



AMEC Power and Process Nuclear

Capital markets seminar
11 December 2008

Notes

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Introduction

**AMEC
Power and Process
Nuclear**

Capital markets seminar
11 December 2008

Didier Pflieger
Chief Operating Officer,
President, Power and Process

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Agenda



14.30	Introduction	Didier Pflieger
14:50	Nuclear sector: Overview	Mike Saunders
15:20	Clean Up	Gerry McGill
15:50	Q&A/refreshments	
16:30	Reactor Support	Clive White
17:00	New Build	Frank Winter
17:30	Wrap up	Mike Saunders
17:35	Q&A	
	Drinks/informal discussion with management	

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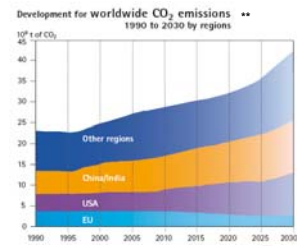
Climate change

Security of supply
Affordable power
Reduction of GHG* emissions

Energy diversity

Energy efficiency

- Global acceptance of the climate change impact
- Regulatory targets and mechanisms to drive energy policies
- Local solutions defined to achieve CO₂ reduction objectives

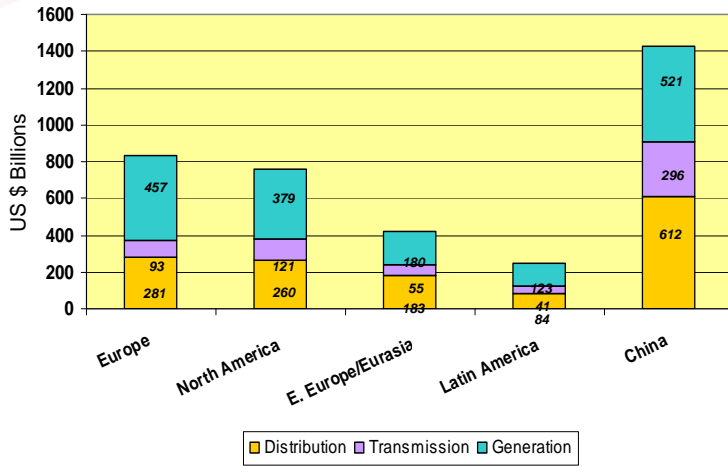


* Greenhouse gas
** Source: World Energy Outlook 2008

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International power investment needs 2007-2015



- Over US\$5 trillion in anticipated global power sector investment is required to 2015
- Annual renewables additions are projected at 59GW out of a total of 188GW (over 30% of total annual additions)

Huge investments providing large opportunities for AMEC

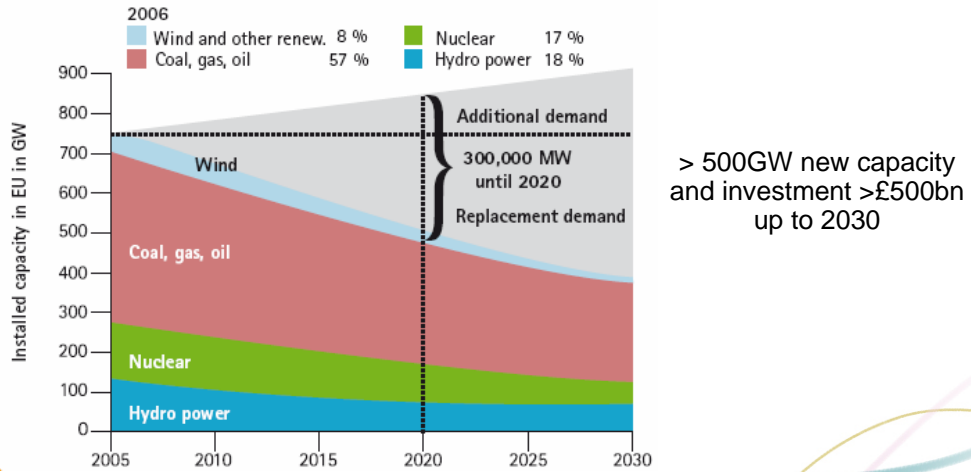
Source: World Energy Outlook 2008

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Power market in Europe 2020/2030

Demand for new plant capacity
due to ageing of the portfolio and increase of the demand

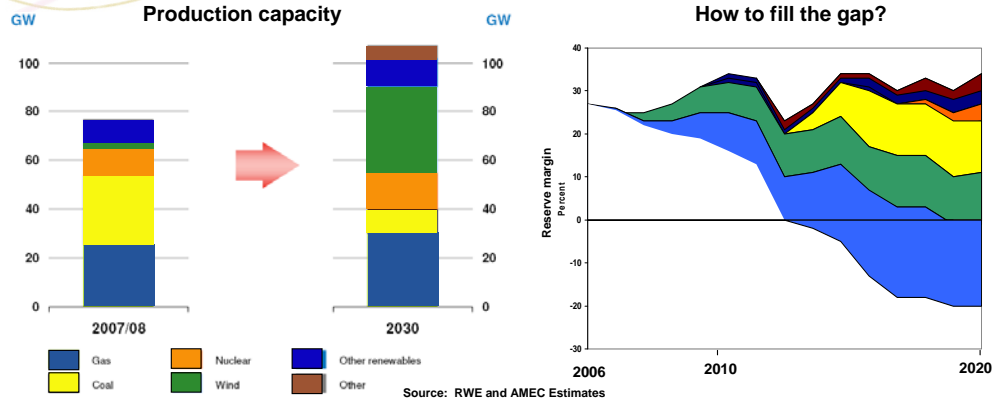


Source: VGB Facts and Figures 2008

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Power market in the UK: Ambitious targets for 2020/2030



