



The power of action.TM

GB Seven Year Statement 2009

Figures



Figure A.1.1 2009/10 Transmission System with Large Power Stations as at 31 December 2008

Figure A.1.2 2009/10 Transmission System as at 31 December 2008

Figure A.1.3 GB Generation Use of System Tariff Zones, 2009/10

Figure A.1.4 GB Demand Use of System Tariff Zones, 2009/10

Figure A.1.5 GB National Parks, 2009/10

Figure A.1.6 GB Transmission Boundaries and SYS Study Zones, 2009/10

Figure A.2.1 SHETL Existing Transmission System, 2008/09

Figure A.2.2 SHETL Generation Use of System Tariff Zones (Electrical), 2009/10

Figure A.2.3 SHETL Reactive Compensation Plant, 2009/10

Figure A.2.4 SHETL Transmission Boundaries and SYS Study Zones, 2015/16

Figure A.3.1 SPT Existing Transmission System, 2008/09

Figure A.3.2 SPT Generation Use of System Tariff Zones (Electrical), 2009/10

Figure A.3.3 SPT Reactive Compensation Plant, 2009/10

Figure A.3.4 SPT Transmission Boundaries and SYS Study Zones, 2015/16

Figure A.4.1 NGET Existing Transmission System, 2008/09

Figure A.4.2 NGET Generation Use of System Tariff Zones (Electrical), 2009/10

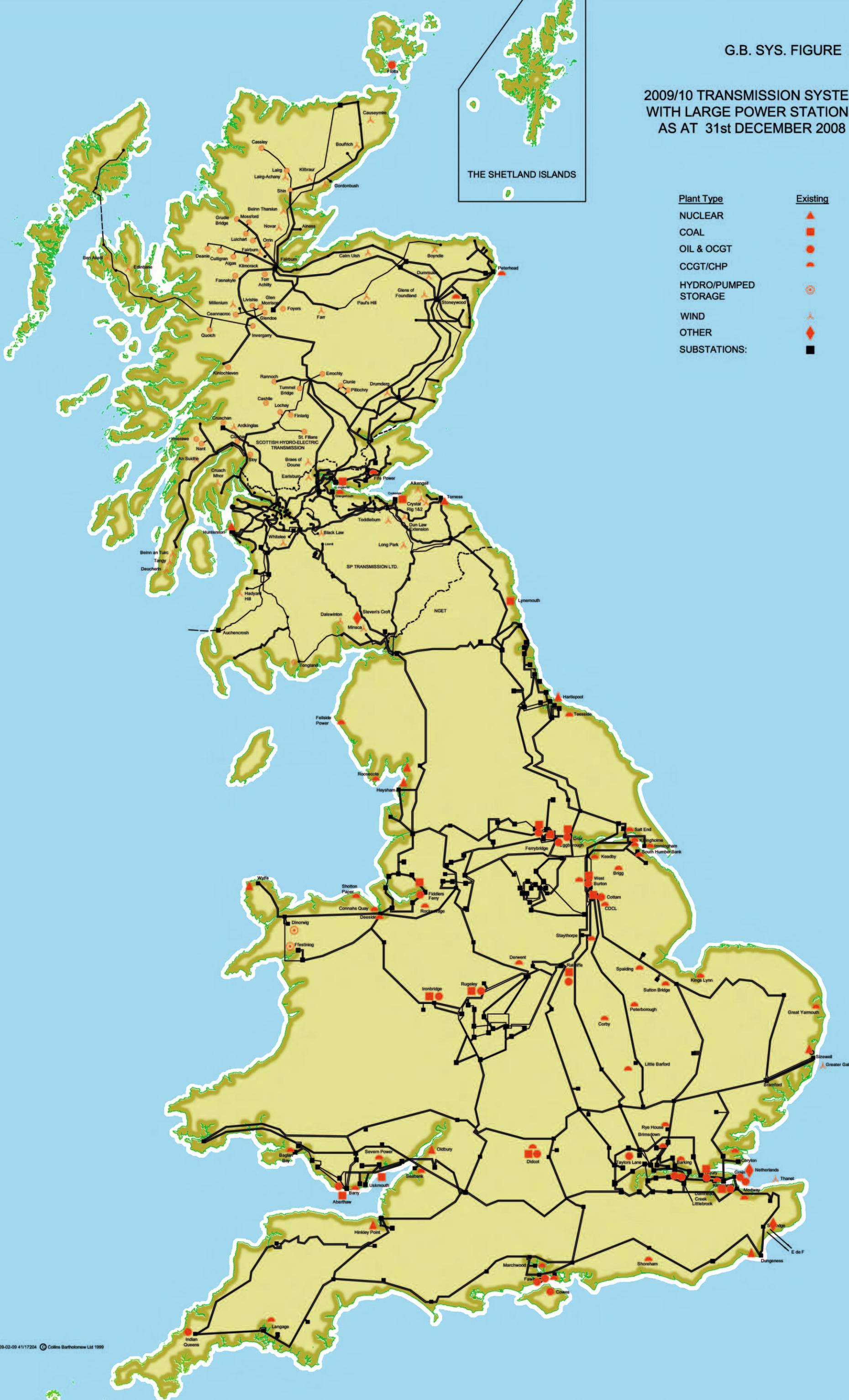
Figure A.4.3 NGET Reactive Compensation Plant, 2009/10

Figure A.4.4 NGET Transmission Boundaries and SYS Study Zones, 2015/16

- Copyright © 2009 National Grid
- [Terms & conditions](#)
- [Privacy policy](#)

G.B. SYS. FIGURE A.1.1

2009/10 TRANSMISSION SYSTEM
WITH LARGE POWER STATIONS
AS AT 31st DECEMBER 2008



GB SYS FIG.A.1.2

2009/10 TRANSMISSION SYSTEM
AS AT 31st DECEMBER 2008

THE SHETLAND ISLANDS

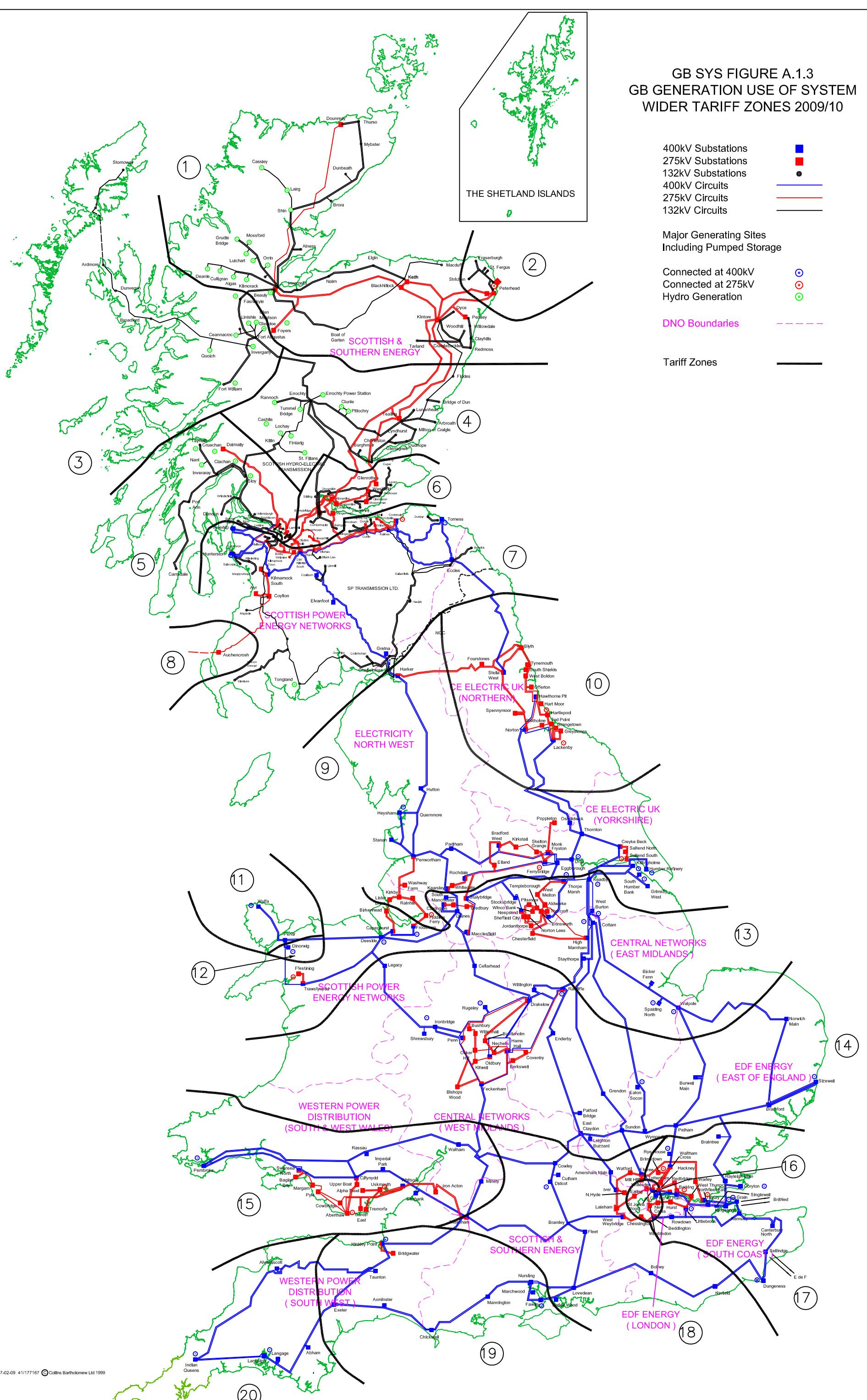
- 400kV Substations
275kV Substations
132kV Substations
400kV Circuits
275kV Circuits
132kV Circuits

