

Value of nuclear power to the UK

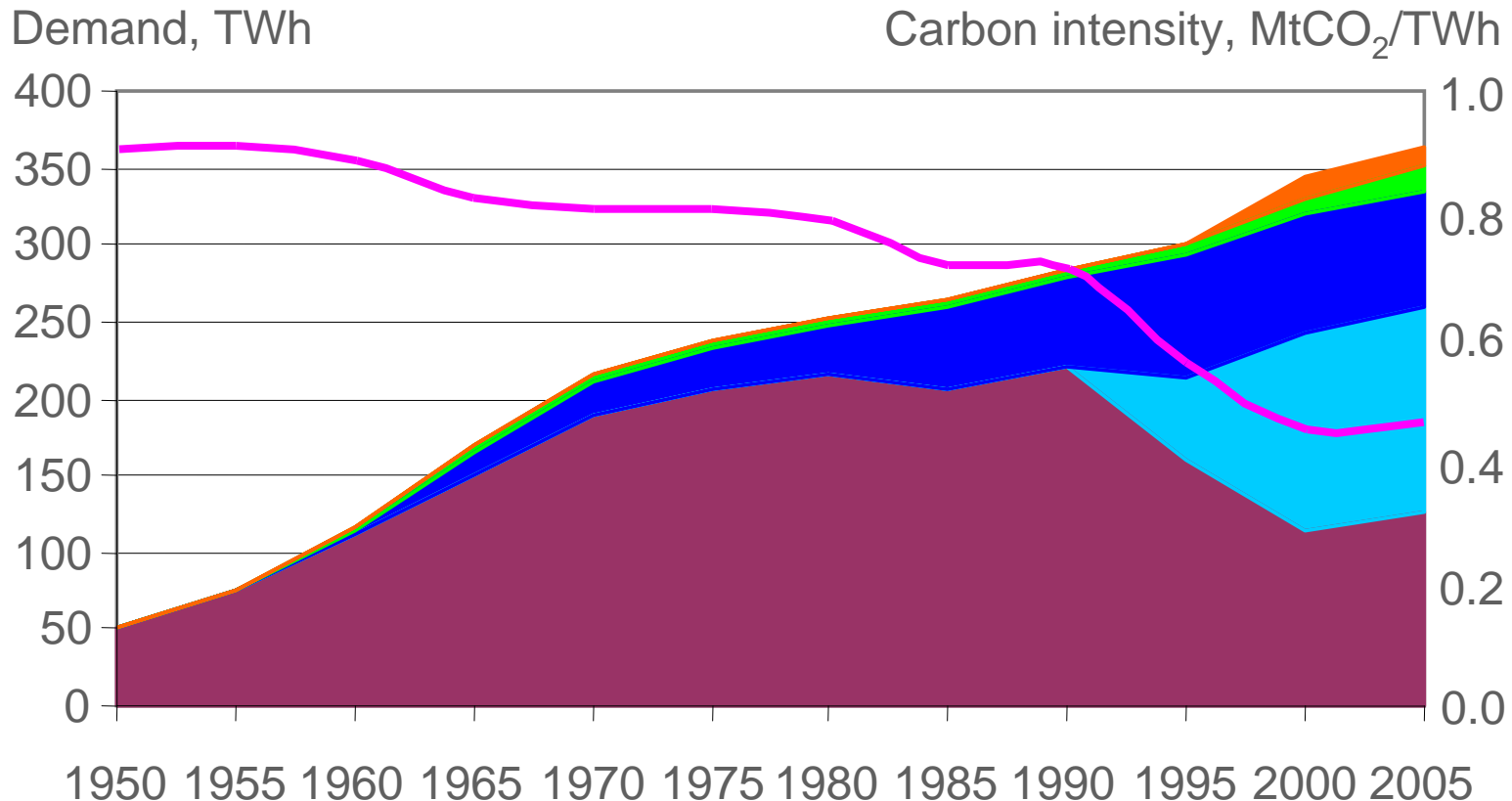
**Bill Coley, CEO
British Energy Group**

