Energy Supply – Power Generation & Gas Supply







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Power Generation – Key Axioms



Renewable targets met

Significant renewables, fossil fuels become increasingly marginalised

Higher carbon price, similar fuel price assumptions

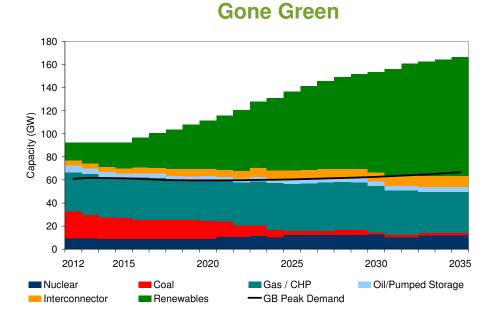
Slow Progression

Renewable targets missed

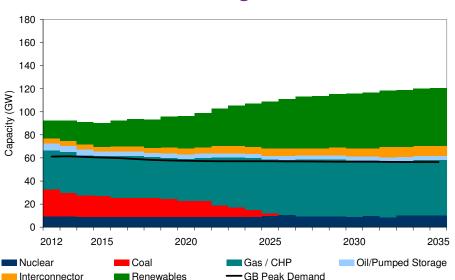
Appreciable renewables, gas becomes default source of generation

Lower carbon price, similar fuel price assumptions

Power Generation - Capacity (GW)



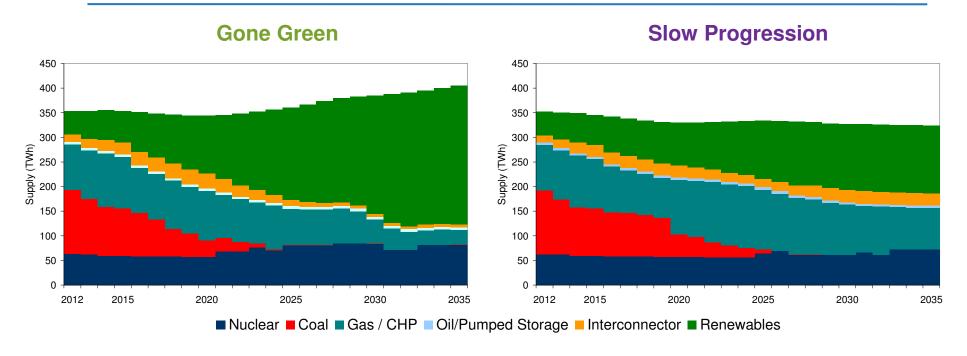
Slow Progression



- Renewable generation significant new build rates, notably wind
- **Nuclear new plant coincides with existing** plant closures
- Gas limited new build near term, increased build primarily for 'back-up' thereafter, some CCS
- Coal gradual closures, some CCS
- Interconnection some increase

- Renewable generation appreciable new build rates
- Nuclear delayed deployment offset by life extensions
- Gas limited new build near term, increased build for thereafter
- Coal gradual closures
- Interconnection some increase

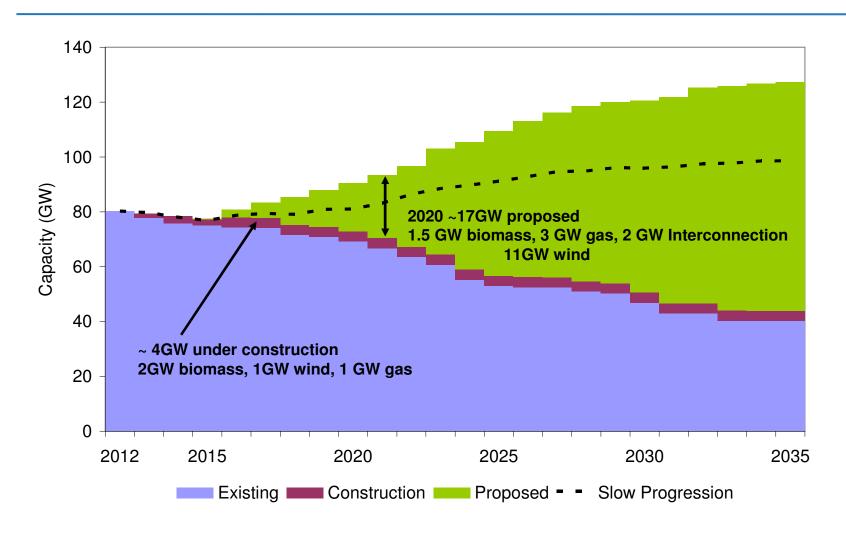
Power Generation – Supply (TWh)