Major Generating Sites Including Pumped Storage

- Connected at 400kV
Connected at 275kV
Hydro Generation

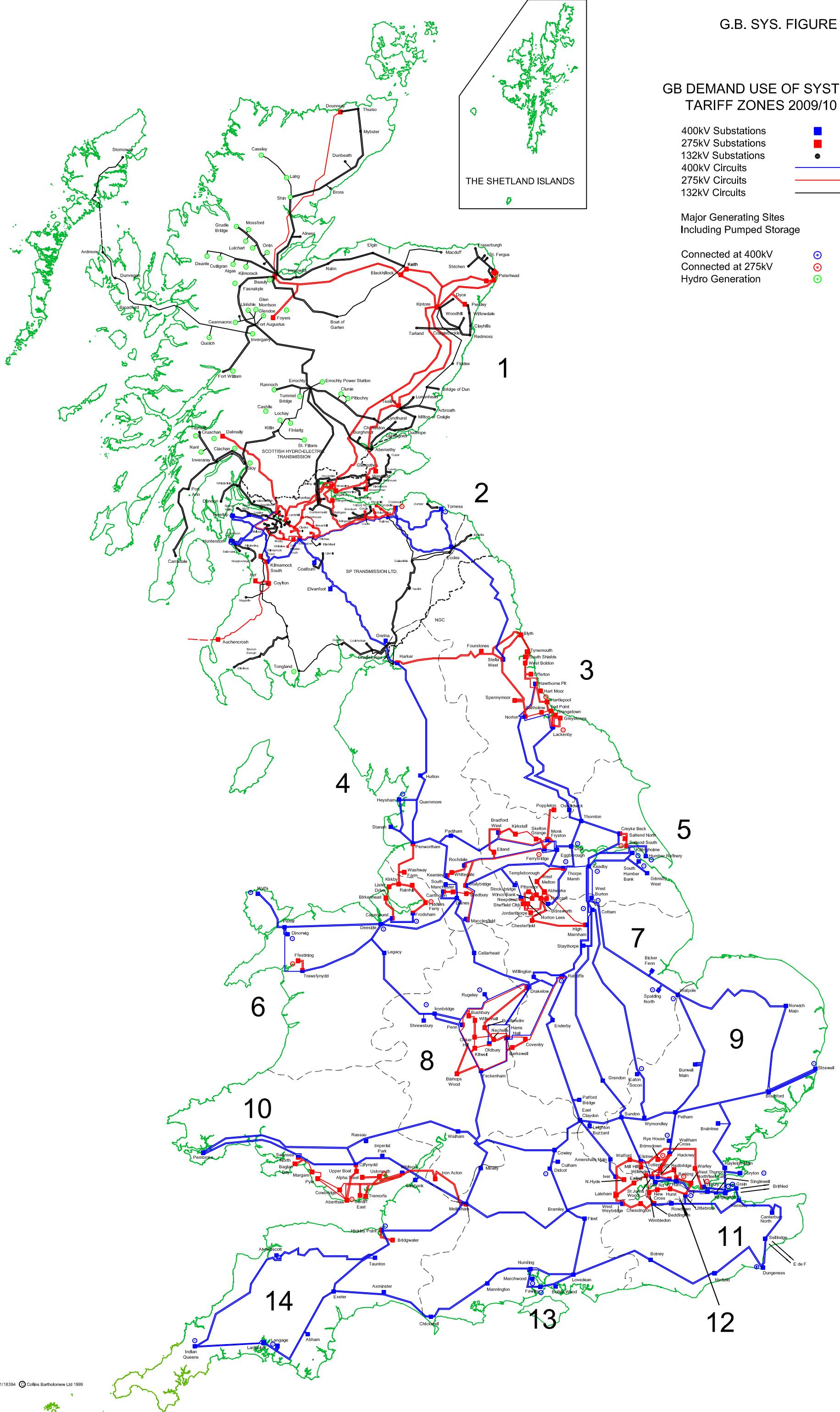


GB SYS FIGURE A.1.3
GB GENERATION USE OF SYSTEM
WIDER TARIFF ZONES 2009/10



G.B. SYS. FIGURE A.1.4

GB DEMAND USE OF SYSTEM TARIFF ZONES 2009/10



GB SYS FIG.A.1.5

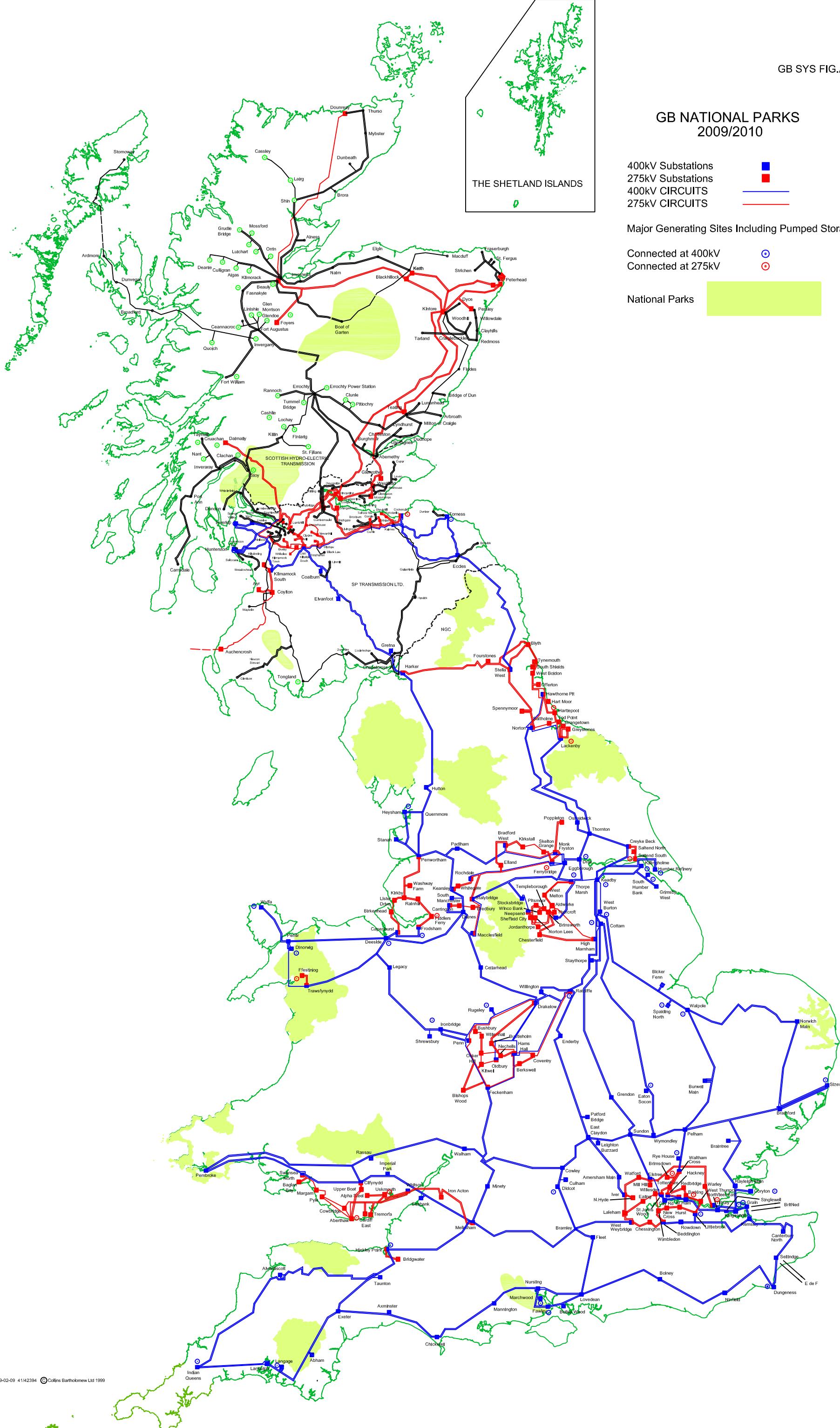
GB NATIONAL PARKS
2009/2010

400kV Substations
275kV Substations
