

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;

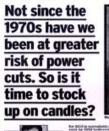
- Advise funding agencies on priority areas
- Help define UK priorities for overseas funding where UK has direct input.(FP7)



Why Energy?

Energy Materials

Security of Supply



motoring make up

by Michael Hanlon





stacular growth now biggest threat to environment

Climate change

Fuel costs to rise again RITAIN's biggest manufactur-g companies are being told Lucinda Kemeny and Dominic O'Connell

ntrol of the debt brings control of the station - offering control of the deck brings control of the statistic – olivering in the pound for the outstanding loans, against Goldman this 6 64 and International Power's 65p. Rowever, BHP's offer is in the with British competition law, offered to supply Drax with coal for the next 15 years but

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If not more than, the cost to the draw customer of keeping its facili-wh ties powered up and ranning. Companies can pay as much as £40 to use one megawatt of tim power for an hour during times to t

UK COAL CHALLENGES DRAX BIDDER

Affordable Energy



Energy Materials

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

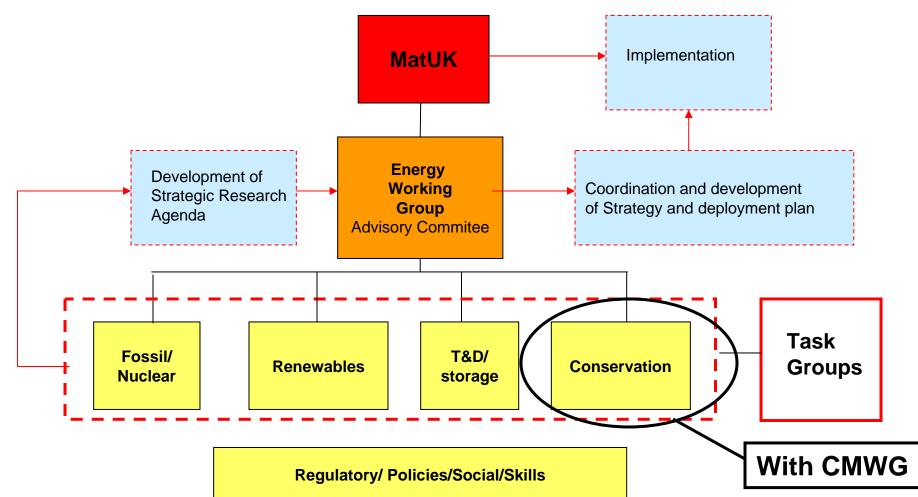
Influence and align EU programmes



Energy Materials

Structure and Delivery Mechanism

ORGANISATION





Who's involved?

Advisory Committee,

Industry; Alstom, EON UK, Johnson Matthey, UKAEA, Siemens, Pilkington, Doosan Babcock, British Energy, BP, Rolls Royce, BNFL, Corus, Alcan, Granta, National Grid, RWE, AREVA, Pilkington, Rolls Royce Fuel Cells, UKAEA, Oxford Instruments,

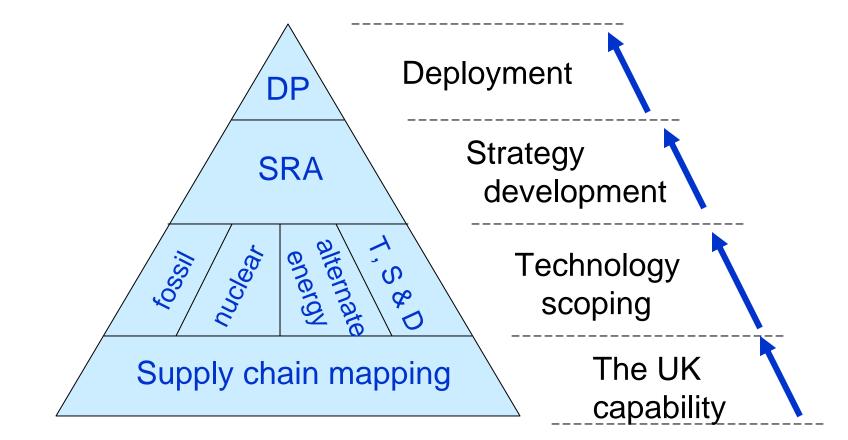
Other organisations; Materials KTN, IoM3, MoD, QinetiQ, NPL, Manchester University, TWI, Oxford University, BERR, Imperial College, Cranfield University, UKERC, EPSRC, Namtec, UKTI and RDA's.

- Secretariat supplied by BERR
- 100's of companies around the UK have been consulted throughout the process

Developing the Strategic Research Agenda



Energy Materials





What are we delivering?

Energy Materials

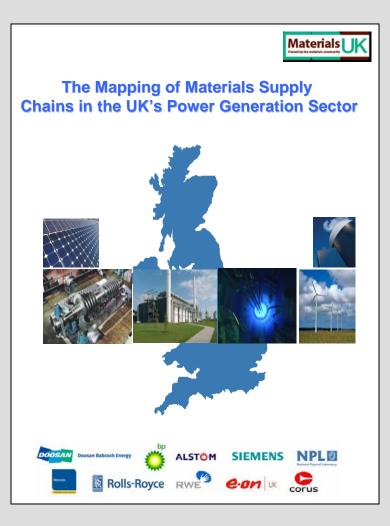
...4 key technology scoping reports and the SRA





What are we delivering?

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





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