

# ENERGY MATERIALS WORKING GROUP- progress

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*Energy Materials Working Group*

*Presentation to MatUK community 25/1/07*



# Why is it important?

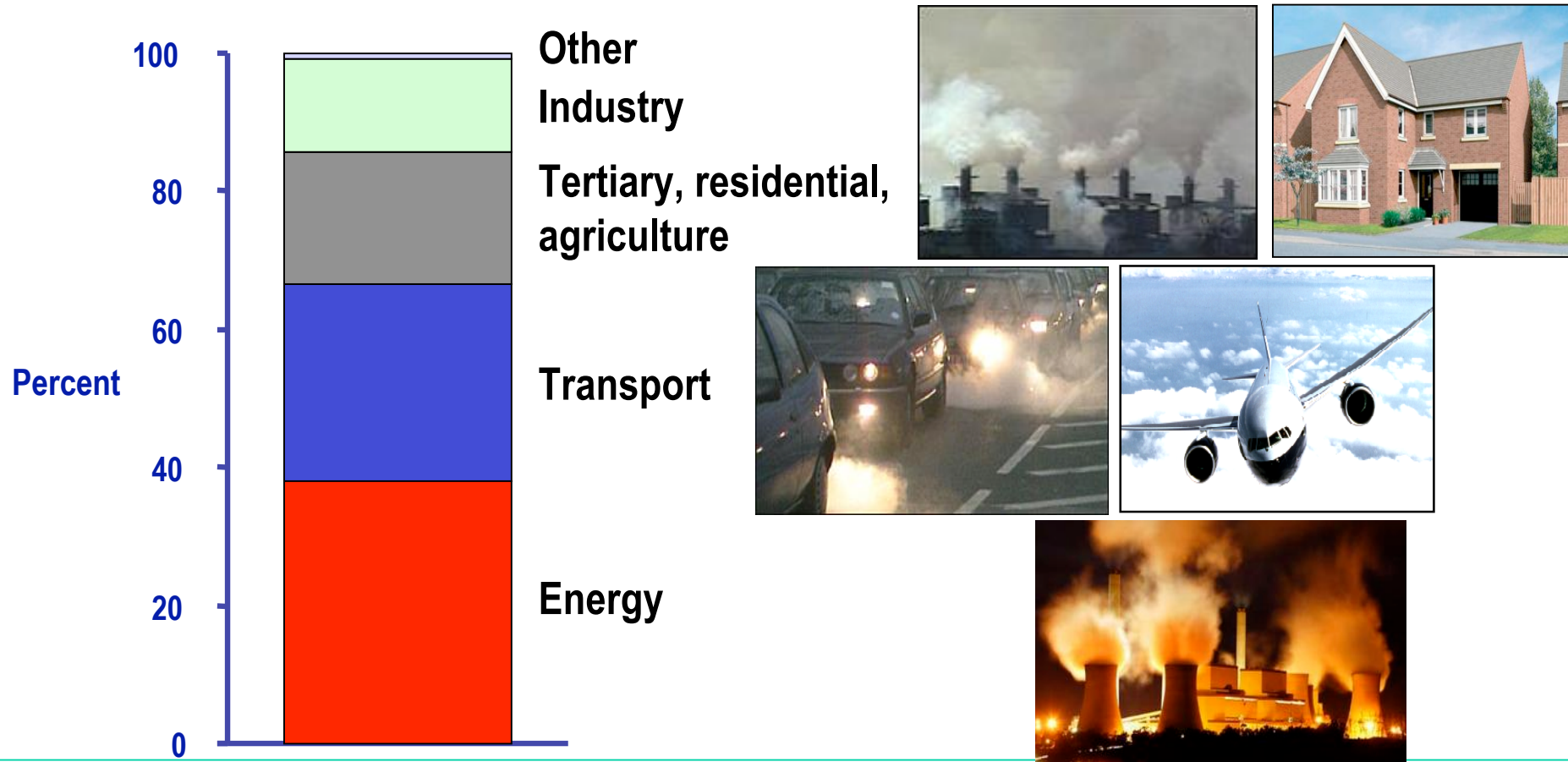
by far the most terrifying film  
you will ever see.

## an inconvenient truth A GLOBAL WARNING

An Inconvenient Truth on DVD  
November 21

# Global Warming – who's responsible?

Worldwide GHG emissions  
by sector



## Why?

- ***Energy & environment have been identified as the key Global issue; materials is a key underpinning technology.***
- ***A key recommendation of the Materials IGT***
- ***In addition, Energy Materials R&D in the UK requires:-***
  - **Coordination**
  - **Long term strategy and funding policy**
  - **A unified ‘voice’ with any influence**
  - **‘Hooks’ into Europe**

## What it is:-

- A coordinated Industry led group that can:-
  - influence Technology Strategy Board, government agencies and funding bodies both UK & EU (through MatUK, if/where appropriate)
  - Act as an advisory Group on RD&D priorities to bodies such as the UKERC, Energy Research Partnership and Energy Technology Institute.
  - Act as an active network to partner into funded programs

## What it isn't:-

- Another roadmapping exercise and talking shop

## 1. Objectives

- Develop a Strategic Research Agenda and Deployment Plan for the UK Materials supply chain which will **improve profitability** in the sector whilst meeting the key energy-related challenges of sustainability, environment and security of supply facing the UK.