400kV CIRCUITS
275kV CIRCUITS

Major Generating Sites Including Pumped Storage

Connected at 400kV
Connected at 275kV

National Parks



GB SYS FIG.A.1.6

GB TRANSMISSION BOUNDARIES AND SYS STUDY ZONES

2009/10

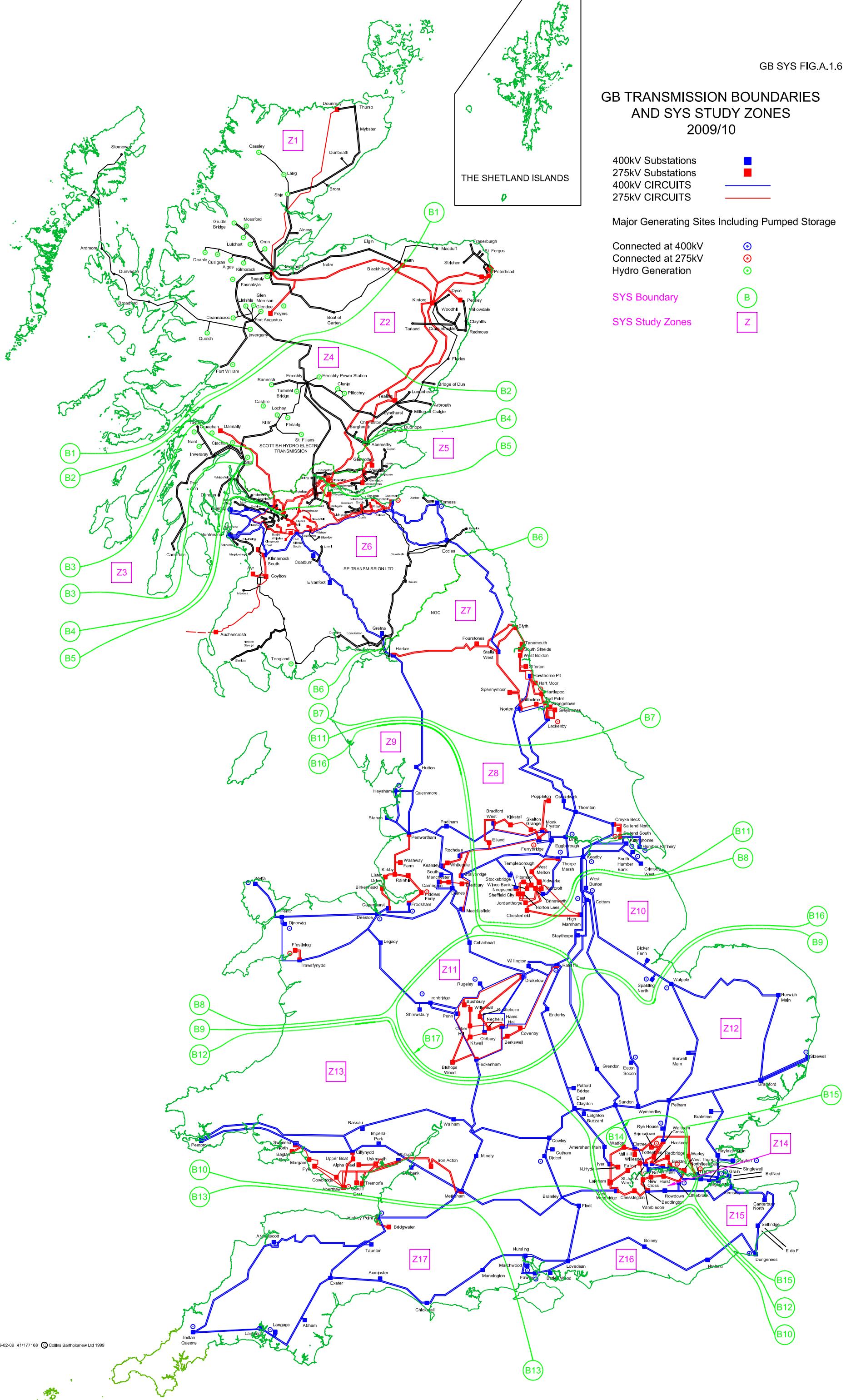
400kV Substations
275kV Substations
400kV CIRCUITS
275kV CIRCUITS

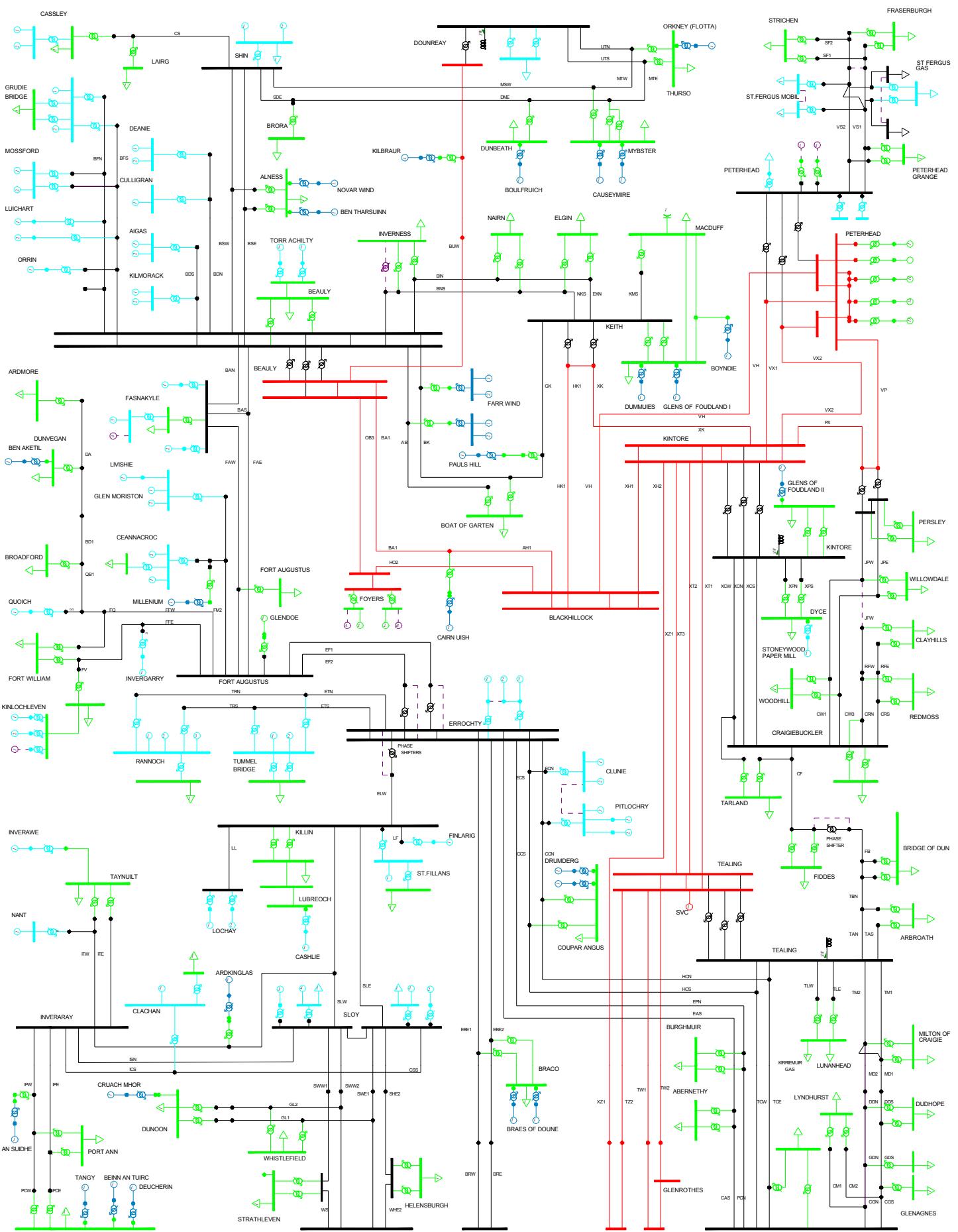
Major Generating Sites Including Pumped Storage

