

North East Planning Seminar

Gemma Grimes

**Head of Onshore Renewables
RenewableUK**

Today's line up

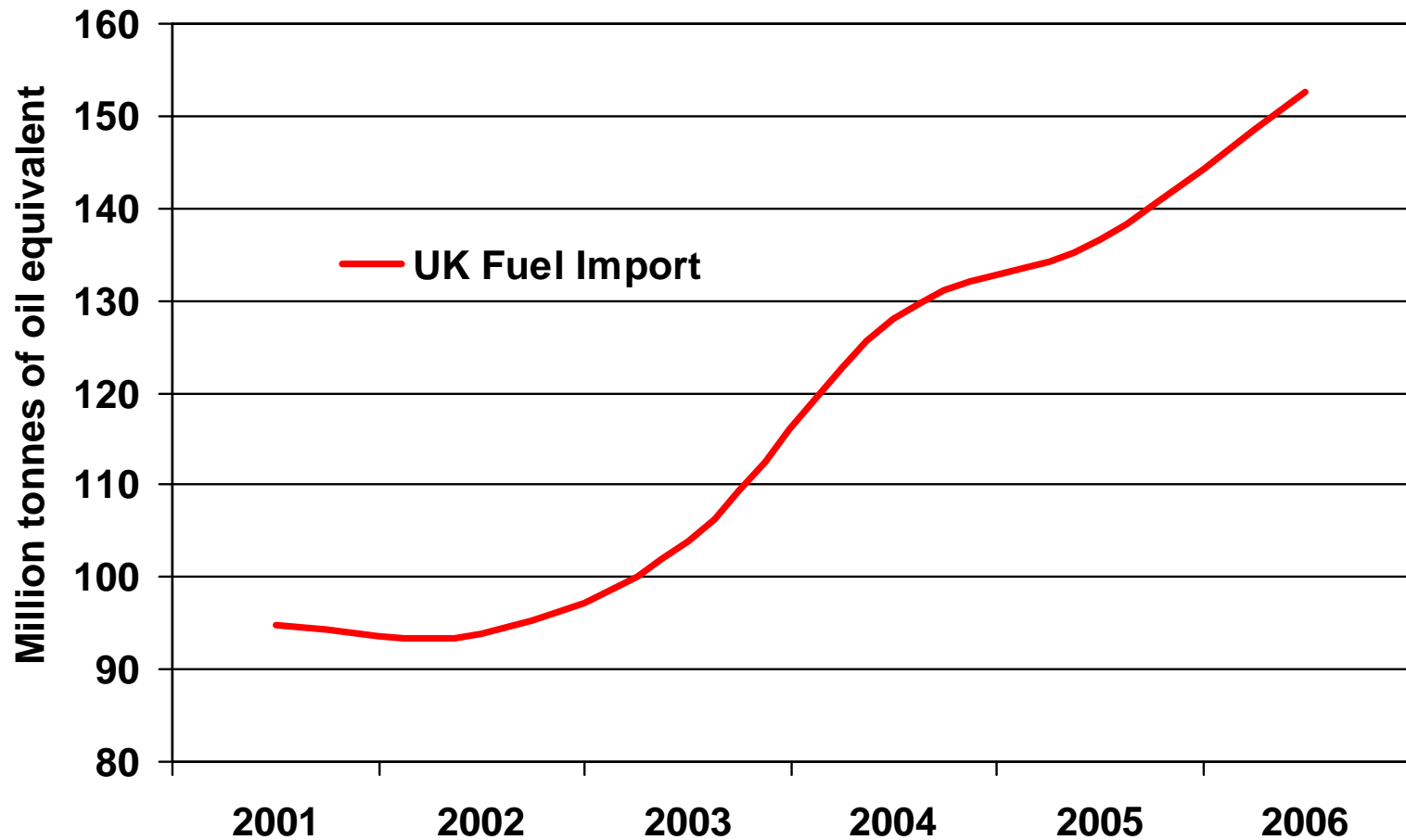
- **Morning**

- Overview – Gemma Grimes
- Regional perspective – Adrian Smith
- Developer perspective – Paul Hunt
- Small wind overview – Ian Brenkley
- Health & Safety – Phil Martin