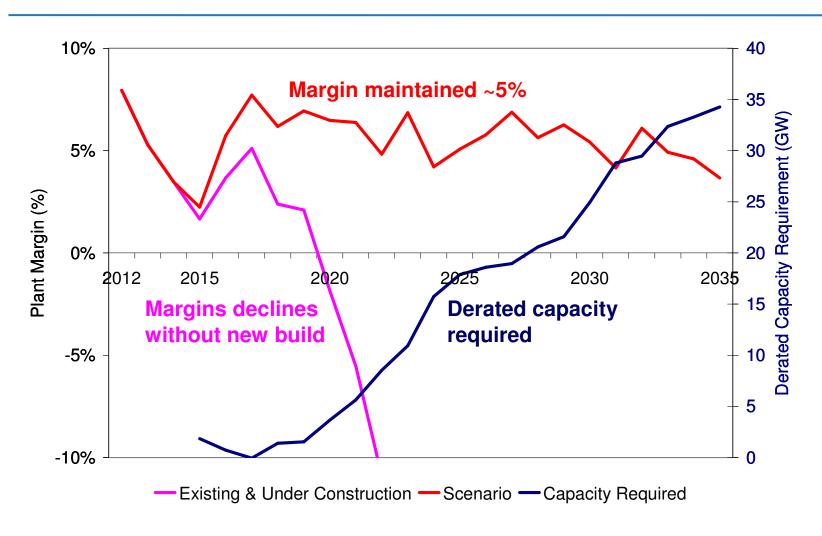
- Sustained build-up of renewables, notably wind
- Increased nuclear
- Gas and coal CCS
- Gas plays a balancing role
- Less coal use due to high carbon price

- Gradual build up of renewables
- Slight increase in nuclear
- No CCS
- Gas fills the gap
- Increased coal use until closures due to low carbon price

Gone Green – Build Rate (Transmission)



Gone Green – Plant Margin (Transmission)



Gas Supply – Key Axioms



Global gas market uncertainty

Lower UKCS and Norway

Uncertainty in both LNG and Continental supply / markets

Increased role for biogas

Increased need for flexible supply / storage

Slow Progression

Gas role in global energy markets enhanced

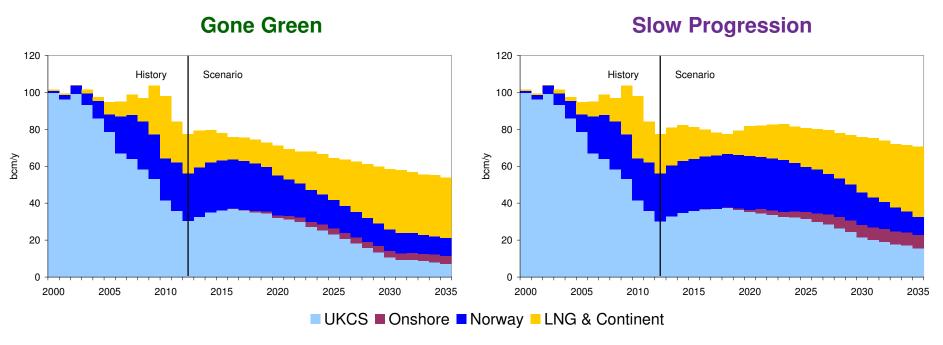
UKCS and Norwegian upside

Uncertainty in both LNG and Continental supply / markets

Increased role for shale (high case as a sensitivity)

SoS concerns promotes seasonal storage

Gas Supplies – Annual (bcm)



- Lower demand dictates future UK supply needs
- Some 'renaissance' in UKCS reduces imports
- Norway remains a significant exporter to UK
- Considerable uncertainty over LNG and Continental imports, both scenarios reflect this
- Onshore biogas in Gone Green, shale in Slow Progression with upside sensitivity
- Increased role of storage / flexible supplies assumed in both scenarios