	RWE Npower plc	1105	Oil + AGT
NGET	Medway	Medway Power Limited	700	CCGT
NGET	Oldbury-on-Severn	Magnox Electric plc	470.4	Nuclear Magnox
NGET	Pembroke 1	RWE Npower plc	800	CCGT
NGET	Peterborough	Centrica PB Limited	405	CCGT
NGET	Ratcliffe-on-Soar	E.ON UK plc	2021	Large Unit Coal + AGT
NGET	Rocksavage	Rocksavage Power Company Ltd	748	CCGT
NGET	Roosecote	Centrica RPS Limited	229	CCGT
NGET	Rugeley B	Rugeley Power Limited	1018	Large Unit Coal + AGT
NGET	Rye House	Scottish Power Generation Ltd	715	CCGT
NGET	Saltend	Saltend Cogeneration Company Limited	1100	CCGT
NGET	Seabank	Seabank Power Limited	1234	CCGT
NGET	Sellafield	Fellside Heat and Power Limited	155	CHP
NGET	Shoreham	Scottish Power (SCPL) Ltd	420	CCGT
NGET	Shotton	Gaz de France Marketing Limited	210	CHP
NGET	Sizewell A	Magnox Electric plc	0	Nuclear Magnox
NGET	Sizewell B	British Energy Generation Ltd	1190	Nuclear PWR
NGET	South Humber Bank	Humber Power Limited	1285	CCGT
NGET	Spalding	Spalding Energy Company Limited	880	CCGT
NGET	Sutton Bridge	EDF Energy (Sutton Bridge Power) plc	800	CCGT
NGET	Taylor's Lane	E.ON UK plc	144	OCGT
NGET	Teesside	Teesside Power Limited	1875	CCGT
NGET	Tilbury B	RWE Innogy plc	1121	Medium Unit Coal + AGT
NGET	Uskmouth	Uskmouth Power Company Limited	363	Small Unit Coal
NGET	West Burton	West Burton Limited	1987	Large Unit Coal + AGT
NGET	Wilton	Sembcorp Utilities	50	Biomass
NGET	Wylfa	Magnox Electric plc	980	Nuclear Magnox
SHETL	Aigas	SSE Generation Limited	20	Hydro
SHETL	Akron Wind (Caithness)	SSE Generation Limited	BELLA	Wind
SHETL	Allt na Lairige	SSE Generation Limited	BELLA	Hydro
SHETL	An Suidhe	An Suidhe Wind Farm Ltd	30	Wind
SHETL	Ardkinglas Clachan (SRO)	Amec	19.25	Wind
SHETL	Ark Hill Wind Farm, Glamis (SRO)	Renewable Energy Systems Ltd	BELLA	Wind
SHETL	Baldovie Waste to Energy Plant	Dundee Energy Recycling Ltd	BELLA	Waste
SHETL	Beinn An Turic Wind	CRE Energy Ltd	BELLA	Wind
SHETL	Beinn Ghlas Wind	Beaufort Wind Limited	BELLA	Wind
SHETL	Beinn Tharsuinn	CRE Energy Ltd	29	Wind
SHETL	Ben Aketil Wind	Ben Aketil Wind Farm Ltd	BELLA	Wind
SHETL	Bogan Lea	Eco 2 Limited	BELLA	Wind
SHETL	Bowmore - Islay	Scottish Hydro-Electric Power Distribution Ltd	BELLA	Thermal
SHETL	Boyndie Wind	Boyndie Wind Energy Limited	BELLA	Wind
SHETL	Braes of Doune	Airtricity Developments (Scotland) Ltd	74	Wind
SHETL	Burgar Hill (NWP) Orkney	RWE Npower plc	BELLA	Wind
SHETL	Cairn Uish Wind, Rothes	Rothes Wind Limited	BELLA	Wind
SHETL	Cashlie	SSE Generation Limited	11.12	Hydro
SHETL	Cassley	SSE Generation Limited	BELLA	Hydro
SHETL	Causeymire	Causeymire Windfarm Limited	BELLA	Wind

