Appendix A includes a set of system schematics and geographic drawings of the current NETS, with the approximate locations of existing power stations and reactive compensation plants shown. The schematics also show the NETS boundaries and ETYS zones we have used in our analysis.

Appendix A

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Contents
Figure A1: GB Existing Power Stations

PLANT TYPE
NUCLEAR  •
COAL  •
OIL & OCGT  •
CCGT/CHP  •
HYDRO/PUMPED STORAGE  •
WIND  •
OTHER  •
SUBSTATIONS  •

Wylfa
Deucheran
Beinn an Tuirc
Tangy Farm
Farr
Paul's Hill
Cairn Uish
Drumderg
Boyndie
Glens of Foundland
Hadyard Hill
Ben Aketil
Edinbane
Causeymire
Buolfruich
Kilbraur
Gordonbush
Lairg-Achany
Beinn Tharsiun
Novar
Fairburn
Millennium
Tullo
Braes of Doune
Earlsburn
Aikengall
Crystal Rig
1 & 2
Dun Law
Bowbeat
Long Park
Toddleburn
Whitelee
Dalswinton
Minsca
Cruach Mho
Ardkinglas

Lynn
Inner Dowsing
Scroby sands
Sheringham Shoal
Rhyl Flats
Burbo Bank
Gwynt y Mor
Barrow
Ormonde
Walney I & II
Robin Rigg
Thanet
Gunfleet Sands I&II
Greater Gabbard 500MW
North Hoyle
London Array
Arecleoch
Mark Hill
Clyde South
Black Law
Clyde North
Moyle
Baillie & Bernaheig
Rosehall
Dummuies
Griffin
Westermost Rough
Humber Gateway
Lincs
West of Duddon
Berry Burn
Harestanes
Lochluichart
Teesside
A Cruach
Cour
Carraig Gheal
Corriemoillie
Corriegarth
Edintore
Dunmaglass
Moy
Kilgalioch
Grundon
Kilgalioch
Black Law
Black Law
Extension
Assel Valley
Harburn Head
Extension
Keithshill
Airies
Calderwater
Andershaw
Quixwood
Penmanshiel
Pogbie

Triton Knoll
Race Bank
Dudgeon
Greater Gabbard 2nd part
Tongland
Quoich
Invergarry
Sloy
Clachan
Griffin
Westermost Rough
Humber Gateway
Lincs
West of Duddon
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Calderwater
Andershaw
Quixwood
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Pogbie
Figure A3: GB Transmission System Boundaries

- 400kV Substations
- 275kV Substations
- 132kV Substations
- 400kV Circuits
- 275kV Circuits
- 220kV Circuits
- 132kV Circuits
- Interconnections
- System Boundaries

Major Generating Sites Including Pumped Storage
- Connected at 400kV
- Connected at 275 kV
- Hydro Generation

Legend:
- B0
- B1
- B1a
- B2
- B2a
- B3b
- B4
- B5
- B6
- B7
- B7a
- NW1
- NW2
- NW3
- NW4
- B8
- B9
- B10
- B11
- B12
- B13
- B14
- B15
- B16
- SC1
- SC2
- EC1
- EC3
- EC5
- To Netherlands
- Dogger Bank
- East Anglia
- East Midlands
- Greater Gabbard 500MW
- Grain
- Kemsley
- KeepFIT
- Lyonshall
- Milton
- Nant
- North
- North Stow
- Ormonde
- Pentir
- Rannoch
- Robin Rigg
- South
- South East
- South West
- St. Fergus
- South West
- To Netherlands
- UK Border
- Whitelee
- Woodside
- Zoar
Figure A5: GB Transmission System ETYS Zones

Legend:
- 400kV Circuit
- 275kV Circuit
- 132kV Circuit
- 400kV Substation
- 275kV Substation
- 132kV Substation

Note: Not all radial 132kV circuits are indicated on this diagram.
Figure A6: GB Transmission System Boundaries

Legend

- 400kV Circuit
- 275kV Circuit
- 132kV Circuit
- 132kV Substation
- 275kV Substation
- System Boundaries

Note: Not all radial 132kV circuits are indicated on this diagram.
Figure A7: GB Reactive Compensation Plant

Legend
- 400kV Circuit
- 275kV Circuit
- 132kV Circuit
- 400kV Substation
- 275kV Substation
- 132kV Substation
- SVC
- SVC
- Series Capacitor

Note: Not all radial 132kV circuits are indicated on this diagram.