- Difficult challenges: 20% CO₂ reduction target / 20% renewables for 2020
- Capacity gap with shutdowns of nuclear and thermal plants to be compensated

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Nuclear as part of the clean energy portfolio

Power and Process division end markets

Nuclear

- New Build
- Reactor Support
- Clean Up



Power

- Generation
- Transmission



Renewables

- Wind
- Carbon Capture
- Biomass
- Marine



Process Industries

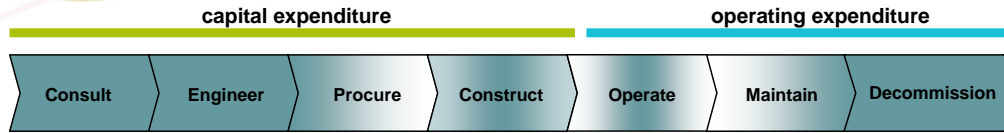
- Gas
- Biotech




AMEC has leading expertise in emerging clean energy markets

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Power and Process services



PROJECT MANAGEMENT

 Blue shading denotes AMEC focus

Extensive portfolio of services

- Consulting to construction and decommissioning management
- Better balanced contracting models, with less risky fixed price projects
- Strong delivery record, with comprehensive cross sector engineering and project management capability

AMEC as full service provider

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Innovations in renewables

Biofuels: Second generation technology

- Engineering leader of a Cellulose to Ethanol process with Celunol/Verenium, in partnership with BP
- Currently developing a pyrolysis research and pilot plant project as a consortia member

Marine

- Tidal device installed near Vancouver and proposals for a Bay of Fundy tidal installation
- First 2MW scale monopiles at Blyth
- Marine energy project for the Pentland Firth

Carbon Capture and Storage

- Regional study for the Humber Yorkshire Forward project
- Member of the board of the CCSA (Carbon Capture and Storage Association)

Hydrogen

- Founding member and chairman of the UK Hydrogen Association
- Design for a 4MW wind- hydrogen - electricity project currently in planning approval

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Innovations in power transmission



Driver

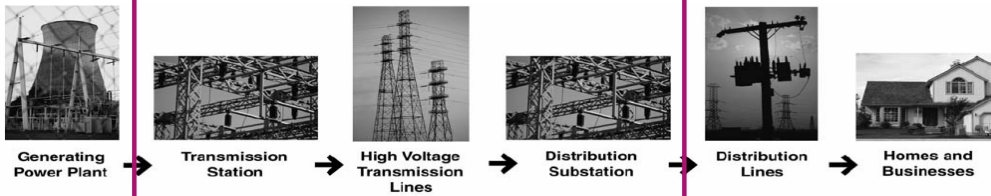
Shifting strategy towards nuclear and renewables

Driver

Environmental concerns for new overhead lines and substations

Driver

Demand patterns shifting to service cities with higher summer loads due to temperature shifts



- Super grids – higher capacity required due to renewable source variability
- Smart grids – dynamic load assessment and load shift to maximise asset use
- Under-grounding cables - avoid electro-magnetic field impact
- Energy storage – maximise renewable energy use

Management of power demand

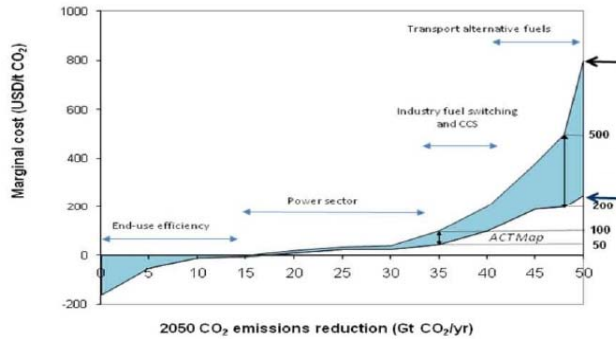
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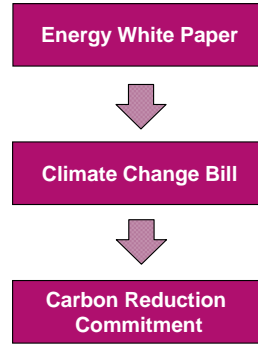
Energy efficiency



Marginal costs for CO2 reduction



Example - UK policy



Need for behavioural and cultural changes

Source: *Energy Technology Perspectives*, IEA, 2008

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Conclusion

Climate Change

- Global problem with local solutions with various energy mix
- Driver of significant long term investments

Power and Process ideally positioned

- Clean energy portfolio with high potential for growth
- Full service provider with top class resources and skills

AMEC: the natural partner

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