SHETL	Ceannacroc	SSE Generation Limited	20	Hydro
SHETL	Clachan	SSE Generation Limited	40	Hydro
SHETL	Clunie	SSE Generation Limited	61.2	Hydro
SHETL	Cruach Mhor	CRE Energy Ltd	BELLA	Wind
SHETL	Culligran	SSE Generation Limited	19.1	Hydro
SHETL	Deanie	SSE Generation Limited	38	Hydro
SHETL	Deucheran Hill Wind	E.ON UK Renewables Ltd	BELLA	Wind
SHETL	Drumderg Wind Farm, Dalrulzion	SSE Generation Limited	BELLA	Wind
SHETL	Errochty	SSE Generation Limited	75	Hydro
SHETL	Fairburn Wind Farm	SSE Generation Limited	BELLA	Wind
SHETL	Farr Windfarm	Farr Windfarm Ltd	92	Wind
SHETL	Fasnakyle G1 & G2	SSE Generation Limited	46	Hydro
SHETL	Fasnakyle G3 & G4	SSE Generation Limited	23	Hydro
SHETL	Finlarig	SSE Generation Limited	16.5	Hydro
SHETL	Flotta Terminal	Talisman Energy (UK) Limited	BELLA	OCGT
SHETL	Foyers	SSE Generation Limited	300	Pumped Storage
SHETL	Foyers Falls	SSE Generation Limited	BELLA	Hydro
SHETL	Gaur Hydro	SSE Generation Limited	BELLA	Hydro
SHETL	Glenmoriston	SSE Generation Limited	37	Hydro
SHETL	Glens of Foudland Wind (SRO)	Glens of Foudland Wind Farm Ltd	26	Wind
SHETL	Griffin Windfarm	GreenPower (Griffin) Limited	216	Wind
SHETL	Grudie Bridge	SSE Generation Limited	BELLA	Hydro
SHETL	Houstry Wind, Dunbeath	Boulfruch Wind Farm Limited	BELLA	Wind
SHETL	Insch Windfarm, Insch	Eco 2 Limited	BELLA	Wind
SHETL	Inverawe	SSE Generation Limited	BELLA	Hydro
SHETL	Invergarry	SSE Generation Limited	20	Hydro
SHETL	Inverurie Paper Mills	International Paper (UK) Ltd	BELLA	CHP/Steam
SHETL	Kilmorack	SSE Generation Limited	20	Hydro
SHETL	Kirkwall	Scottish Hydro-Electric Power Distribution Ltd	BELLA	Thermal
SHETL	Lairg - Achany Wind Farm	SSE Generation Limited	BELLA	Wind
SHETL	Lerwick A	SSE Generation Limited	BELLA	Diesel
SHETL	Lerwick B	SSE Generation Limited	BELLA	Diesel
SHETL	Livishie	SSE Generation Limited	15	Hydro
SHETL	Loch Carnan - South Uist	Scottish Hydro-Electric Power Distribution Ltd	BELLA	Thermal
SHETL	Loch Gair	SSE Generation Limited	BELLA	Hydro
SHETL	Lochay	SSE Generation Limited	47	Hydro
SHETL	Luichart	SSE Generation Limited	34	Hydro
SHETL	Marine Energy Test Centre	The European Marine Energy Centre Ltd.	BELLA	Tidal
SHETL	Millennium Wind, Ceannacroc	Millennium Wind Energy Limited	65	Wind
SHETL	Mossford	SSE Generation Limited	18.66	Hydro
SHETL	Nant	SSE Generation Limited	15	Hydro
SHETL	Novar	Beaufort Wind Limited	BELLA	Wind
SHETL	Orrin	SSE Generation Limited	18	Hydro
SHETL	Paul's Hill Wind	Paul's Hill Wind Limited	BELLA	Wind
SHETL	Peterhead	SSE Generation Limited	1524	CCGT
SHETL	Pitlochry	SSE Generation Limited	15	Hydro
SHETL	Quoich	SSE Generation Limited	18	Hydro
SHETL	Rannoch	SSE Generation Limited	BELLA	Hydro
SHETL	Shin	SSE Generation Limited	BELLA	Hydro
SHETL	Sloy G1 & G4	SSE Generation Limited	72.5	Hydro
SHETL	Sloy G2 & G3	SSE Generation Limited	80	Hydro

