

APG

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UK ADVANCED POWER GENERATION TECHNOLOGY FORUM

27th February 2008

BERR Conference Centre, London

APGTF Vision and Way Forward

NICK OTTER

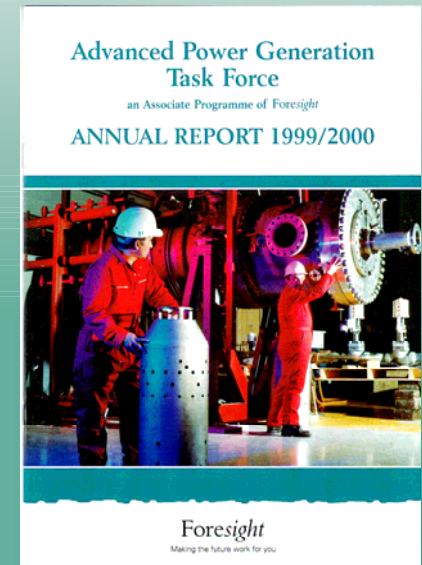
Director of Technology and External Affairs, ALSTOM Power Ltd
and
UK APGTF Chair

- Background and History of the APGTF
- Current Status and Position of the APGTF
- Future Role and Vision of the APGTF

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Initiated in 1999 in conjunction with UK Department of Trade and Industry

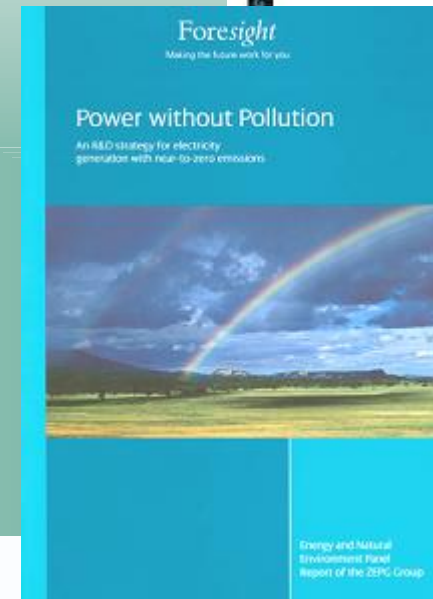
- to provide advice on technological priorities for power generation, with particular reference to fossil fuel usage.
- industry led but with representation from the full sector
 - Power generation companies
 - Equipment manufacturers
 - Fuel suppliers
 - Technology providers including academe
 - Government and public funding bodies
- co-financed between industry and DTI
 - first meeting 2nd February 1999



An Associate Programme of UK Energy Foresight

- early focussed specific Task Forces
 - Clean Coal Technologies : 2000
 - Gas Turbine/Combined Cycle : 2000
 - Zero Emission Power Generation : 2002

Raised the importance of clean use of fossil fuels as part of the portfolio



An Associate Programme of UK Energy Foresight

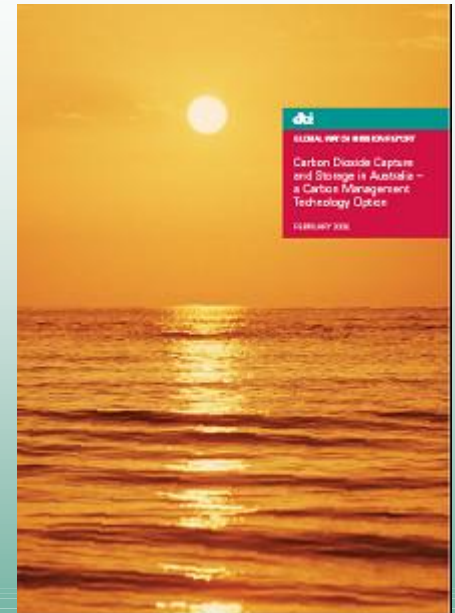
- Strategic missions

Advanced Power Generation & CCS

- USA and Canada 2002
- Australia 2004

Major reports and feedback sessions

Minister briefings



Significant input to UK CAT strategic thinking and understanding

An Associate Programme of UK Energy Foresight

- Strategic studies on
Advanced Power Generation &
Carbon Capture and Storage
 - The Transition to Zero Carbon Emissions
2001
 - A Vision for Clean Fossil Power Generation
2004

**Major input to development
of UK CAT Strategy**



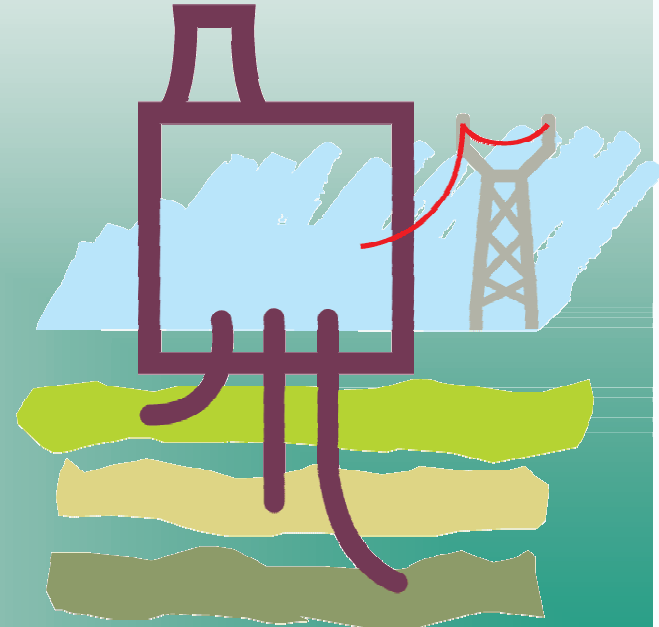
APGTF has proved to be a complementary action to the formal UK Advisory Committee on Carbon Abatement Technology (ACCAT)

