

TOPIC 4 - LOW CARBON ENERGY GENERATION OPTIONS - DAY 1

Tuesday, 29 September 2015
Conference Room, Nuclear Fuel Cycle Royal Commission
Level 5, 50 Grenfell Street, Adelaide SA 5000

Mr Donald Hoffman, EXCEL Services Corporation (US)

(7.30am by videolink) *Please note, the Commission's offices will not be accessible to the public before 8am. The session will be live streamed on the Commission's website for public viewing.

Mr Hoffman is the President and CEO of EXCEL Services Corporation, which he founded in 1985. EXCEL Services Corporation provides specialist advice and support services to nuclear facilities in the US and internationally with respect to operations, engineering, safety, licensing and regulatory issues. Prior to this, Mr Hoffman was a Branch Chief and lead reviewer at the US Nuclear Regulatory Commission and an Engineering Officer on a US Navy nuclear submarine. Mr Hoffman served as President of the American Nuclear Society from 2013-2014. He currently provides presentations on the benefits of nuclear science and technology to the US Congress and is chairing a committee to support all the US Governors on implementing the US Clean Energy Act and addressing the Climate Control Acts.

Topics to be addressed at this public session:

- ⊕ Overview of nuclear reactor designs currently in commercial operation around the world
- ⊕ Overview of nuclear reactor designs under development – potential advantages and key challenges to deployment.

Mr Andrew Stock, Energy Company Director, Climate Councillor (10am)

Mr Stock has over 40 years' experience in the energy sector in Australia and internationally in senior executive management, commercial, operational and development roles. Over his career, he has developed 3000MW of generation, large oil and gas projects, and renewables. He is a director of energy companies Horizon Oil Limited and Alinta Holdings, and past director of Silex Systems, Geodynamics, Transform Solar and Australia Pacific LNG. Mr Stock is also a director of the Clean Energy Finance Corporation and a Councillor on the Climate Council. He is a Fellow of Institution of Engineers Australia, Graduate of the AICD.

Topics to be addressed at this public session:

- ⊕ Overview of a range of different low emissions energy technologies
- ⊕ Potential advantages and future challenges of each technology
- ⊕ Key challenges to the development of large scale energy generation projects.

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Mr Richard Turner, ZEN Energy Systems (12pm)

Mr Turner is the founder and CEO of ZEN Energy Systems. ZEN was established in 2004 to develop innovative and sustainable energy technologies, with a focus on solar energy and energy storage systems. Mr Turner is a Member of the Australian Institute of Company Directors (MAICD) and has a Bachelor of Business Administration from University of South Australia. He has been the recipient of multiple Entrepreneur of the Year awards from a variety of organisations including the 2010 Ernst & Young "Australian Entrepreneur of the Year" for the Cleantech Sector.

Topics to be addressed at this public session:

- ⊕ Technical overview of ZEN battery storage systems and potential applications at the household, micro-grid and grid level
- ⊕ Factors driving the cost of battery storage systems into the future.

Mr Jonathan Whalley, Latent Heat Storage Pty Ltd (12:45pm)

Latent Heat Storage Pty Ltd is developing a highly scalable Thermal Energy Storage System (TESS) suitable for both grid and off-grid applications aimed at overcoming the intermittent nature of renewable energy sources. Mr Whalley is CEO of Latent Heat Storage Pty Ltd and is on the School of Electrical and Electronic Engineering Advisory Committee at the University of Adelaide. He has 30 years of experience as an engineer and entrepreneur.

Topics to be addressed at this public session:

- ⊕ A technical overview of the Thermal Energy Storage System and potential applications
- ⊕ Key challenges to commercialisation.

Mr Paul Graham, CSIRO (2:30pm by videolink)

Mr Graham is Chief Economist at the CSIRO Energy Flagship. He is responsible for advice on the global and national economic context relevant for the energy sector, setting the strategic direction for economic research and leading major projects. