

UK Future Energy Scenarios 2013 Workshop



October 2013

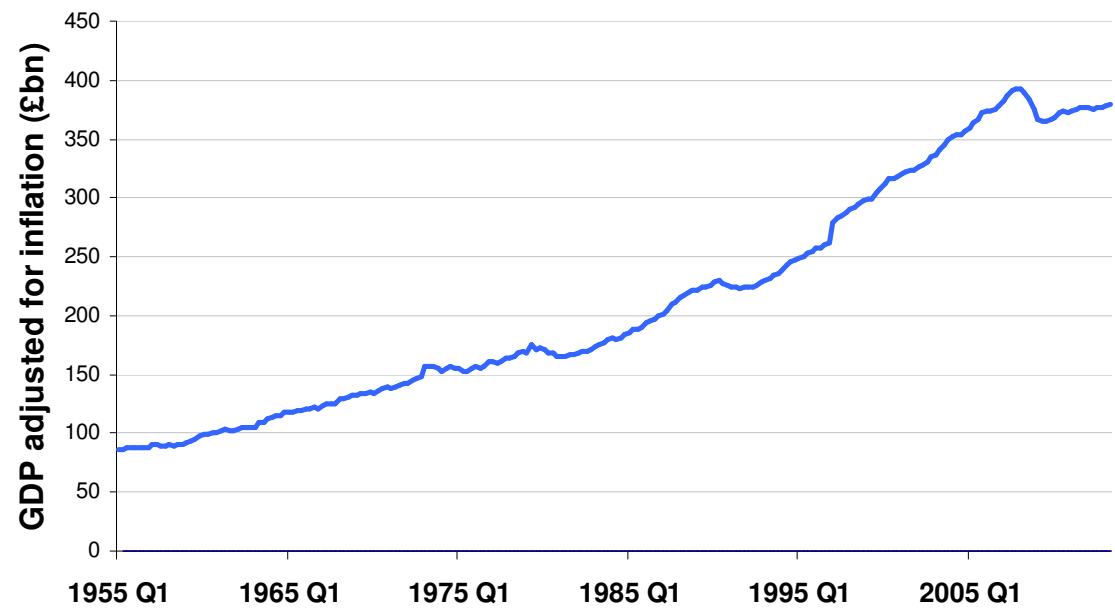
Why scenarios?

Political Uncertainty



Why scenarios?

Economic Uncertainty



Why scenarios?

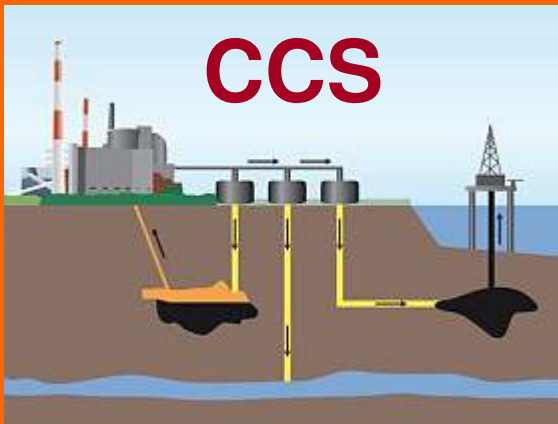
Social Uncertainty



Why scenarios?

Technology Uncertainty

Known unknowns



Unknown unknowns



Why scenarios?

Political Uncertainty

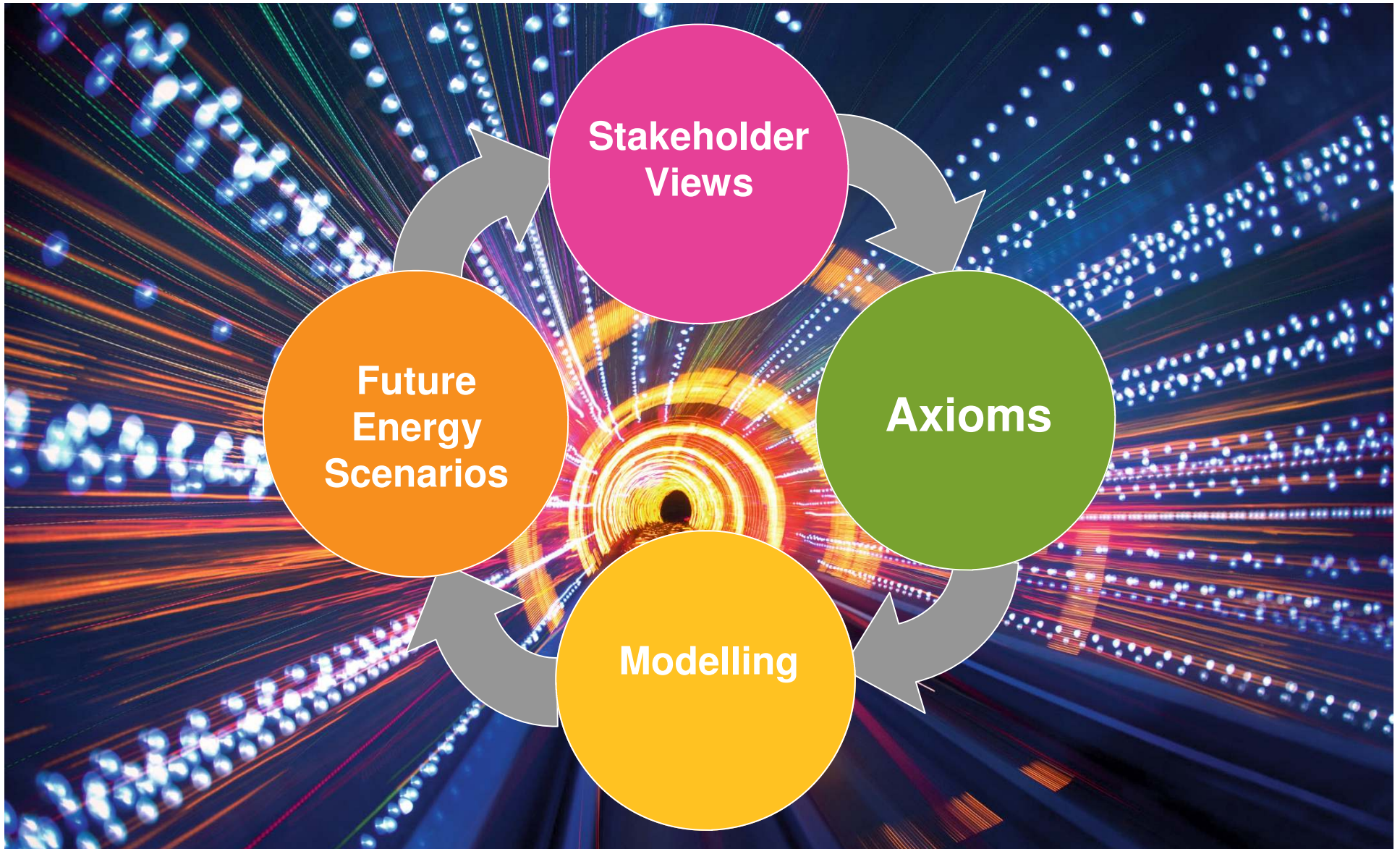
Social Uncertainty

Economic Uncertainty

Technology Uncertainty

There are many possible futures...

How do we create our scenarios?



Our 2103 Axioms



What's changed?

Accelerated Growth retired

Axioms updated & amended

Demand analysis improved

New case studies



Our 2013 Future Energy Scenarios...

Gone Green

has been designed to meet the UK's environmental targets; 15% of all energy from renewable sources by 2020, greenhouse gas emissions meeting the carbon budgets out to 2027, and an 80% reduction in greenhouse gas emissions by 2050

Gone Green Sensitivities

Case Study 1: High Offshore Wind
Case Study 2: High Onshore Wind

Slow Progression

where developments in renewable and low carbon energy are comparatively slow, and the renewable energy target for 2020 is not met. The carbon reduction target for 2020 is achieved but not the indicative target for 2030

Slow Progression Sensitivities

Case Study 1: High CCGT, Low Coal
Case Study 2: High Coal, low CCGT/Biomass

Our 2013 Future Energy Scenarios...

Gone Green

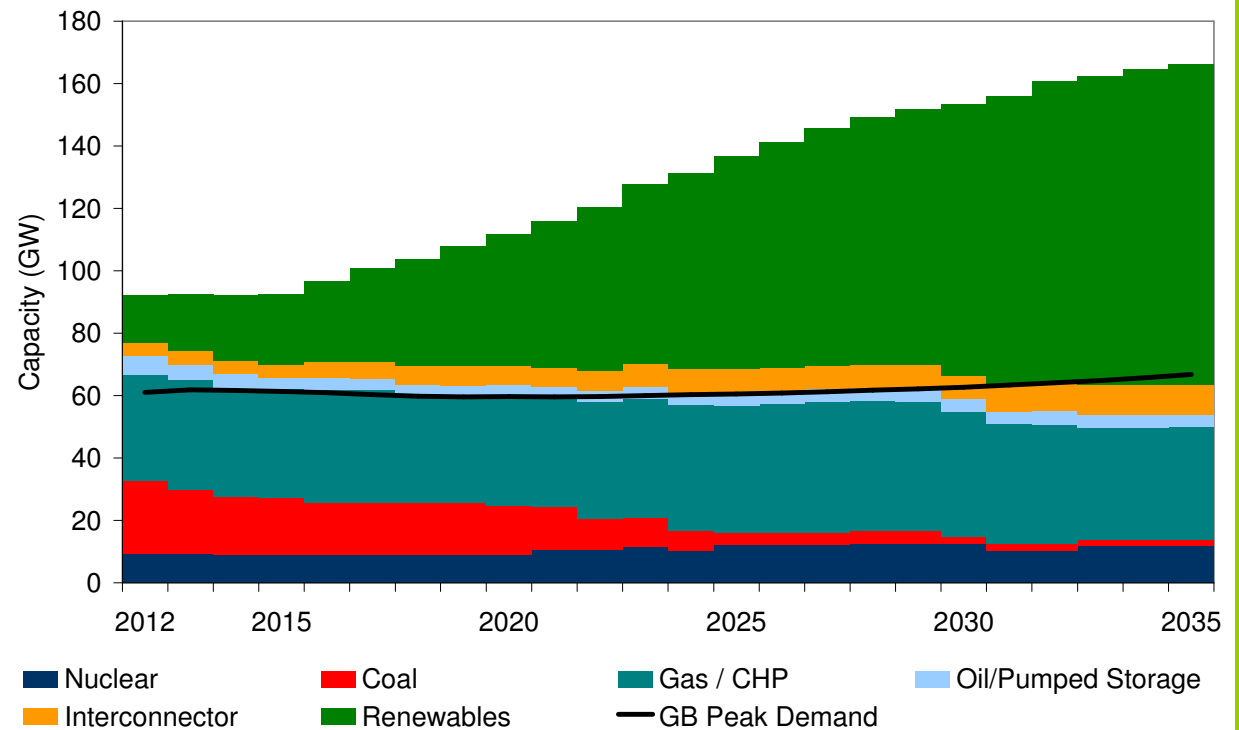
Decarbonising electricity
Decarbonise heat and
transport



Our 2013 Future Energy Scenarios...

Gone Green

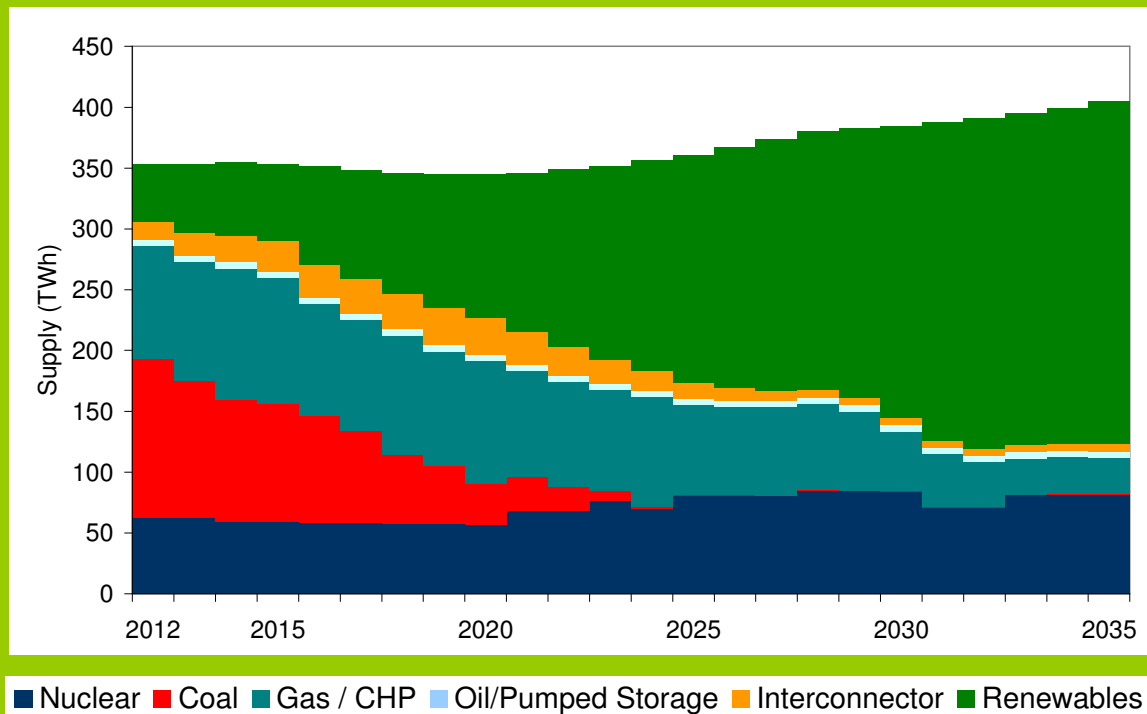
Generation capacity



Our 2013 Future Energy Scenarios...

