Energy Materials Working Group

‘Launch of a strategic research agenda’

Derek Allen,
Co-chairman,
Energy Materials Working Group

Tate Britain, December 2007
11.30-11.45 Overview of SRA (Derek Allen)
11.45-12.45 Presentation of technical reports
   - Fossil (Colin Small, Rolls Royce)
   - Nuclear (George Smith, Oxford University)
   - Alternative Energy technologies (John Oakey, Cranfield)
   - Transmission, distribution & storage (Ziad Melham, Oxford Instruments)
12.45-12.55 Conclusions and way forward (Derek Allen)
12.55-13.15 Discussion (all)
13.15 Closing Remarks – Wyn Jones
13.20 Lunch
What is the SRA? - Industry led, needs driven

A means by which we can;

• Deliver materials solutions to the energy sector to help meet Energy Policy objectives

• Identifying business opportunities for the materials community in UK

and provide;

— Coordination
— Long term strategy and funding policy
— A unified ‘voice’ with influence
— ‘Hooks’ into Europe

which will;

• Advise funding agencies on priority areas

• Help define UK priorities for overseas funding where UK has direct input. (FP7)
Why Energy?

Security of Supply

Climate change

Affordable Energy

Fuel costs to rise again
Our Objectives

Materials underpin the entire energy infrastructure

Help meet Government Energy Policy objectives of:-

• Reduced CO2
• Security of supply
• Affordable electricity

AND

• Provide wealth creation for the UK

“Globally the overall value added of the low carbon energy sector could be as high as $3 trillion per year worldwide by 2050… if Britain maintains its share of this growth there could be over a million people employed here in our environmental industries within the next 2 decades ”

Gordon Brown, November, 2007

AND

• Influence and align EU programmes
ORGANISATION

MatUK

Energy Working Group
Advisory Committee

Implementation

Coordination and development of Strategy and deployment plan

Development of Strategic Research Agenda

Fossil/Nuclear

Renewables

T&D/storage

Conservation

Regulatory/Policies/Social/Skills

Task Groups

With CMWG

Structure and Delivery Mechanism
Who’s involved?

- Advisory Committee,
  
  
  *Other organisations*: Materials KTN, IoM3, MoD, QinetiQ, NPL, Manchester University, TWI, Oxford University, BERR, Imperial College, Cranfield University, UKERC, EPSRC, Namtec, UKTI and RDA’s.

- Secretariat supplied by BERR

- 100’s of companies around the UK have been consulted throughout the process
Developing the Strategic Research Agenda

Supply chain mapping

- fossil
- nuclear
- alternate energy
- T, S & D

SRA

DP

Deployment

Strategy development

Technology scoping

The UK capability

Making the UK the best place to do business in materials
What are we delivering?

...4 key technology scoping reports and the SRA
What are we delivering?

...and a Consultation Document on the UK Energy Materials supply chain
SRA contents

The SRA covers the following issues:

- Overview of energy market
- UK materials supply chain
- Sustainability/Natural resources
- Skills
- International collaboration
- Technology challenges
- Funding
- Recommendations
- Technical annexes