Connected at 400kV
Connected at 275kV
Hydro Generation

SYS Boundary

SYS Study Zones





SCOTTISH HYDRO-ELECTRIC TRANSMISSION LTD
SYS09 - YEAR 1 FIGURE A.2.1
WED, APR 29 2009 11:56

Figure A.2.1 - SHETL Existing Transmission System, 2008/09

Bus - VOLTAGE (PU)
Branch - MW/Mvar
Equipment - MW/Mvar
100.0% RATED
100.0% 1000A400V
KV: <=1.000 <=11.000 <=33.000 <=132.000 <=275.000

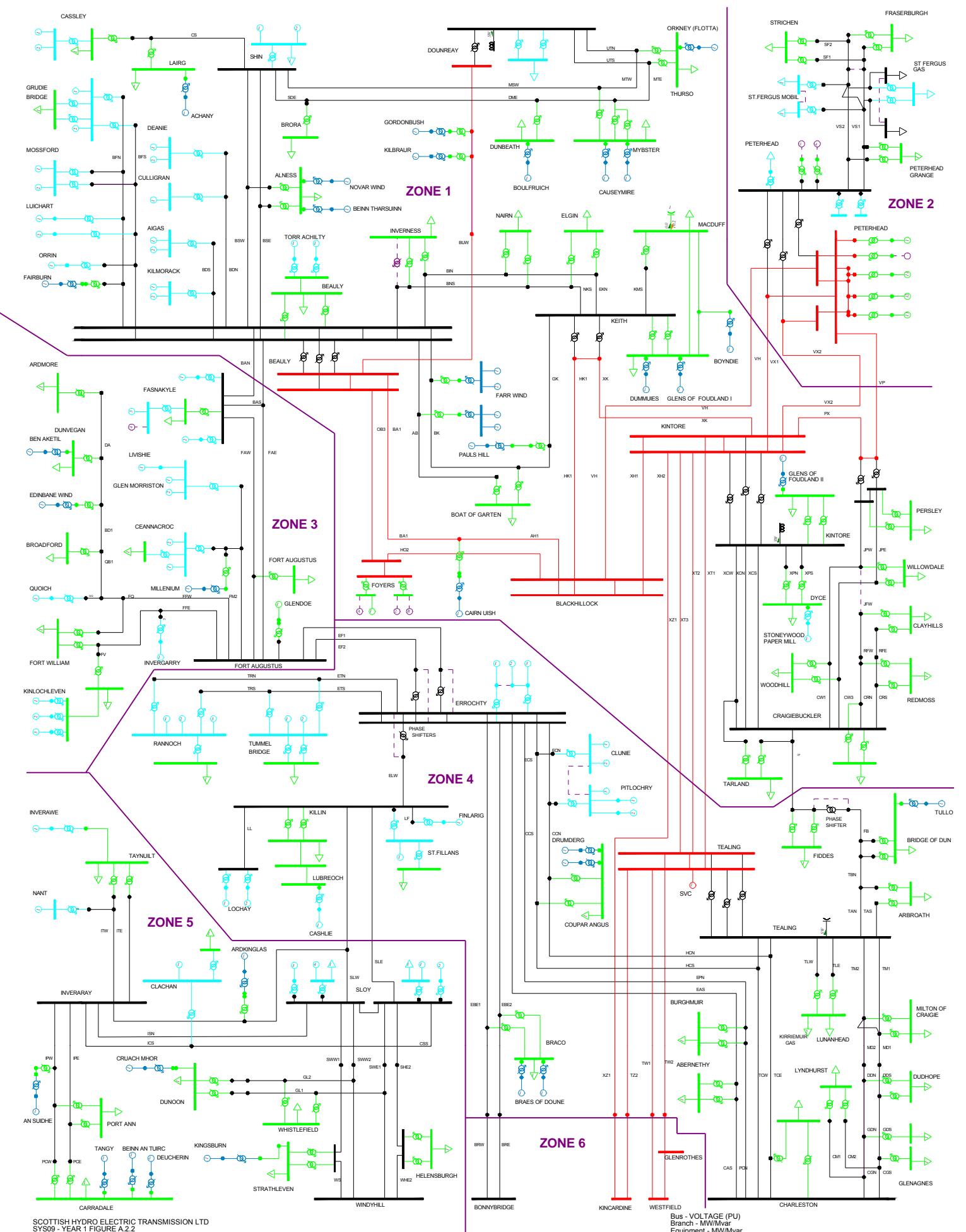
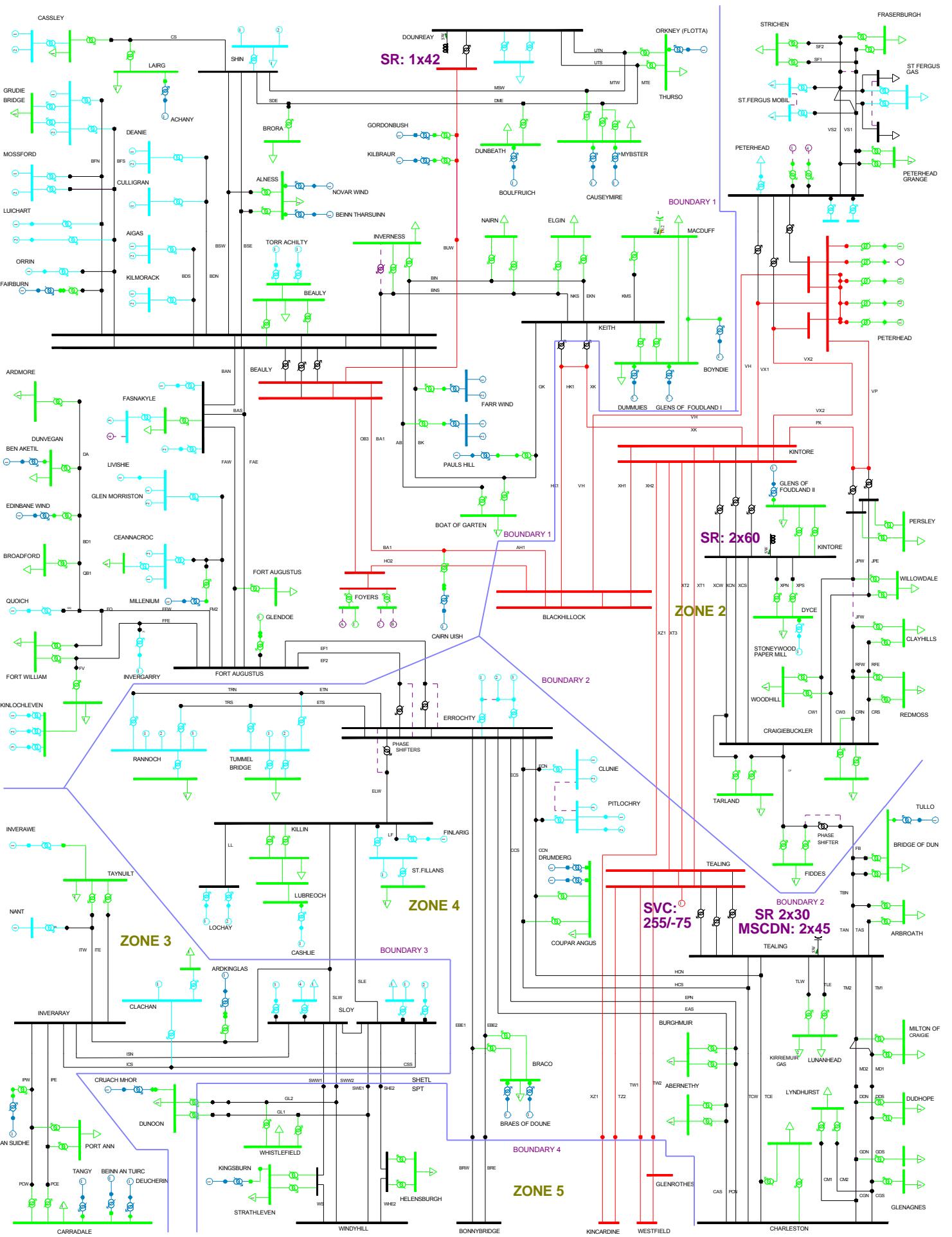
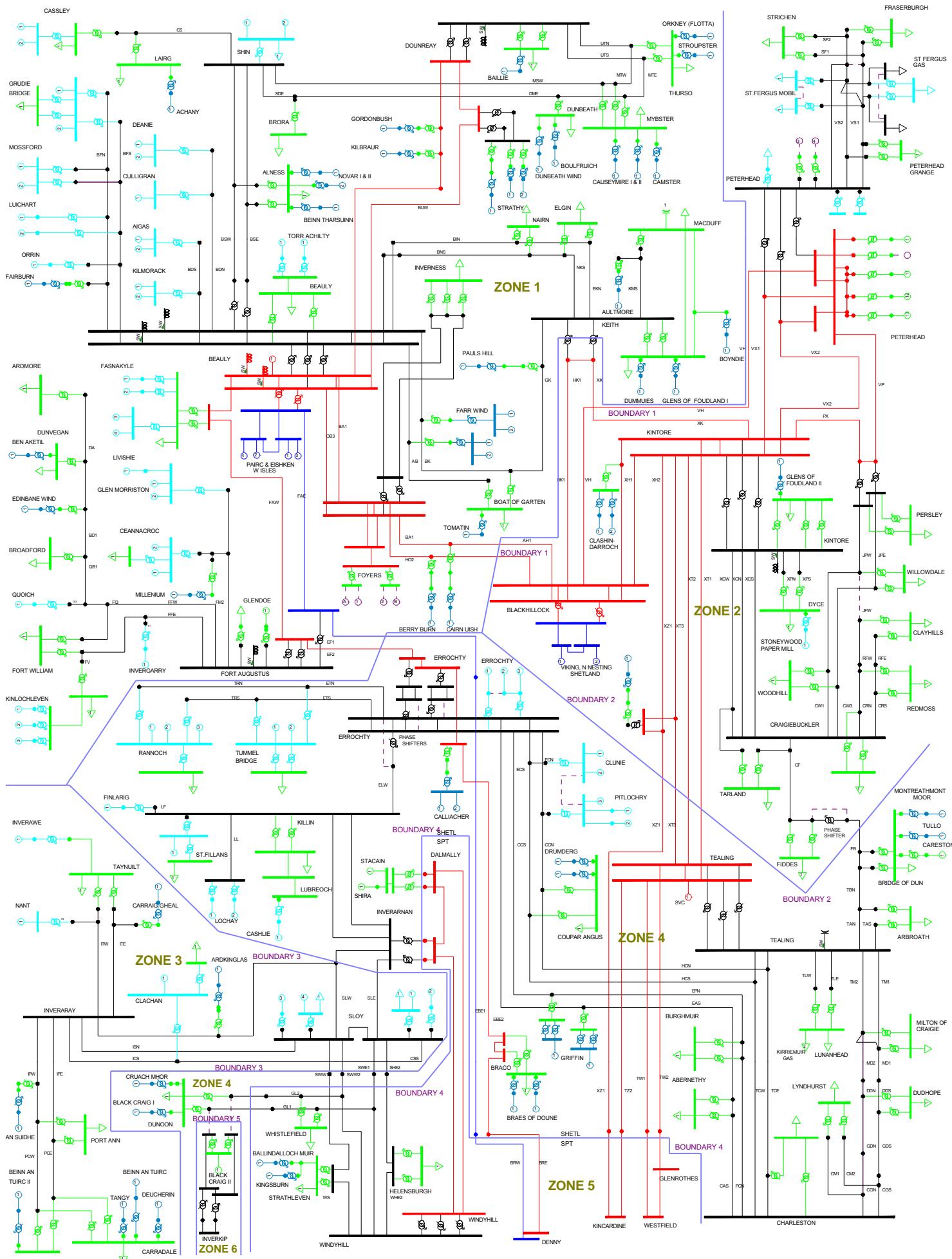


Figure A.2.2 - SHETL Generation Use of System Tariff Zones (Electrical), 2009/10

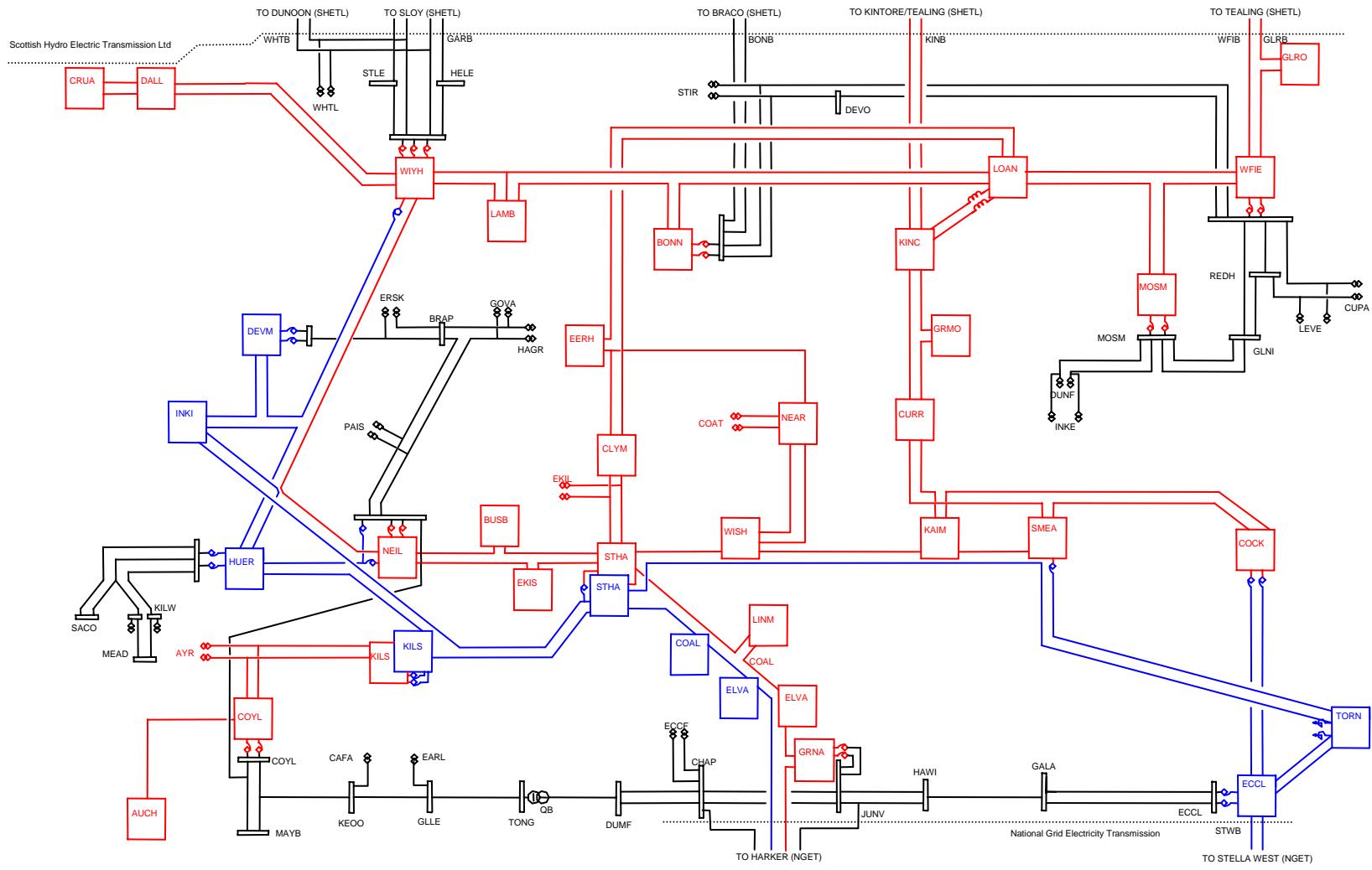




SCOTTISH HYDRO ELECTRIC TRANSMISSION LTD
SYS9 - YEAR 7 FIGURE A.2.4
WED. MAY 06 2009 12:04

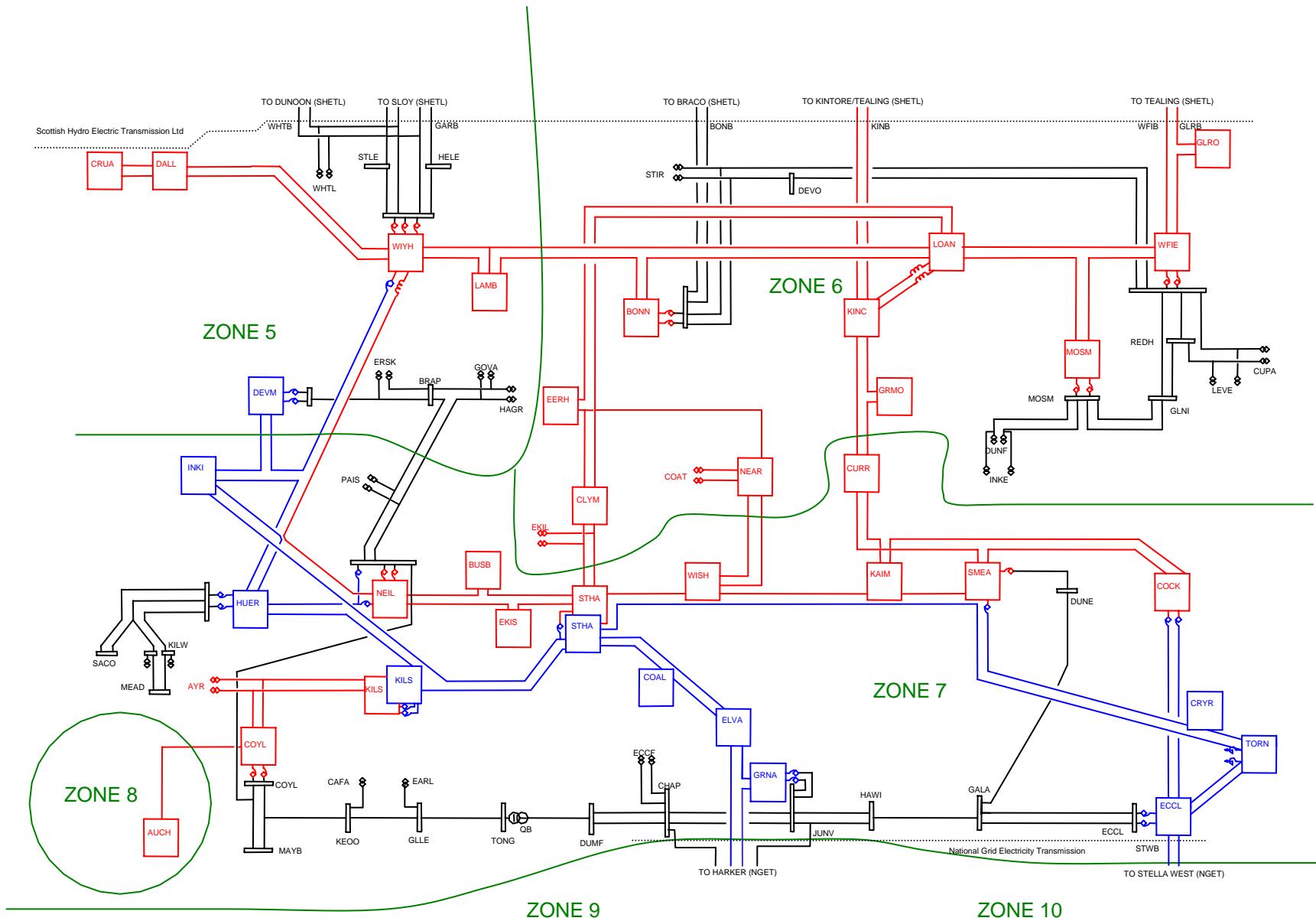
Figure A.2.4 - SHETL Transmission Boundaries and SYS Study Zones, 2015/16

Bus - VOLTAGE (PU)
Branch - MW/Mvar
Equipment - Mvar
1000 MVARATEA
1.000 <=1.000 <=11.000 <=33.000 <=132.000 <=275.000 <=400.000
KV: <=1.000 <=11.000 <=33.000 <=132.000 <=275.000 <=400.000