Gone Green

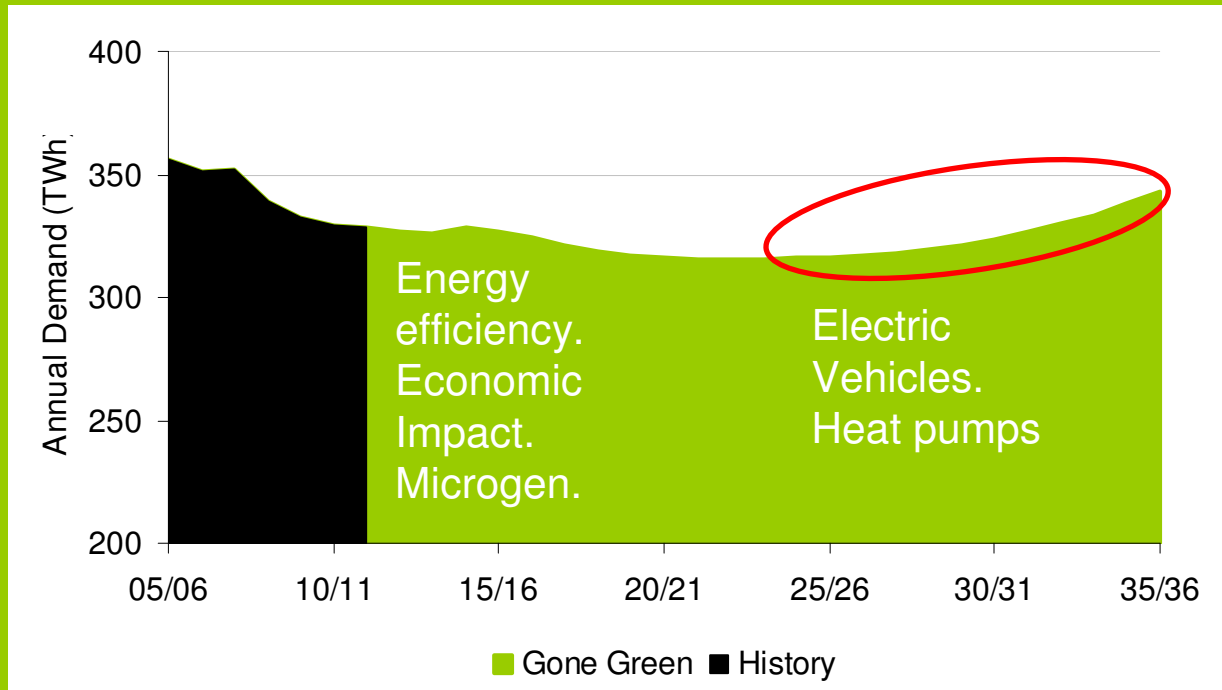
Power supply



Our 2013 Future Energy Scenarios...

Gone Green

Power demand

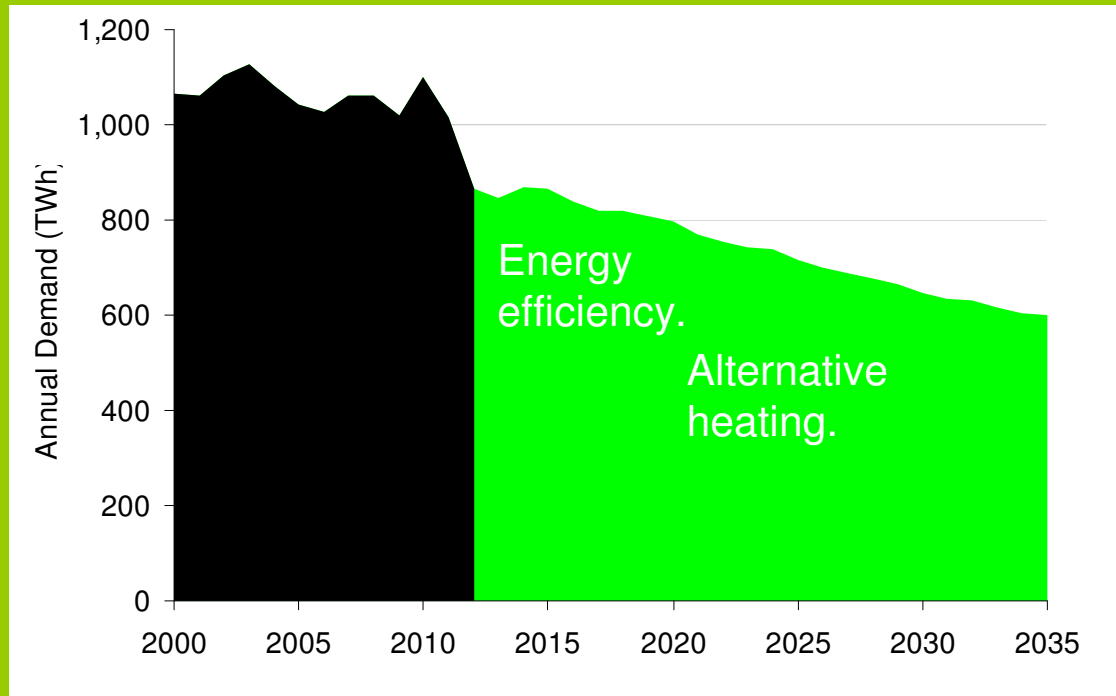


Our 2013 Future Energy Scenarios...