World Nuclear Association 33rd Annual Symposium,

3-5th September 2008

Queen Elizabeth II Conference Centre, London

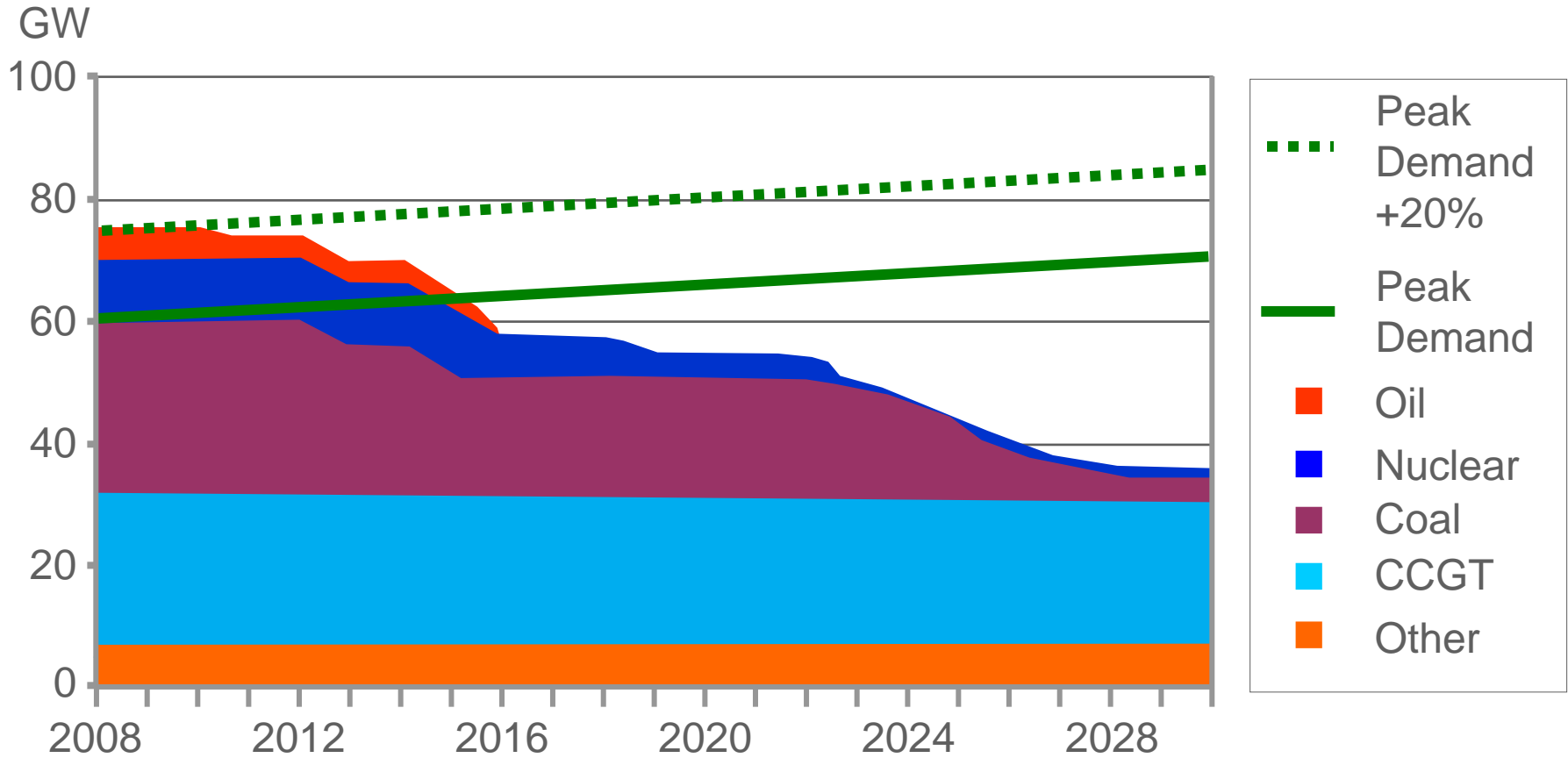
Electricity in the UK



Imports Renewables Nuclear Coal Gas Carbon intensity

Sources: Electricity demand from DUKES; GDP from UK National Statistics