## 2. Scope

- Power generation (conventional, nuclear & alternative energy sources)
- Transmission, distribution & storage
- Efficiency (conservation & useage)

**NB. Specifically excludes the transport sector**

## How?

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- a). Accounting for the 2006 Energy Review and covering a 5, 10 & 20 year horizon, defining the **key materials R&D requirements** for the Energy Sector. (including export opportunities)
- b). Identifying key strengths, gaps and opportunities for the UK materials supply chain to identify significant **new business opportunities** over the aforementioned timescales
- c). Accounting for likely **policy, legislative, training and skills** impact on the sector to feed into other existing MatUK working Groups
- d). Accounting for, consulting with and **influencing** existing National (and European) materials groups involved in the sector; including industrial, governmental, academic, NGO' s, research councils and funding agencies.

## Deliverables

1. A Strategic Research Agenda (SRA) for energy materials which defines the drivers, barriers and direction for R&D over the next 20 years
2. A Deployment Plan which indicates how the SRA will be implemented and impact on the UK materials industry.

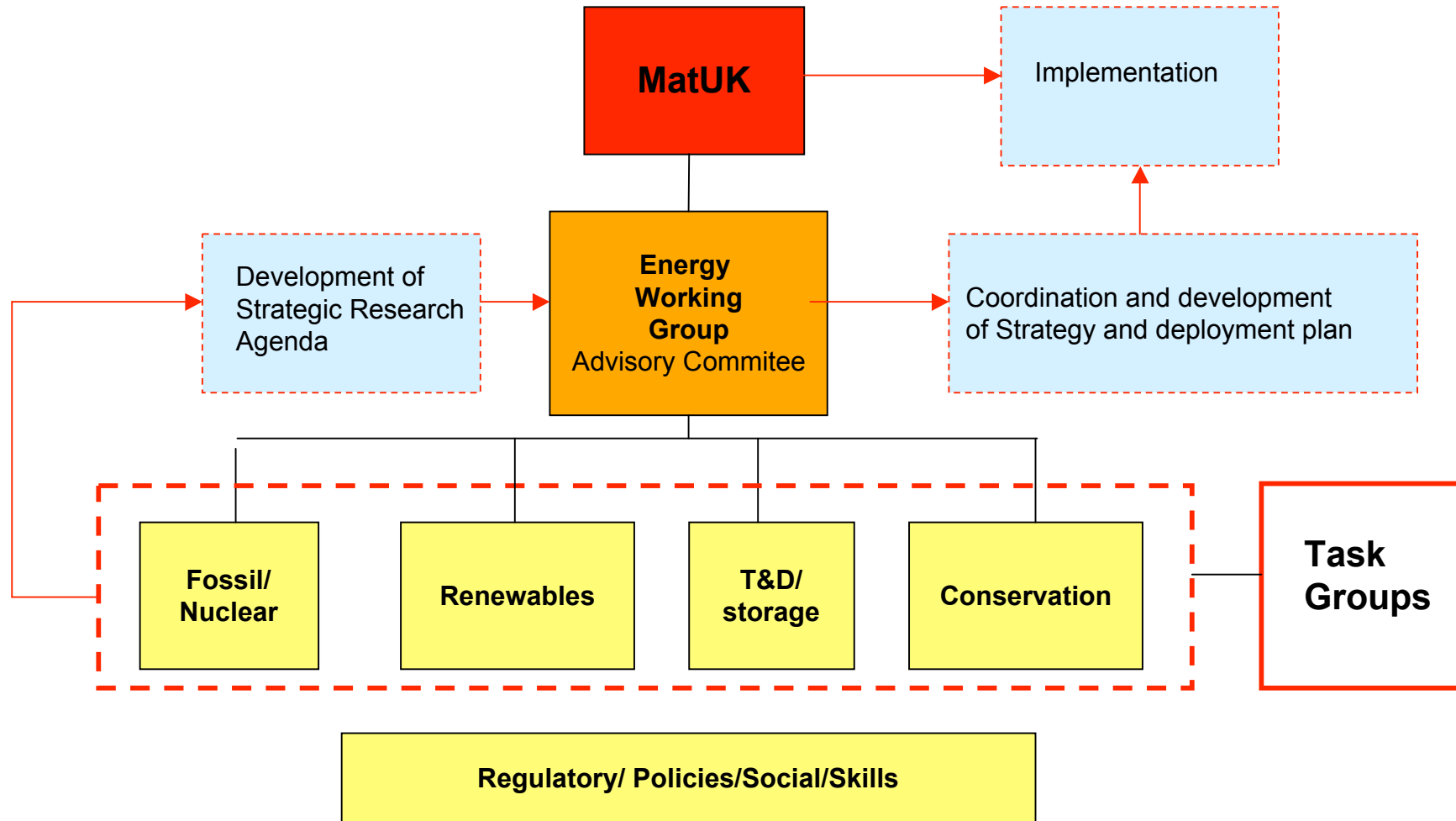
This will be formally presented through MatUK to key stakeholders of Government officials, Research Councils, RDA's and the Technology Strategy Board to develop an agreed, long term, sustainable Energy Materials Research Programme for the UK.