- UK CAT Strategy, launched June 2005
- CAT R&D Programme
- HFCAT Demonstration Programme



APGTF has strong link to European Actions

- European Technology Platform
ZEP : “Zero Emission Fossil Fuel Power Plant”
 - Technology
 - Policy and Regulation
 - Demonstration and Implementation
 - Public Awareness and Communication



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- **Industry and other stakeholders**
 - Generators/AEP representation : EON UK, RWE npower
 - Equipment Suppliers/BEAMA Power : ALSTOM, Doosan Babcock
 - Fuel Suppliers : COALPRO, Oil&Gas/BP
 - Academe : UKCCSC/Cranfield, ESR Network/Nottingham
 - Other Trade Associations : CCSA, CHPA/Rolls Royce
- **Governmental Representation**
 - BERR, DIUS/OST, UKTI
 - Technology Strategy Board, Energy Research Partnership
 - EPSRC on behalf of Research Councils
- **Technical Group : Materials**
 - Have played a major role development of MATUK and its actions in Energy

- To ensure strategies are developed and implemented that support UK climate change goal of reducing CO₂ is achieved both nationally and worldwide
- To ensure that the UK has secure clean affordable energy and the technological capability to support it
- To ensure that UK has the technologies to allow UK to take advantage of UK and global market opportunities
- To ensure that there is a significant contribution to UK wealth creation through provision of the appropriate technologies and capability

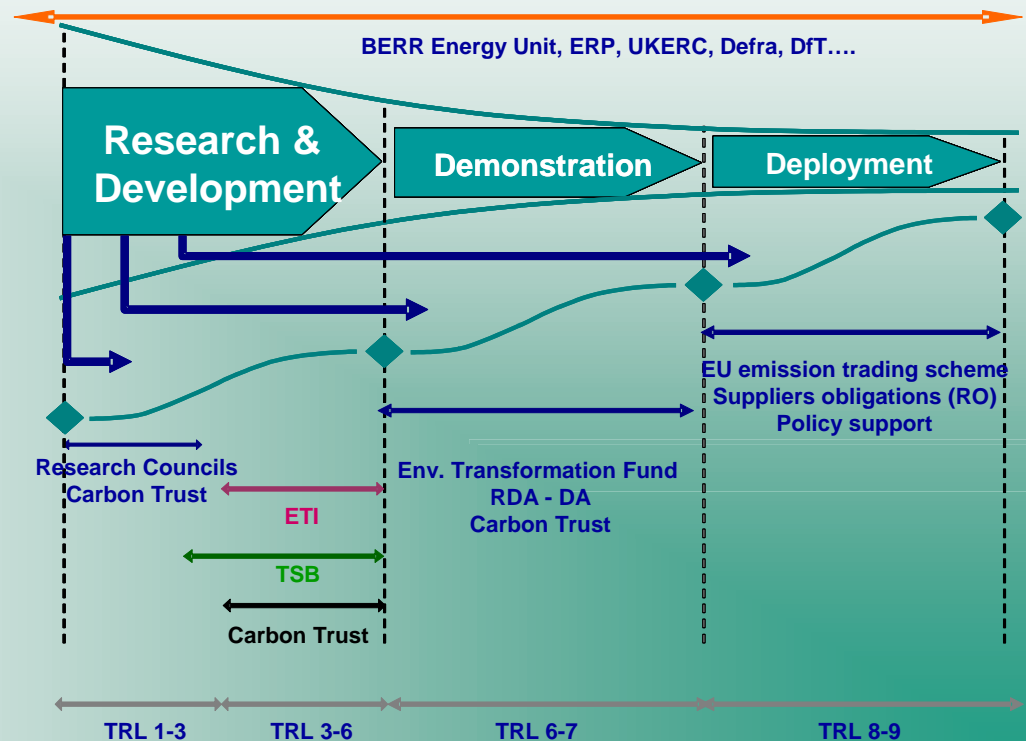
Scope : near-to-emissions technologies from fossil fuel, biomass and associated technologies

- Identification of RDD&D strategy targets and priorities for UK
- Promotion of these strategies throughout the full sector of industry, academe, government, EC and other stakeholders to ensure adequate funding and support
- Alignment of existing/new RDD&D programmes to strategy
- Facilitation of engagement in international initiatives
- Provision of a strong technical linkage to policy makers
- Promotion of actions that will ensure appropriate skills and resource are in place to achieve strategies and targets

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- To be recognised as the preferred industry led organisation to give technological advice and information for all relevant governmental and independent groups in the field of fossil fuel and associated power generation
- To do this from a strong technology basis covering the full chain from plant systems, components, CO₂ capture, transport and storage.

- To advise across the whole chain of technology : from research to deployment through demonstration
- To be an active player in what is becoming an increasingly rationalised landscape for Energy Research and Technology development in the UK



- What should go into the future UK CAT RDD&D Strategy?
- Designed to ensure full audience participation
- Output to be used to help create the APGTF input to the current update of the UK CAT strategy

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