

# **RCUK Energy Strategy Fellowship**

### Overview and links to Nuclear Academics

2013 Nuclear Academics Meeting University of Birmingham



## **International Panel for the RCUK Review of Energy**

# Progressing UK Energy Research for a Coherent Structure with Impact

Report of the International Panel for the RCUK Review of Energy 2010



Is the energy research funded by the UK government through the RCUK energy programme delivering impact in the UK and worldwide?

"Across almost all areas reviewed by us we found interesting, leading edge and world class research. The excellent international reputation of UK research is deservedly earned".











### But.....

- Impact: On the whole, the academic community is very well regarded on the international scene. However, in terms of impact on economic benefit, industry development and quality of life, we have concerns that much more can be done.
- **Skills base:** There is a good pipeline of doctoral students and post doctoral research associates. *The availability of long-term career paths is less than clear.*
- Targeted programmes: These have produced impressive results. There are significant issues, in particular the communication of the balance between open ended discovery and targeted strategic programmes. There is a distinct lack of transparency of process.

# **Energy Research and Training** *Prospectus*

"The evidence base upon which the RCUK Energy Programme can plan its forward activities, acting in concert with Government, other RD&D funding bodies, the private sector and other relevant stakeholders."

# Key issues:

- Not just climate change: security; affordability; economic opportunity
- Robust against uncertainty
- Ensuring links with underpinning science and engineering
- The interface between RCEP and other RD&D activity/funders
- Training/human capital as well as research

### **Strategic Workshops**

- Energy Strategies and Energy Research Needs:
   24 October 2012
- The Role of the Environmental Sciences, Social Sciences and Economics:
   13 November 2012
- Research Councils and the Energy Innovation Landscape:
   20 February 2013
- Synthesis:15 July 2013

### **Expert workshops: January – June 2013**

Fossil Fuels and CCS 8-9 January 2013 with UK CCS Consortium Energy in the Home and Workplace
5-6 February 2013

with EEDO

17-18 April 2013

with Ofgem, Smart Grid

**Forum** 

Bioenergy 14-15 May 2013

with BSBEC and Biomass SUPERGEN **Transport Energy** 11-12 June 2013

with Low Carbon Vehicle Partnership and DfT Electrochemical Energy Technologies & Energy Storage 25-26 June 2013

with Royal Society for Chemistry, IoM3

### **Light-touch review:**

nuclear fission; wind/wave/tide; industrial energy

### **Prospectus Process: expert workshops**

### Workshop



### **Prospectus Document Outline**

2.	Current	and	future	role	of	XXXXX	in	the	energy	systen

- 3. UK research capabilities
- 4. Existing roadmaps and innovation needs assessments
- 5. Research challenges
- 6. Research needs

Introduction

- 7. Research support
- 8. Training
- 9. Connections
- 10. Conclusions and recommendations

### What we want to achieve at the Nuclear Academics meeting

- To present our initial findings and conclusions of a more crosscutting nature - to the nuclear community
- Check that the views of the nuclear community resonate with the previous findings – and bottom out any differences
- Ensure that the particular characteristics and needs of nuclear research are reflected
- Not to reinvent the wheel and replicate the work already done in this area!

### **Session 15:00-16:00 Thursday 19 September 2013**

- A 1-hour consultation session
- We will present emerging findings of a cross-cutting nature from the previous expert workshops
- Examples include models for PhD training, data collection and curation procedures and suggestions for longer-term research cycles.
- Leading a discussion to test the validity of these findings in the nuclear domain
- Ensuring that any nuclear-specific challenges are recorded and incorporated into our findings.