



Organised by SCI's Energy Group

Developing New Perspectives on the Energy Trilemma: Balancing sustainability and security with affordable cost

SCI, London, UK

Tuesday 28 March 2017

Resolving the energy trilemma – for a sustainable, affordable and secure supply of energy - is fundamental to the UK's prosperity. While today's energy generation and consumption depend largely on established technologies, new technologies will be needed to achieve the target of an 80% reduction in CO2 emissions by 2050.

SCI's Energy Group is developing new perspectives on the energy trilemma by modelling alternative scenarios for the UK energy system which focus on the optimal use of available and emerging technologies. The modelling work will be conducted by Energy Technologies Institute (ETI) using its established and sophisticated ESME energy model. The modelling outputs and conclusions will be used to provide an objective, evidence-based view on the role of science and innovation in the UK energy sector, which can be utilised in government consultations, and in turn inform regulatory and market incentives and investments.

The aim of this event is to introduce Energy Group's modelling programme and its application to the work of the Chemistry Growth Partnership (CGP) on Industrial Decarbonisation. Future communications and events will focus on other sectors.

Programme

Registration will open at 13:30 and the speaker programme will start at 14:00.

- **Chris Heaton, Strategy Manager Modelling, Energy Technologies Institute (ETI)**
Update on modelling the UK energy system
- **Peter Clark, Knowledge Transfer Manager, Chemistry Knowledge Transfer Network**
The Chemistry Growth Partnership Action Plan for Decarbonisation of the Chemical Industry
- **Niall Mac Dowell, Faculty of Natural Sciences, Centre for Environmental Policy, Imperial College**
CCUS in the UK Energy System and the challenges of deploying it in industry / chemical industry

There will be a Panel Q&A at 15:15, followed by a drinks reception and networking at 16:00.

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