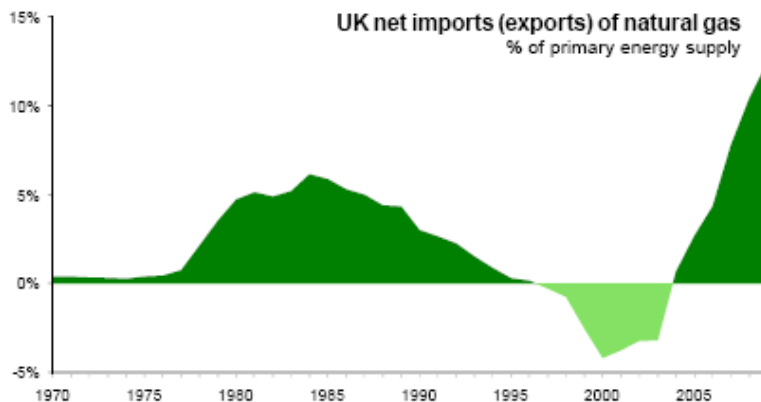
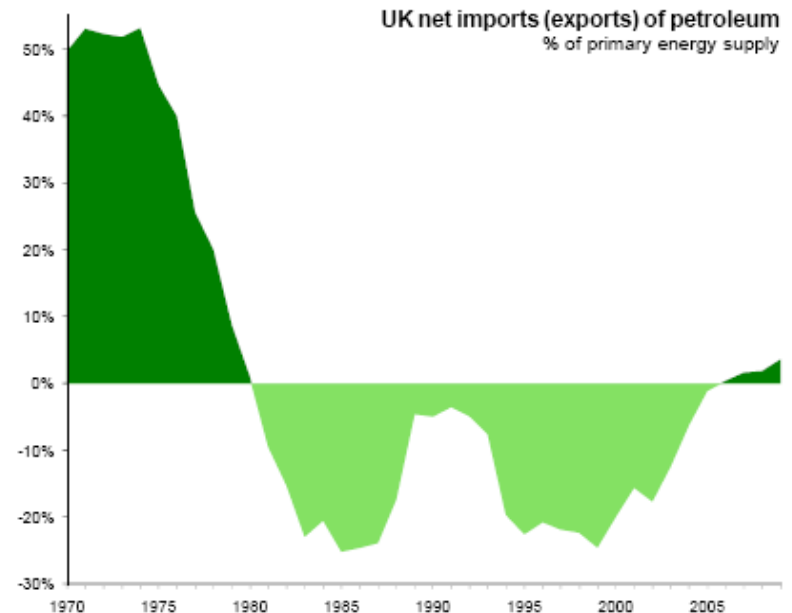
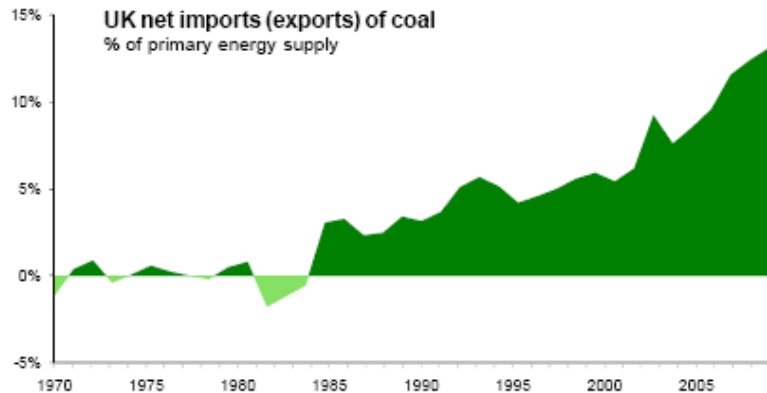
- **Afternoon**