INTERCONNECTED TRANSMISSION SYSTEM
SPT Existing Transmission System, April 2009

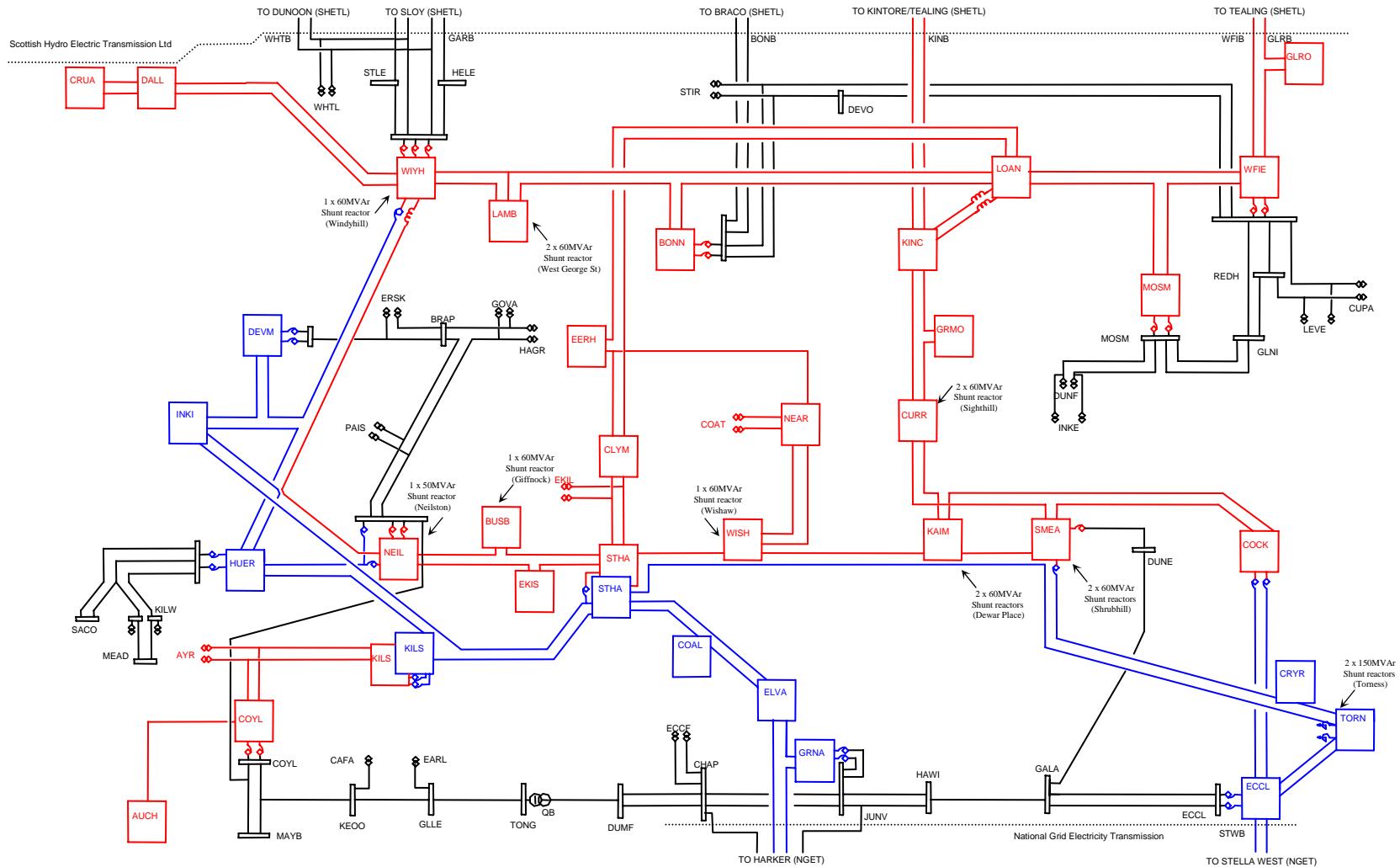
Figure A.3.1



400kV BLUE
275kV RED
132kV BLACK

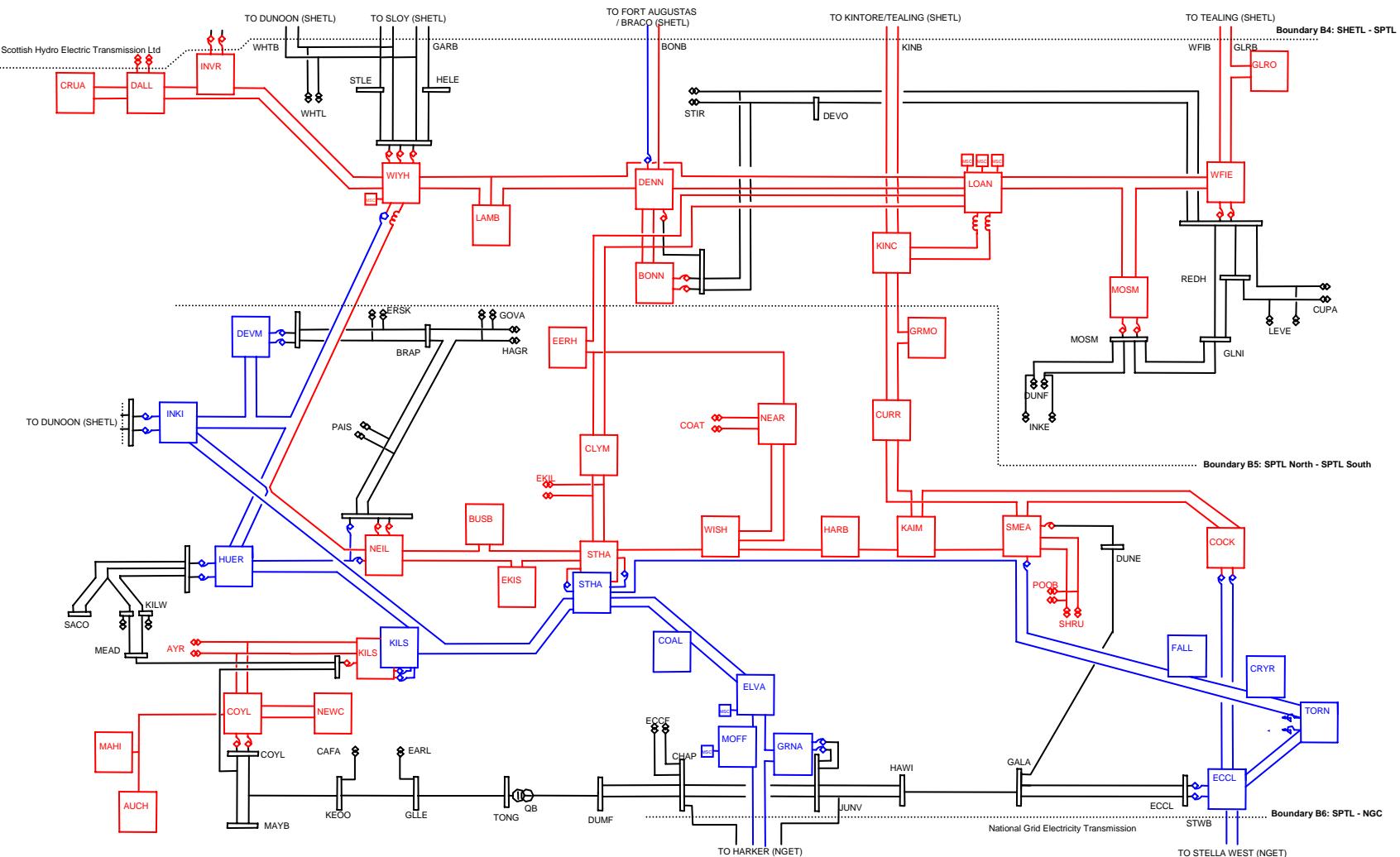
INTERCONNECTED TRANSMISSION SYSTEM