Potential electricity gap in the UK may emerge



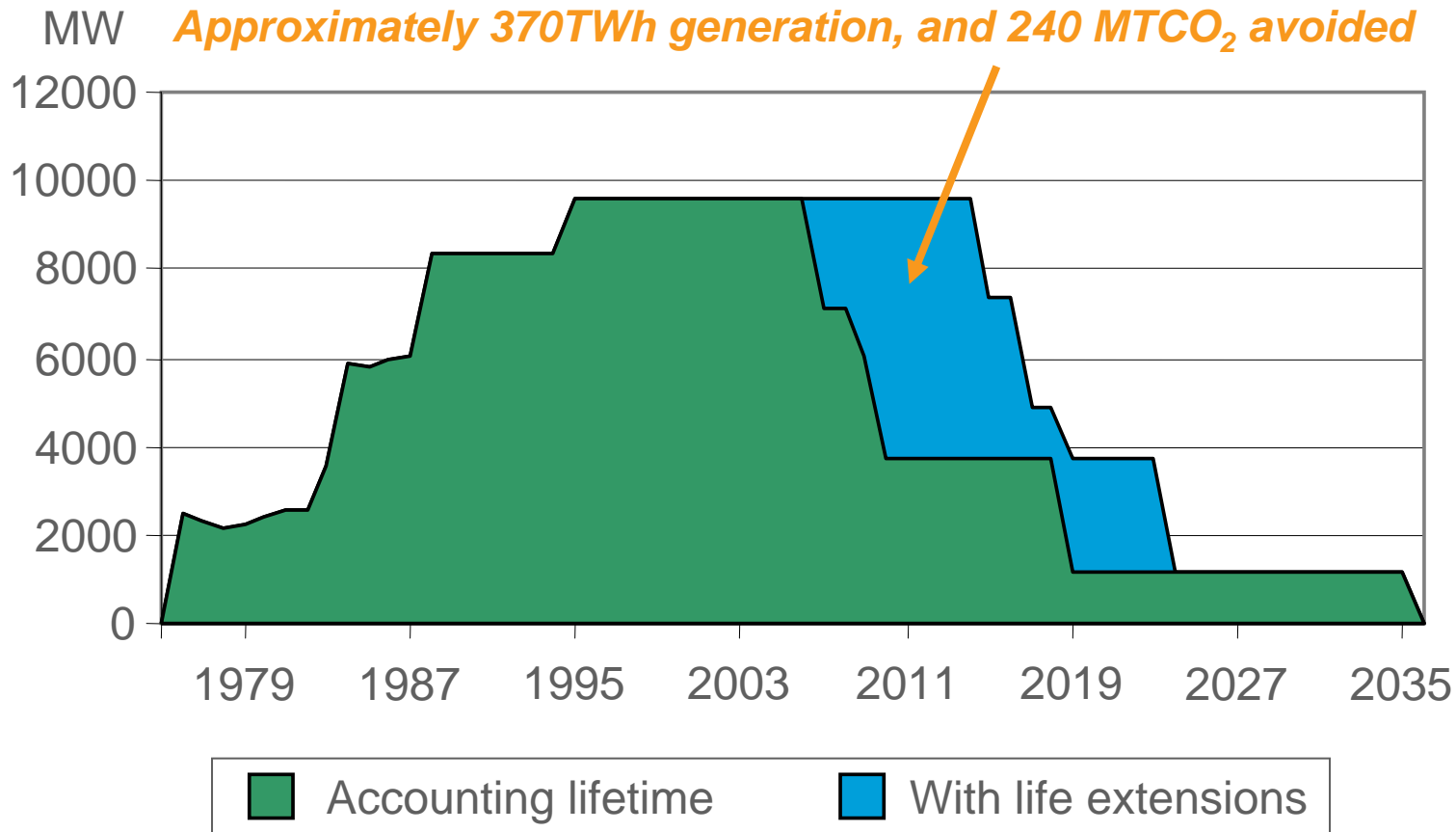
Source-E.ON UK

Sizewell B illustrates value of nuclear



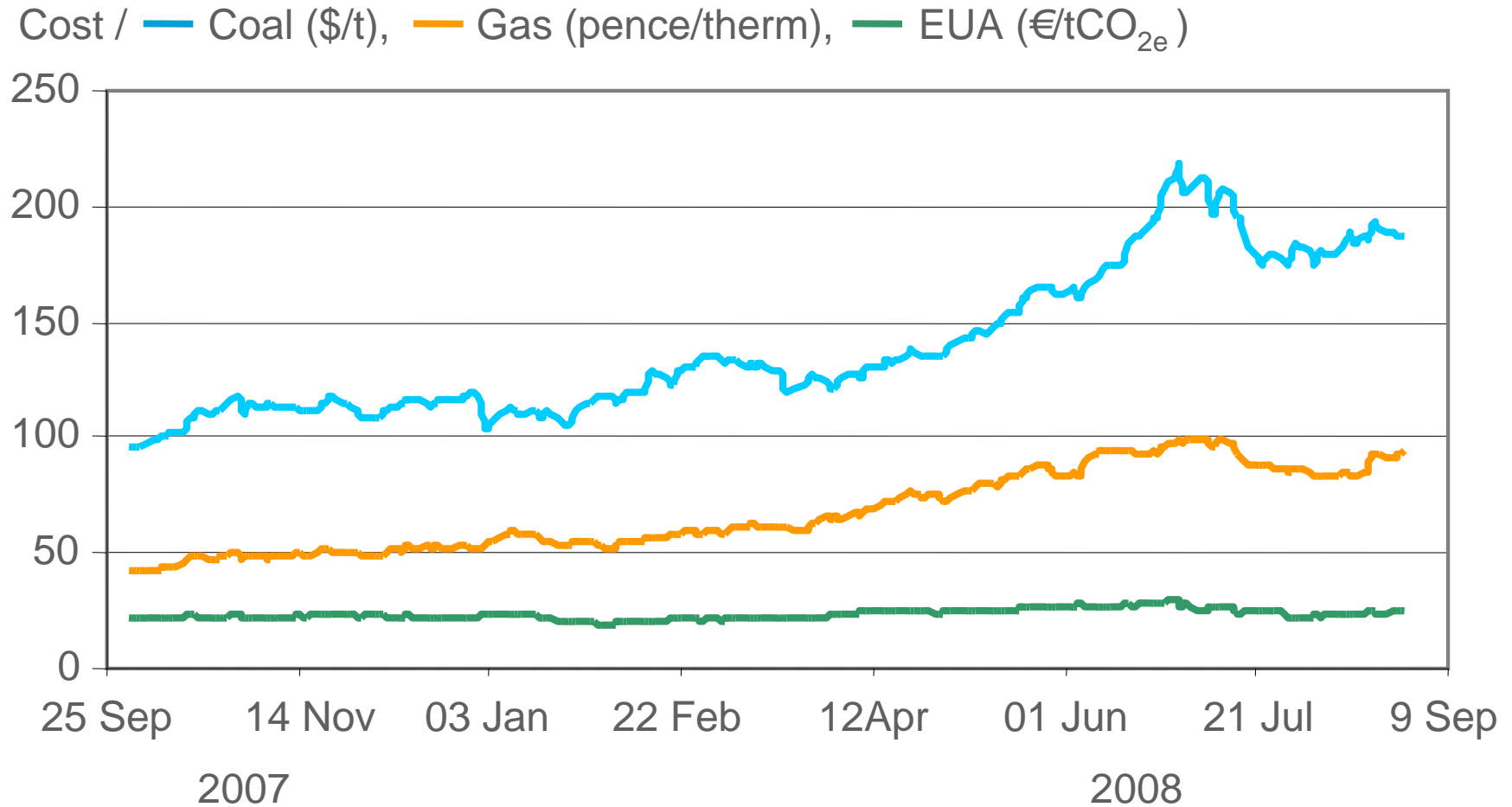
- > **Basic facts**
 - > 1188 MW
 - > Started operating 1995
- > **Recent operation**
 - > 516 day breaker to breaker run
- > **Some performance metrics over FY 07/08**
 - > 94% unit capability factor (cf 87% WANO median)
 - > Collective dose of 0.19 Man-Sieverts per unit (cf 0.62 WANO median)
- > **For the FY 2007/08**
 - > 9.8 TWh output
 - > 6.6 MtCO₂ avoided