- Panel debate – Adam Bell, Ossie Johnson, Philip Lewis, John Everett, Paul Hunt

Security of Supply



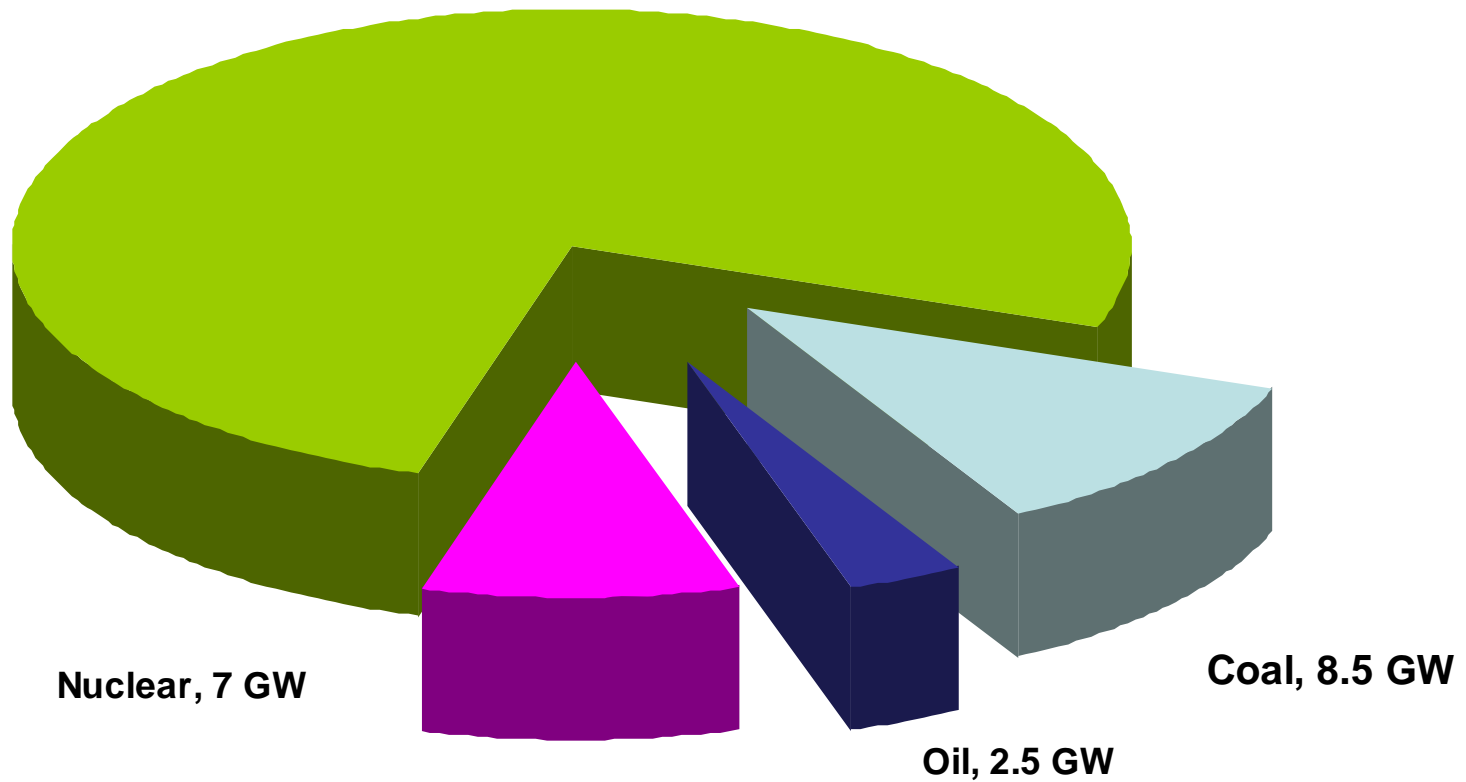
Energy Imports / Exports