SPT Generation Use of System Tariff Zones (Electrical), April 2010

Figure A.3.2



INTERCONNECTED TRANSMISSION SYSTEM
SPT Reactive Compensation, April 2010

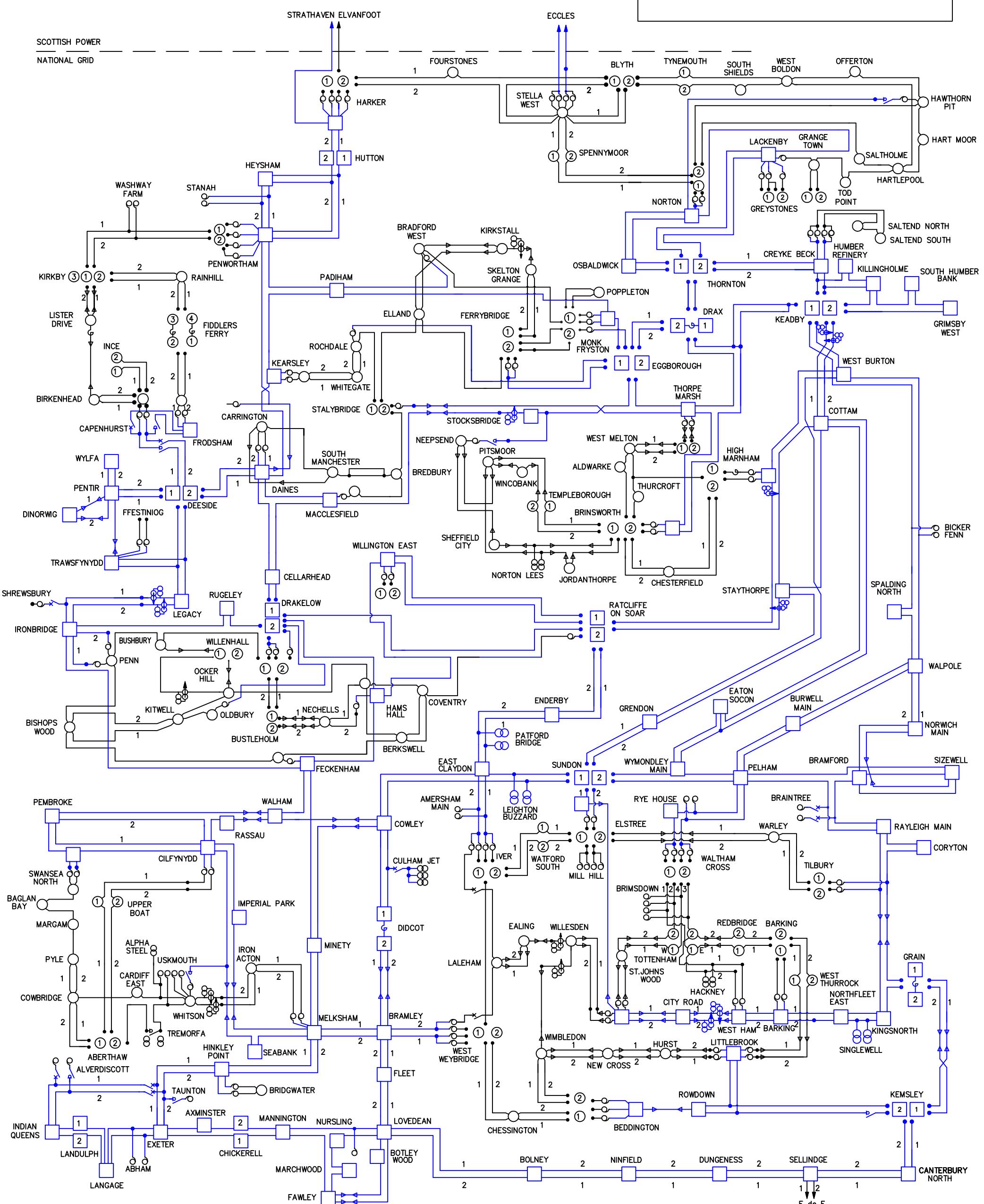
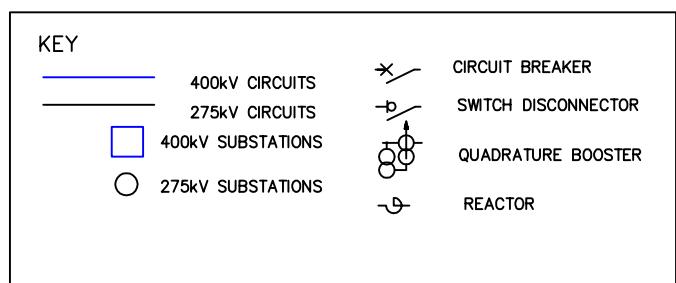
Figure A.3.3



