



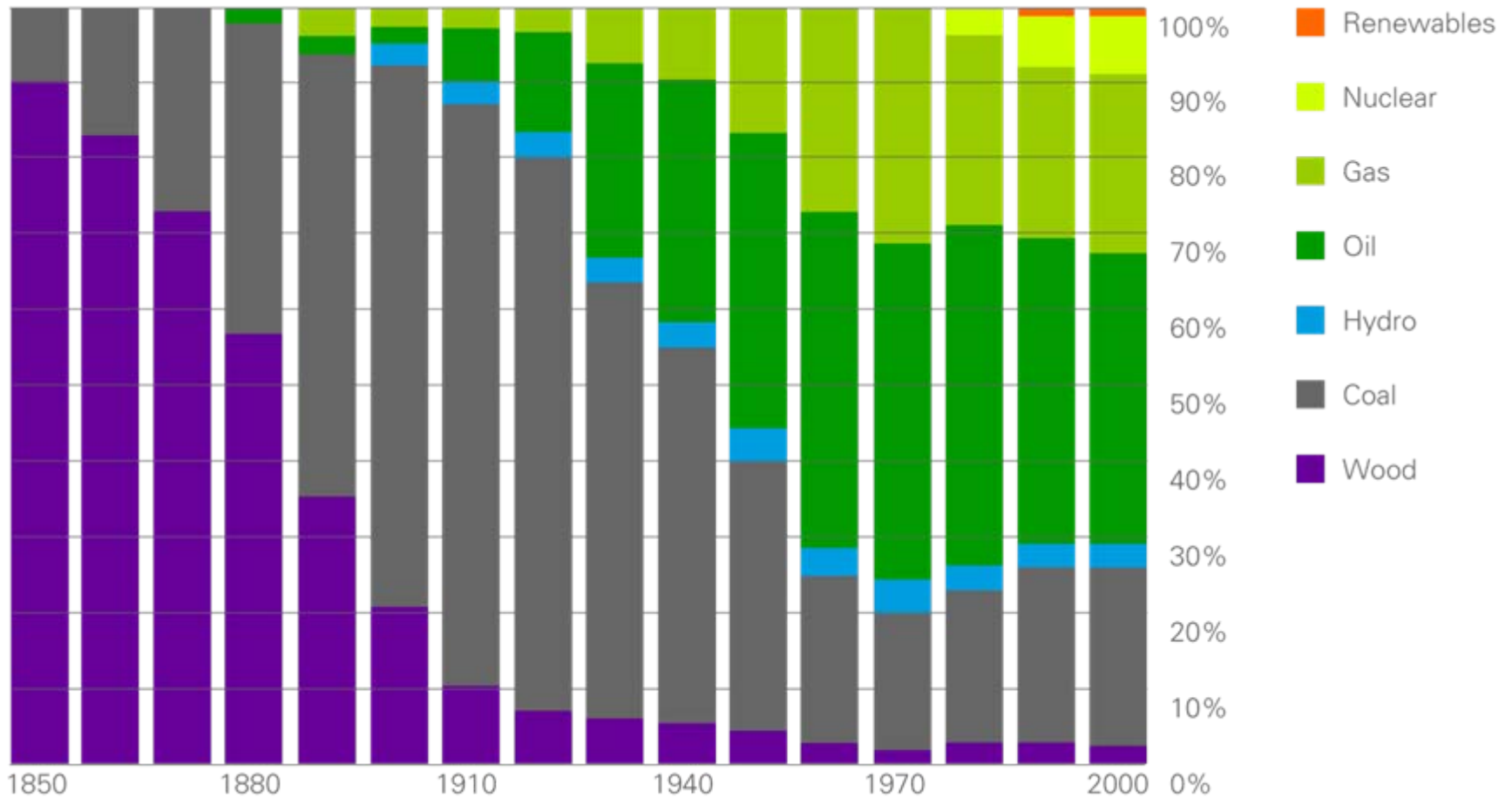
UK energy innovation

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7 December 2010

Energy context



US energy supply since 1850:



Source: US Energy Information Administration

Assessing research impact



Quality of UK S&T base

Research university legacy
1% of the world's population, but...
...14% of the world's most cited papers
R&D 1.8% of GDP
2nd to the USA in # of Nobel prizes

Assessing impact – business

Strategic alignment
Sustainable capability
Collaborative organisation
Technology management
- Competitive benchmarking

Dimensions of impact

Skills base
Business competitiveness
Business creation
Inward investment
Global application and licensing

Assessing impact – government

Jobs
Wealth creation
Knowledge absorption
Resilience
Quality of life

Enabling innovation



- Target policy support to reflect technology maturity
- Focus resources on the best research institutions
- Encourage the commercialisation of discoveries
- Invest in public private partnerships. Some BP examples:
 - BP Institute at Cambridge
 - UK Energy Technologies Institute

In summary



- Innovation in energy is unlike most other industry sectors
- The UK is well placed to embrace energy innovation
- To make innovation truly impactful, the right partnerships are critical
- Balance of collaborative vs competitive