**In 2008, exports were
£34m, imports £48m**

House of Commons Library 2010

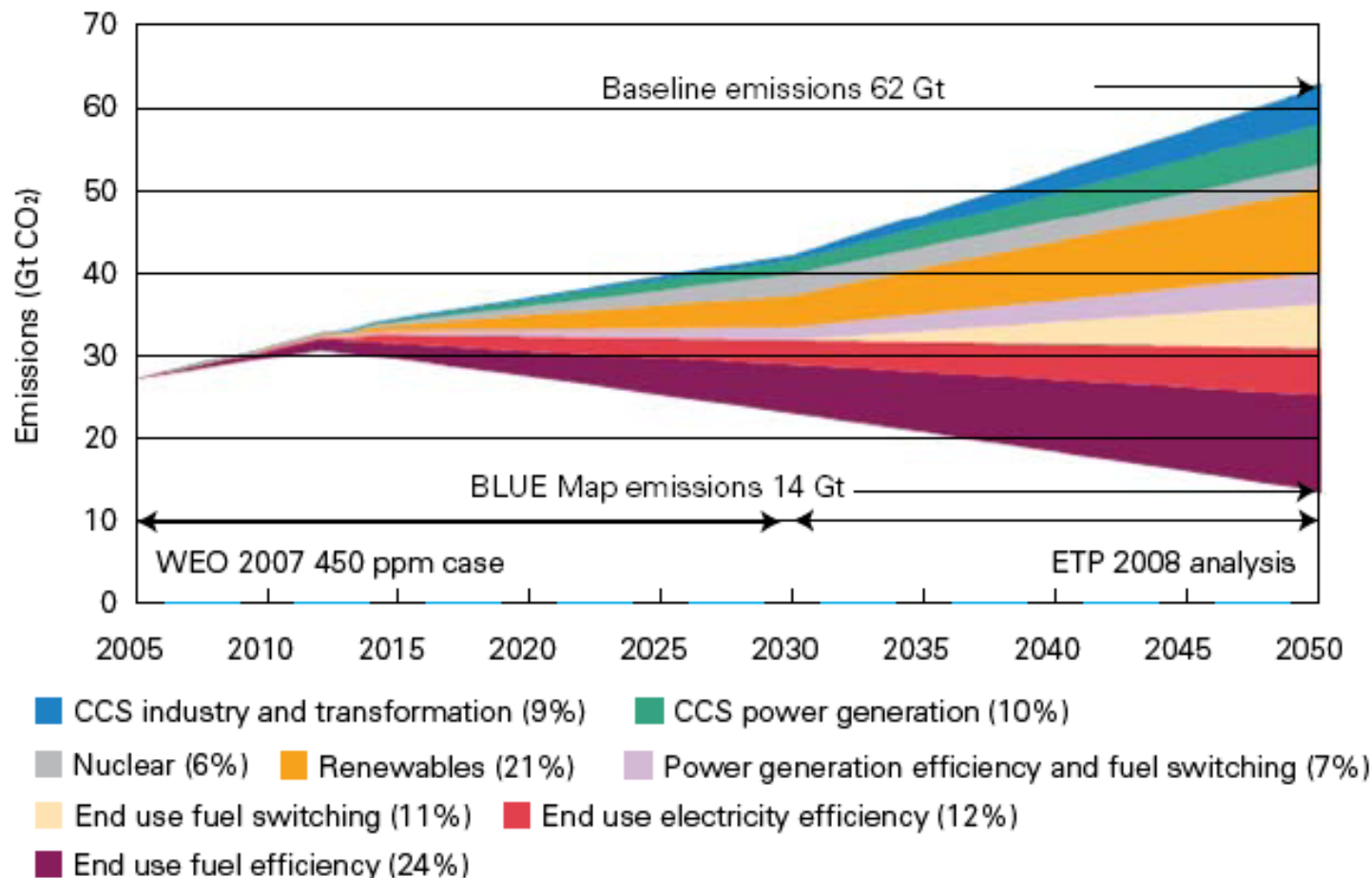
Energy Gap