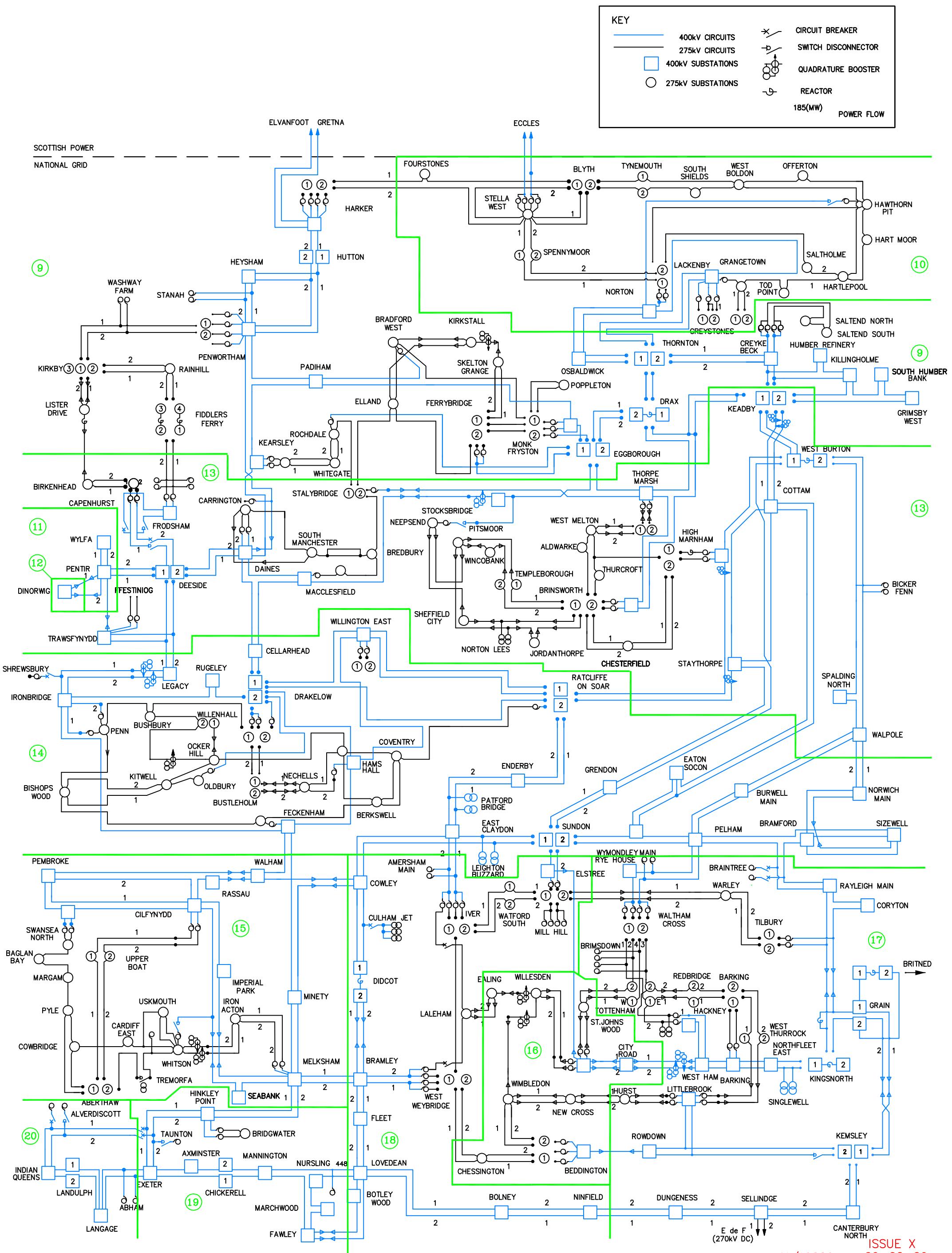
INTERCONNECTED TRANSMISSION SYSTEM
SPT Transmision Boundaries and SYS Study Zones, 2015/16

Figure A.3.4

GB SYS FIG. A.4.1. – NGET EXISTING TRANSMISSION SYSTEM – 2008/09

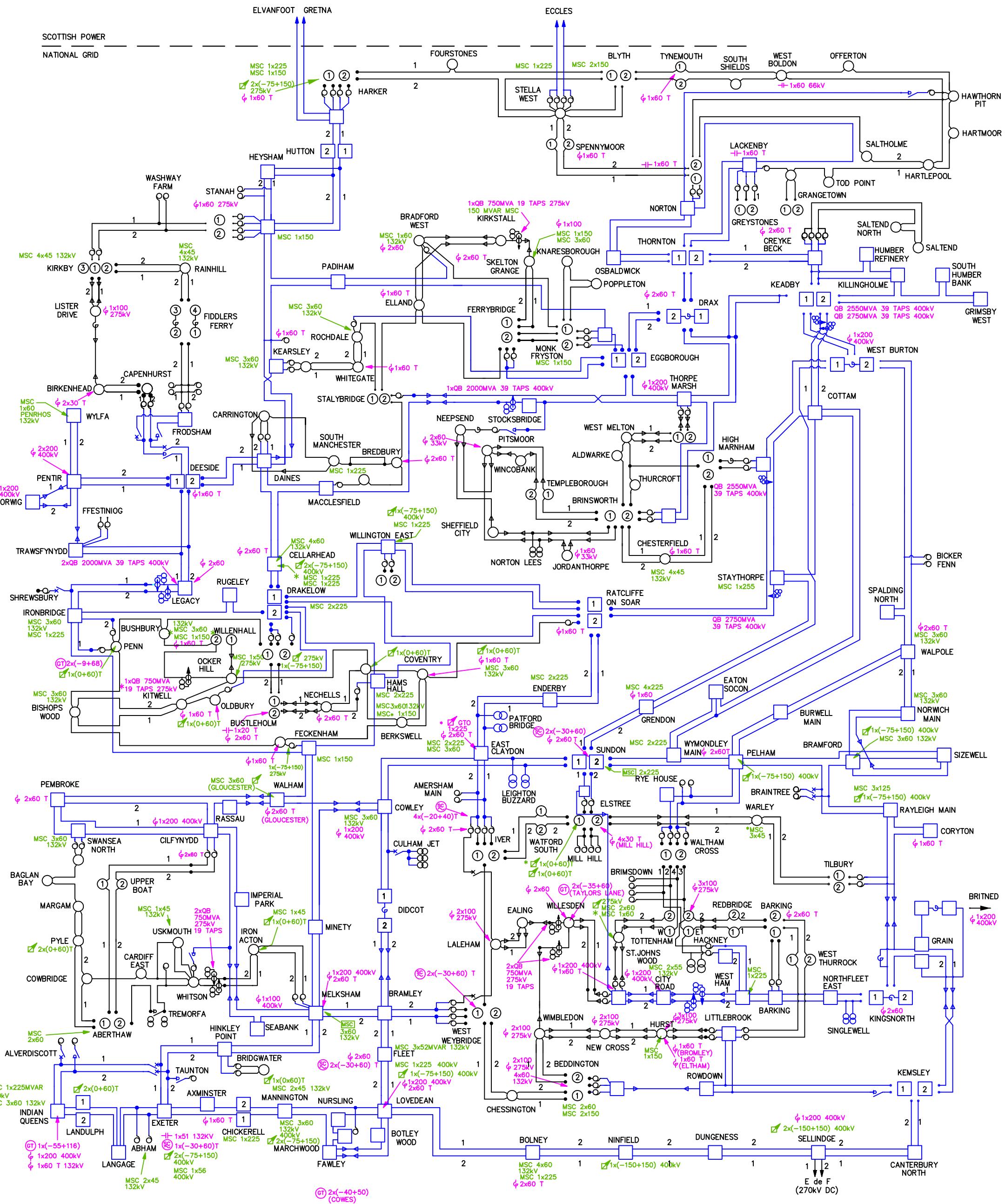


GB SYS FIG. A.4.2. NGET GENERATION USE OF SYSTEM TARIFF ZONES (ELECTRICAL) 2009/10



GB SYS. FIG. A.4.3

NET REACTIVE COMPENSATION PLANT – 2009/10



GB SYS FIG. A.4.4. NGET TRANSMISSION BOUNDARIES AND SYS STUDY ZONES – 2015/16