Gone Green



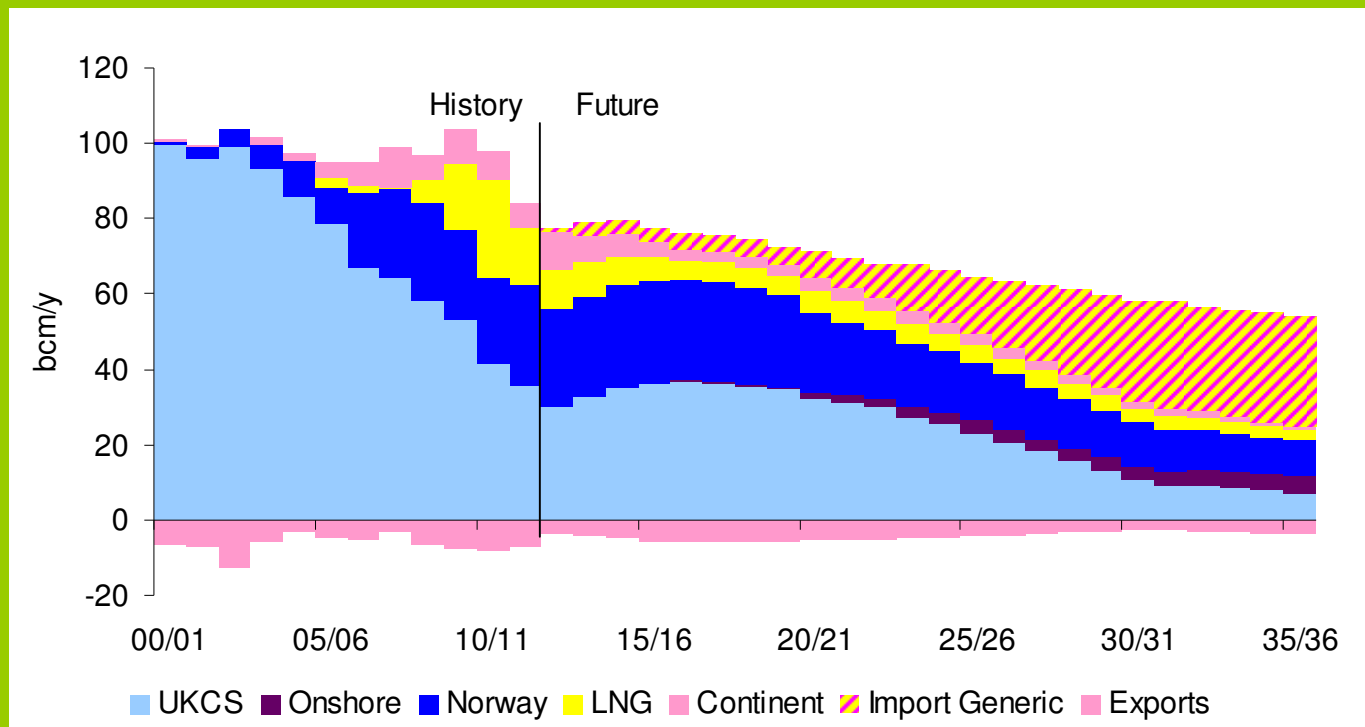
Annual gas demand



Our 2013 Future Energy Scenarios...

Gone Green

Annual gas supply



Our 2013 Future Energy Scenarios...