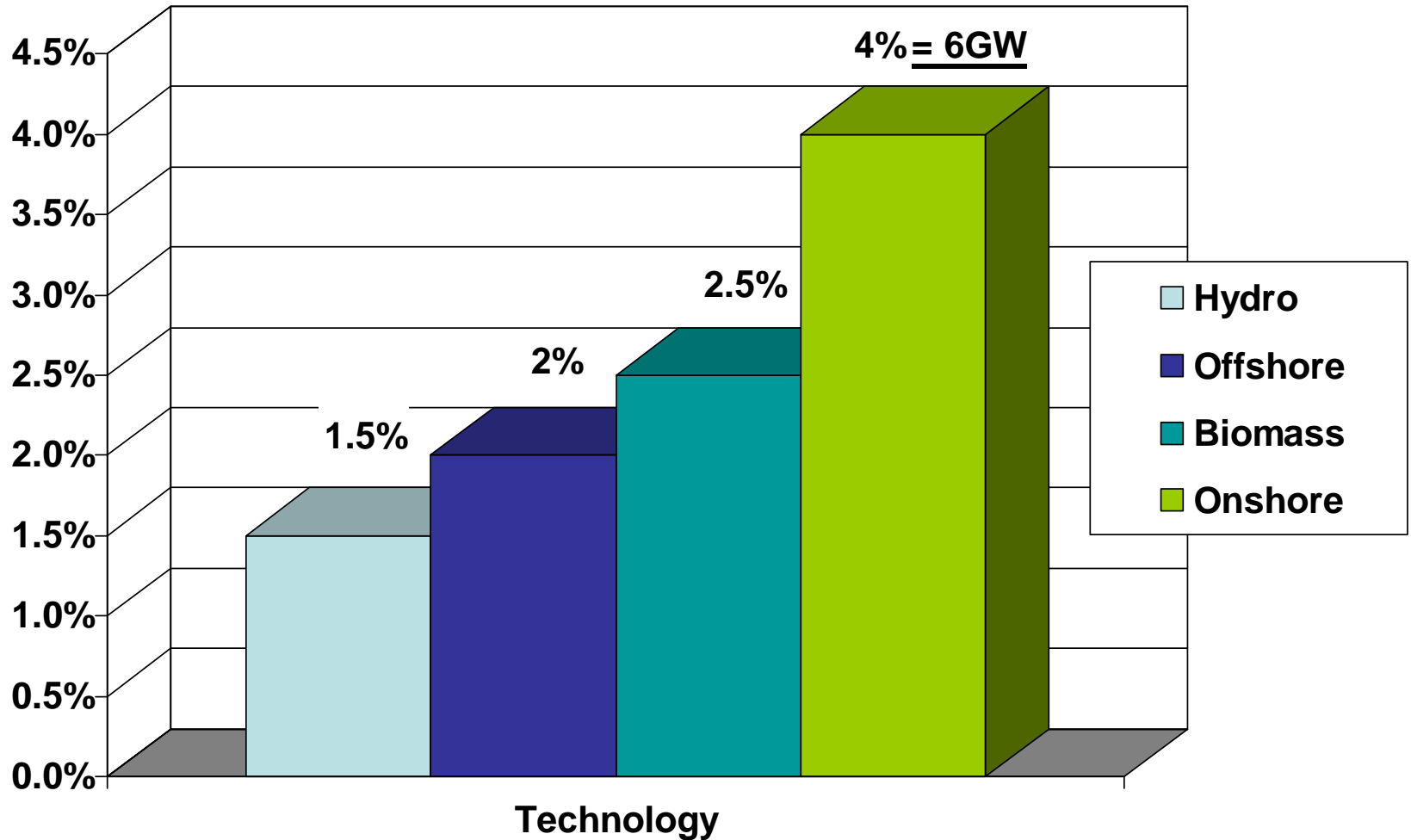
Carbon Reduction

Chart 1.1:

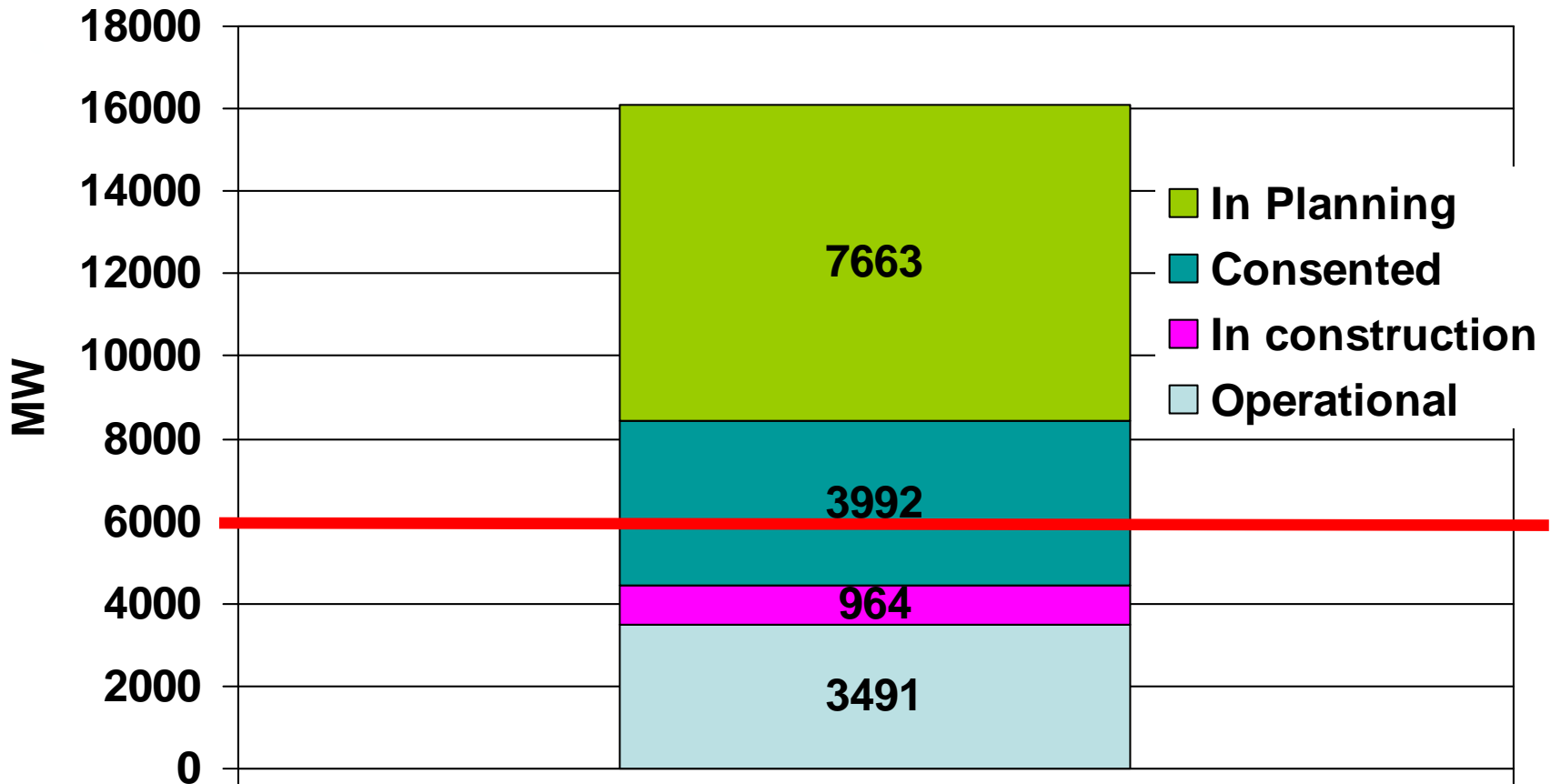
Contribution of global emission reduction options 2005-2050⁷



