

## TOPIC 4 - LOW CARBON ENERGY GENERATION OPTIONS - DAY 2

Thursday, 1 October 2015  
Conference Room, Nuclear Fuel Cycle Royal Commission  
Level 5, 50 Grenfell Street, Adelaide SA 5000

### Mr Arjun Makhijani, Institute for Energy and Environmental Research (US) (8am, by videolink)

The Institute for Energy and Environmental Research (IEER) is a US based organisation that provides activists, policy-makers, journalists, and the public with understandable and accurate scientific and technical information on energy and environmental issues. Dr Makhijani is President of the IEER and holds a Ph.D. in Engineering, specialising in nuclear fusion, from the University of California, Berkeley.

#### Topics to be addressed at this public session:

- ⊕ Comparison of electricity generation from nuclear and renewable sources
- ⊕ Predicted future developments in other low carbon energy technologies.

### Dr Keung Koo Kim and Dr Kyun S. Zee, Korea Atomic Energy Research Institute (10am, by videolink)

The Korea Atomic Energy Research Institute (KAERI) has a history of over 50 years of research and development in nuclear energy. In 1997, KAERI commenced the SMART project aimed at developing an advanced small nuclear reactor with enhanced safety features. The SMART design was licensed in July 2012. Dr Kim is the Director of both Advanced Reactor Development and the SMART Project at KAERI. Dr Zee is a Principal Research Fellow at KAERI.

#### Topics to be addressed at this public session:

- ⊕ Overview of the key technical features of the SMART reactor
- ⊕ Estimated timeframe and potential challenges to commercial deployment

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## Ms Tania Constable and Professor Peter Cook, CO2CRC (12pm)

CO2CRC is a collaborative research organisation focused on carbon dioxide capture and geological sequestration, comprising participants from Australian and global industry, universities and other research bodies from Australia and New Zealand, Australian federal and state governments, and international government agencies. Ms Constable was recently appointed as the CEO of CO2CRC, following an extensive career in the Australian public service with a particular focus in the field of resources and energy policies and regulations. Professor Cook served as the CEO of CO2CRC from 2003-2011. He was an IPCC Coordinating Lead Author and in this role was a co-recipient of the Nobel Peace Prize for 2007

### Topics to be addressed at this public session:

- ⊕ Overview of carbon capture and storage technology – examples of where this is already being implemented
- ⊕ Challenges to commercialisation of this technology.



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