SHETL	Spurness Wind Farm, Orkney	SSE Generation Limited	BELLA	Wind
SHETL	Sron Mor	SSE Generation Limited	BELLA	Hydro
SHETL	St Fillans	SSE Generation Limited	BELLA	Hydro
SHETL	Stoneywood Mills (Wiggins Teape)	Arjo Wiggins Fine Papers Limited	BELLA	CHP/Steam
SHETL	Stornoway (Battery Point)	Scottish Hydro-Electric Power Distribution Ltd	BELLA	Thermal
SHETL	Strath Brora Wind, Brora	Strath Brora Wind Energy Limited	67	Wind
SHETL	Striven	SSE Generation Limited	BELLA	Hydro
SHETL	Taits Mills	Thomas Tait and Sons Ltd	BELLA	
SHETL	Tangy	SSE Generation Limited	BELLA	Wind
SHETL	Torr Achilty	SSE Generation Limited	15	Hydro
SHETL	Tullo Wind Farm, Laurencekirk	Tullo Wind Farm Limited	BELLA	Wind
SHETL	Tummel	SSE Generation Limited	BELLA	Hydro
SPTL	Black Law	CRE Energy Ltd	134	Wind
SPTL	Broadmeadows	GreenPower (Broadmeadows) Ltd	BELLA	Wind
SPTL	Chapelcross	British Nuclear Fuels Plc	0	Nuclear
SPTL	Cockenzie	Scottish Power Generation Ltd	1152	Medium Unit Coal
SPTL	Cruachan	Scottish Power Generation Ltd	440	Pumped Storage
SPTL	Dalswinton	Airtricity Developments (Scotland) Ltd	30	Wind
SPTL	Dunbar	Crystal Rig Windfarm Limited	BELLA	Wind
SPTL	Earlsburn	Earlsburn Wind Energy Limited	BELLA	Wind
SPTL	Fife	SSE Generation Limited	123	CHP
SPTL	Grangemouth	Grangemouth CHP Ltd	120	CHP
SPTL	Greenknowes	CRE Energy Ltd	31.5	Wind
SPTL	Greenock Wind Farm	Airtricity Developments (Scotland) Ltd	55	Wind
SPTL	Hadyard Hill	SSE Generation Limited	130	Wind
SPTL	Hunterston	British Energy Generation (UK) Limited	1210	Nuclear AGR
SPTL	Inverkip	Scottish Power Generation Ltd	0	Thermal
SPTL	Longannet	Scottish Power Generation Ltd	2304	Large Unit Coal
SPTL	Minsca	Airtricity Developments (Scotland) Ltd	37.5	Wind
SPTL	Moyle Interconnector	Moyle Interconnector Ltd	80	Interconnector
SPTL	Steven's Croft	E.ON UK plc	BELLA	Biomass
SPTL	Tongland	Scottish Power Generation Ltd	BELLA	Hydro
SPTL	Tormywheel	PM Renewables Ltd	BELLA	Wind
SPTL	Torness	British Energy Generation (UK) Limited	1200	Nuclear AGR
SPTL	Whitelee	CRE Energy Ltd	322	Wind

### 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. 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)						
	06/07	07/08	08/09	09/10	10/11	11/12	12/13
GB SYS background (SYS)	76822	79024	86611	89365	97560	100460	103448
Consents (C)	76822	77409	79108	79308	78753	78753	79603
Existing or Under Construction (E,UC)	76822	76237	77535	77535	76980	76980	77830
Winter Peak Demand	62900	63900	64700	65500	66300	67000	67800

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 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.

#### 3.2 Plant Margins

The following projected margins include changes in generation capacity given in section 3.1 above for directly-connected and Large Power Stations and use the customer-based demand forecasts given in section 3.1.

Generation Background	Plant Margin (%)						
	06/07	07/08	08/09	09/10	10/11	11/12	12/13
GB SYS background (SYS)	22.1	23.7	33.9	36.4	47.1	49.9	52.6
Consents (C)	22.1	21.1	22.3	21.1	18.8	17.5	17.4
Existing or Under Construction (E,UC)	22.1	19.3	19.8	18.4	16.1	14.9	14.8

Notes:

1. The three different backgrounds correspond to those in section 3.1.

#### **4. TRANSMISSION SYSTEM**

The following items are reported as either significant changes to the planned transmission system, or revisions to construction programmes.

##### **Hackney (by 2009)**

Install three new 400/132kV transformers (SGT3, SGT4 and SGT5) at a new nine-bay 400kV double-busbar GIS substation at Hackney.

Loop-in the new Hackney 400kV substation into the existing Tottenham-Hackney-West Ham circuit 2, upgrading the Hackney-West Ham route to form a new Hackney-West Ham 400kV circuit 2, and install a new 400/275kV SGT (SGT7) to connect to the existing Hackney 275kV substation.

##### **Hackney (by 2010)**

Loop-in the new Hackney 400kV substation into the existing Tottenham-Hackney-West Ham circuit 1, upgrading the Hackney-West Ham route to form a new Hackney-West Ham 400kV circuit 1, and install a new 400/275kV SGT (SGT6) to connect to the existing Hackney 275kV substation.

##### **Overhead Line Works (by 2011)**

The Beaulieu-Denny overhead line construction scheme was reported in the main 2006GB SYS with a planned completion date in 2008. Due to delays in this project, completion is now planned for October 2011. Details of the scheme can be found in the 2006 GB SYS.

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