10% Renewable Electricity



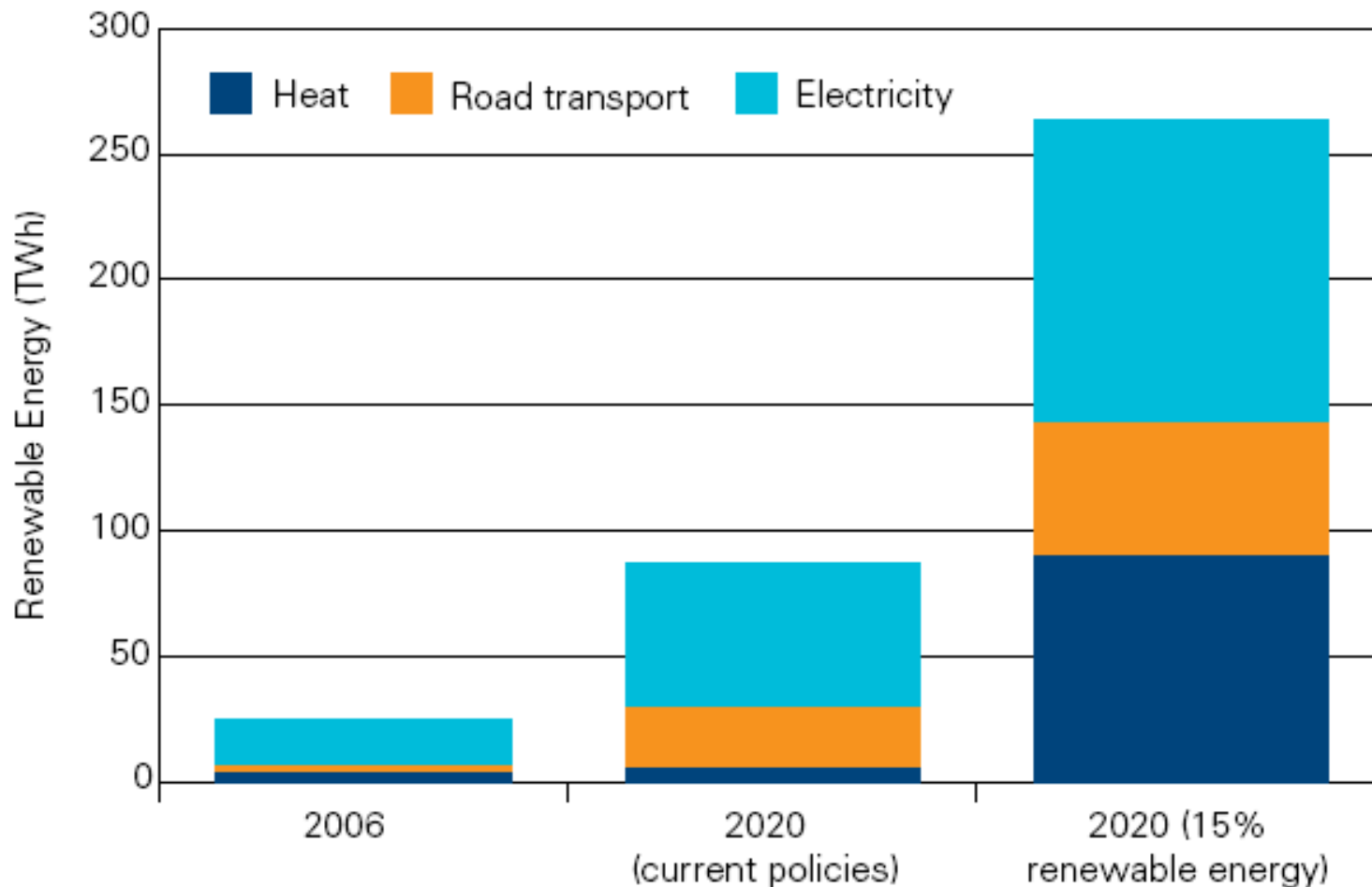
Progress 6GW



EU & Government Targets

- **UK 2010: 10% renewable electricity**
- **EU 2020: Renewable Energy Directive/Fuel Quality Directive 2009**
 - 20% Renewable energy across EU
 - 15% Renewable energy in UK