The importance of life extensions



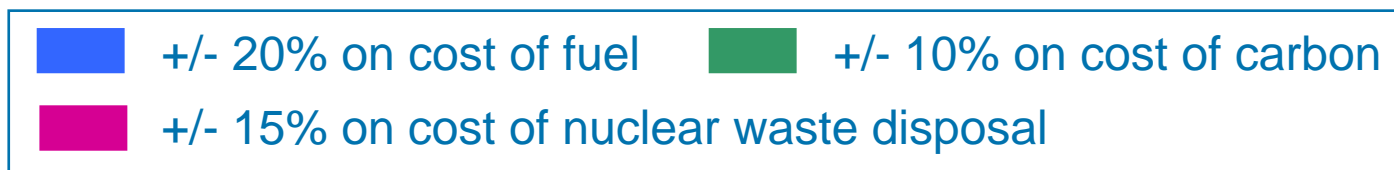
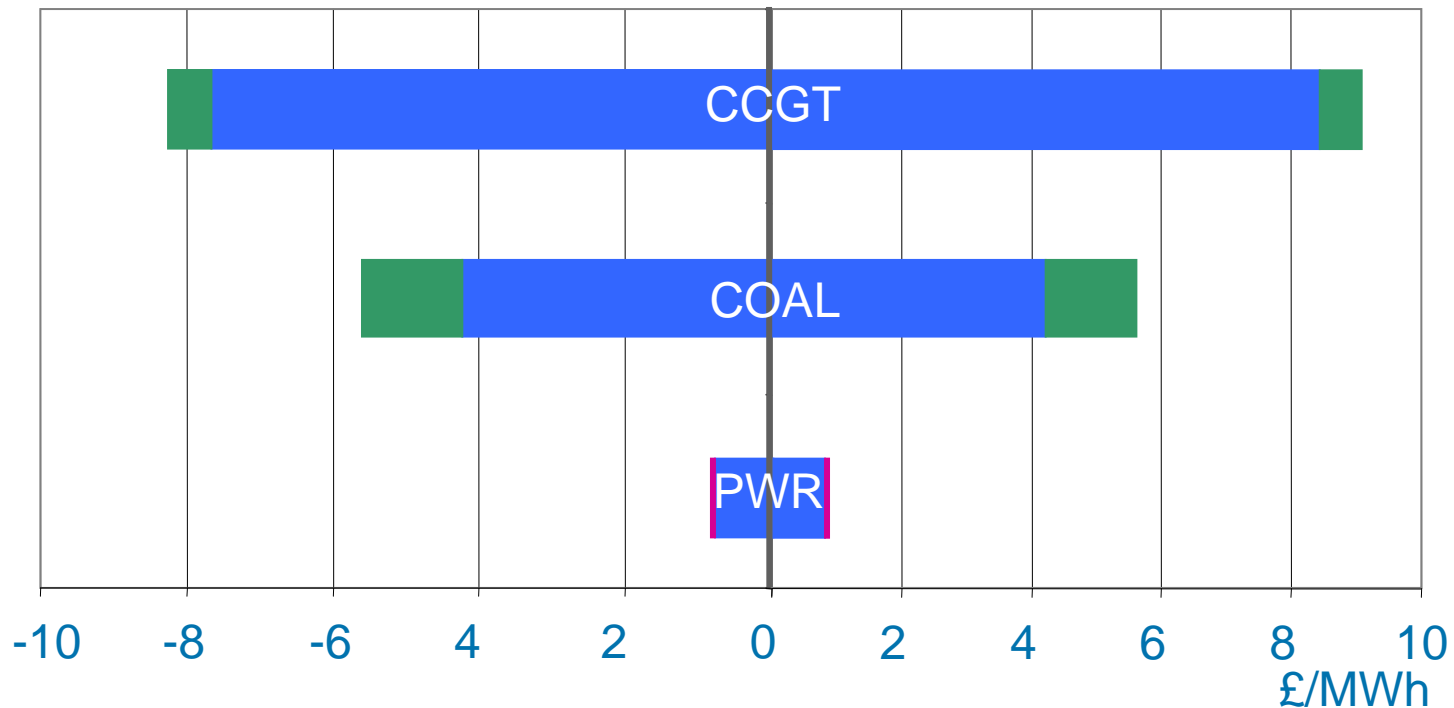
Source – Data from British Energy Group plc

Increasing volatile fossil markets



Notes: EUA – European Union Allowances, CO_{2e} – carbon dioxide equivalent

Nuclear less volatile than fossil generation



Note: Analysis based on BERR Energy Review 2006; average coal (£67/t), gas (65 pence/therm), carbon (€23) prices for the period September 2007 to August 2008; nuclear waste disposal cost is £0.4/MWh

Nuclear a responsible option for the future



“Future generations would not look kindly on us if the window of opportunity to build new nuclear stations was open to us, and we - government and industry - did not rise to the challenge”