## When?

Initial drafts by summer 07



## ORGANISATION



## Who's on board?

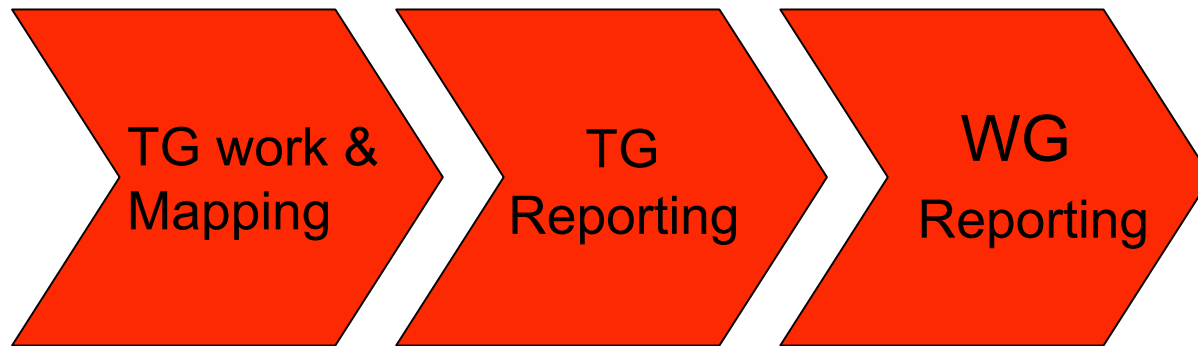
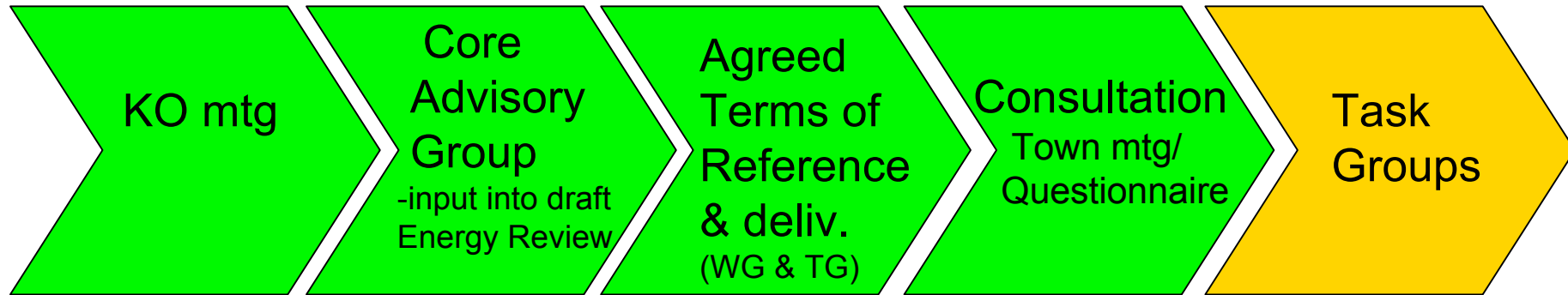
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- **Advisory Committee, Alstom, EON UK, Johnson Matthey, UKAEA, Siemens, Pilkington, Doosan Babcock, British Energy, BP, Rolls Royce, BNFL, Corus and Alcan.**

**Other representative organisations include; Qinetiq, NPL, Manchester University, TWI, Oxford University, DTI, Imperial College, Cranfield University, UKERC, EPSRC and RDA's.**

- **Additional organisations welcome to form a balanced sector view.**
- **Secretariat supplied by DTI**
- **Currently self-funded**

## Progress to date & milestones.



*Feb- May*

*June- Aug*

*Oct*

# How Can Energy Materials Help You?



Want to get involved?

[www.matuk.co.uk/energy.htm](http://www.matuk.co.uk/energy.htm)  
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