Slow Progression

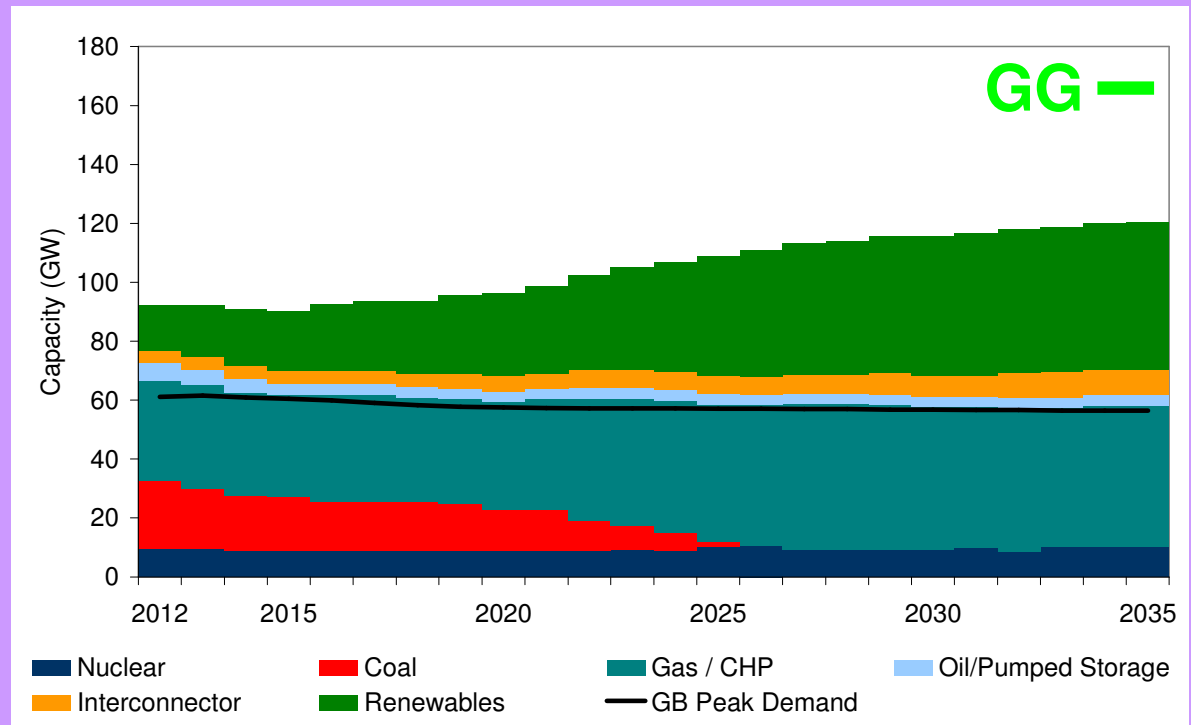
Slower decarbonising
of electricity
Slower decarbonising of
heat and transport



Our 2013 Future Energy Scenarios...

Slow Progression

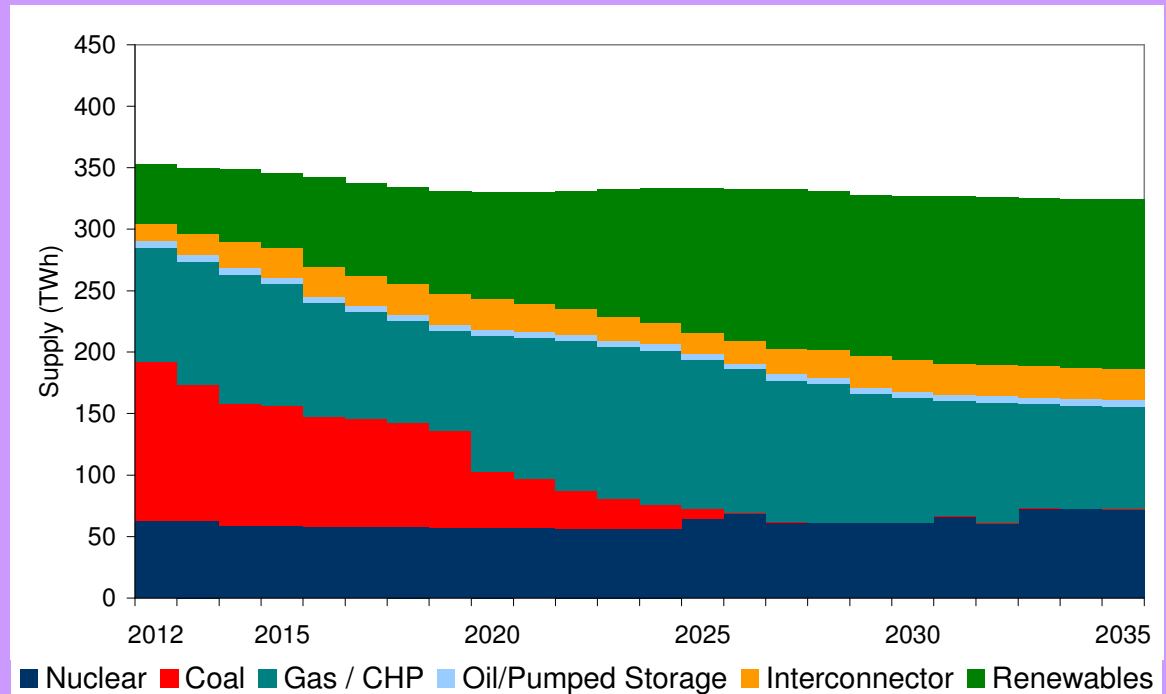
Generation capacity



Our 2013 Future Energy Scenarios...