 - **XX** Renewable heat
 - 10% Renewable transport fuel (6% GHG reduction)
- **UK 2050: 80%+ GHG reduction**

2020: Challenge on a different scale

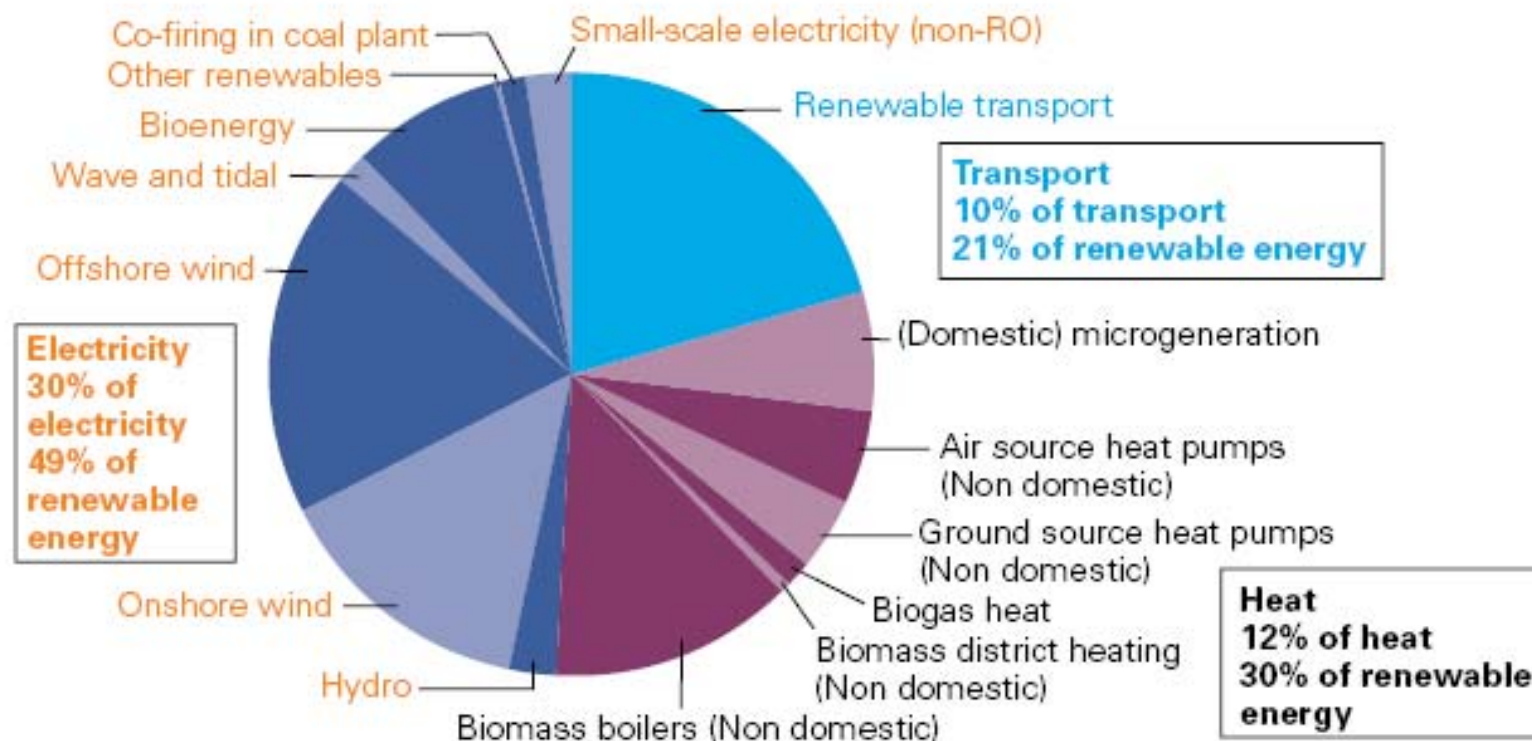


Source: BERR analysis

2020: Potential Energy Breakdown

Chart 2:

Illustrative mix of technologies in lead scenario, 2020 (TWh)

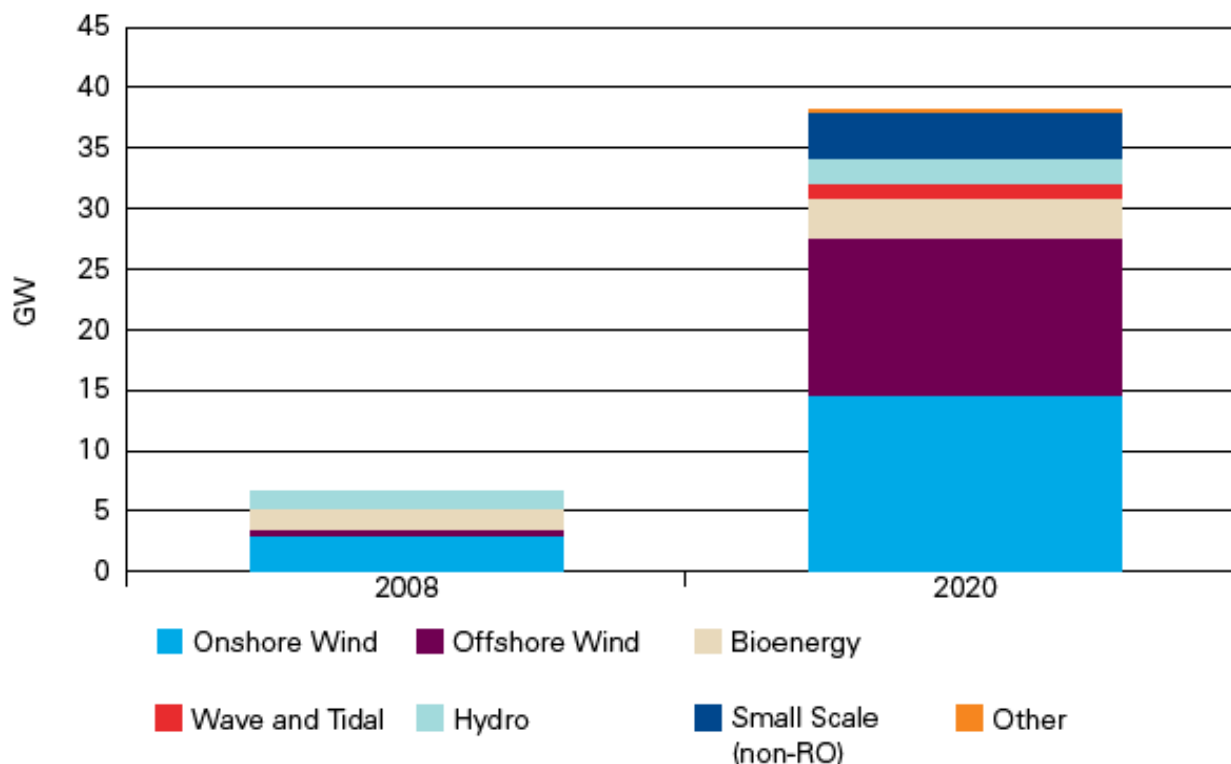


Source: DECC analysis based on Redpoint/Trilemma (2009), Element/Pöyry (2009) and Nera (2009) and DfT internal analysis

2020: Renewable Electricity Breakdown

Chart 2.4:

Renewable electricity technologies – comparison between 2008 and projected to 2020



Source: Energy Trends (June 2009) and DECC analysis based on Redpoint/Trilemma (2009) and Element/Pöyry (2009)

Note: Small-scale electricity not separately identified in 2008

Economic opportunities for UK

- £60 billion of private investment
- 60,000 – 70,000 UK jobs in manufacturing, operations & maintenance
- Modern turbine 3MW puts £100,000 into local economy every year through maintenance, community payments, rates and rents.

2020: Summary

- 15% of all energy from renewables (EU target)
- Renewable heat & transport starting at low base
- 30 - 40% renewable electricity by 2020
- Wind energy needs to deliver the lions share
- Wind energy will act as the catalyst for our green economy



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