Slow Progression

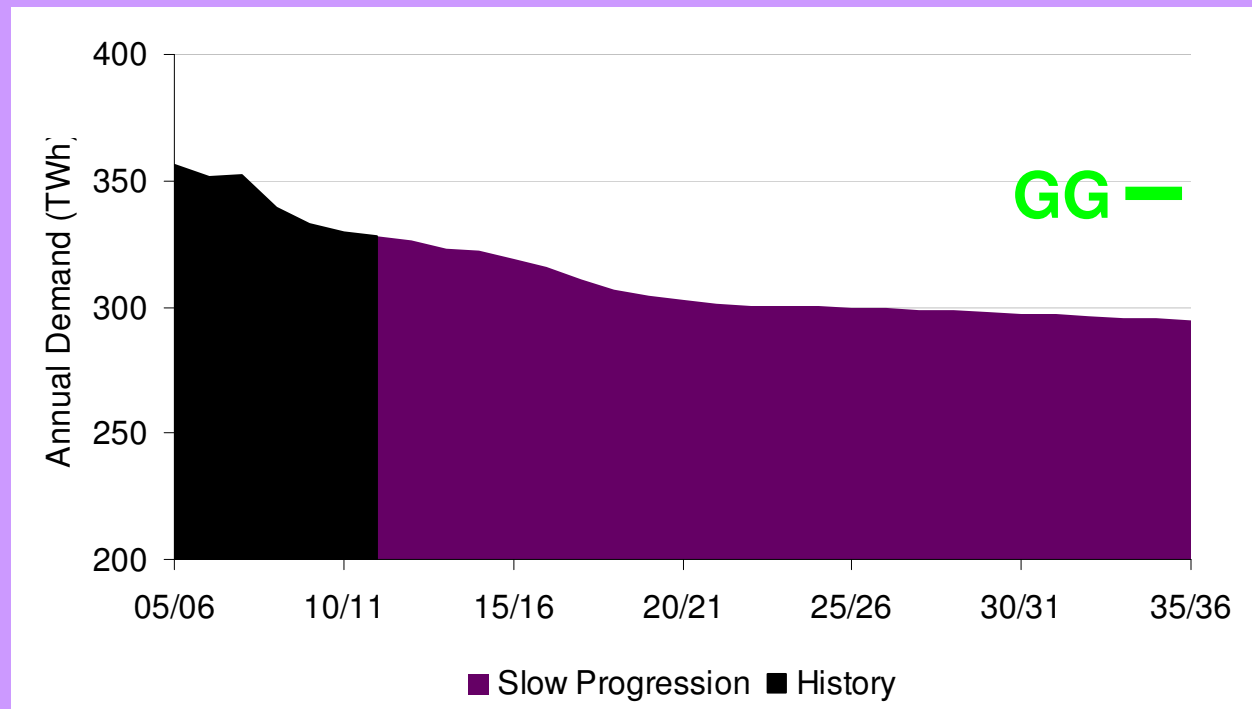
Power supply



Our 2013 Future Energy Scenarios...

Slow Progression

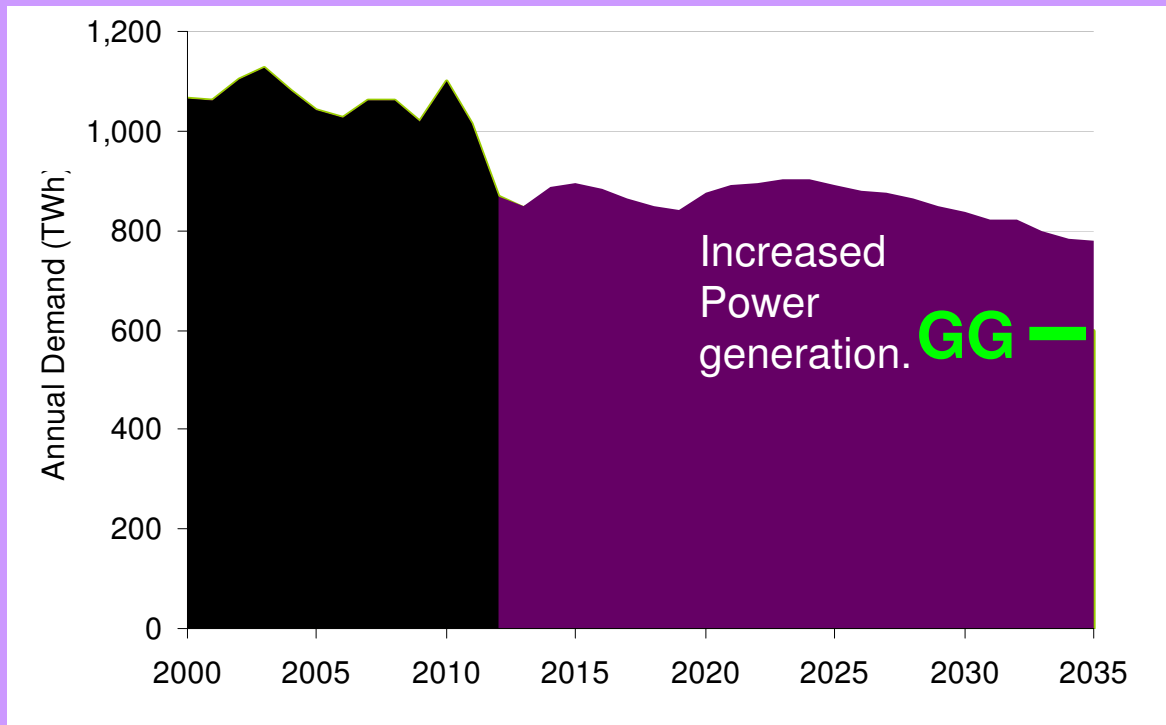
Power demand



Our 2013 Future Energy Scenarios...

Slow Progression

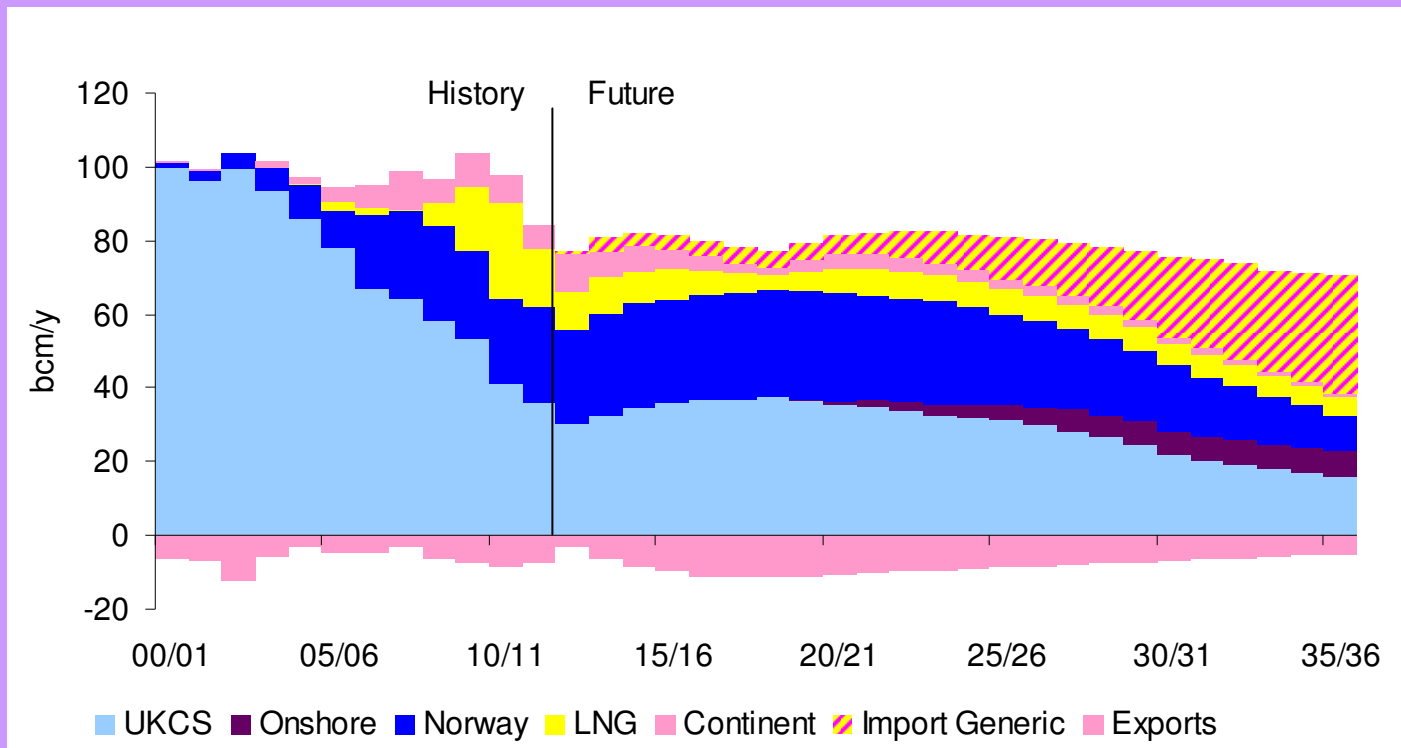
Annual gas demand



Our 2013 Future Energy Scenarios...

Slow Progression

Annual gas supply



Thank you

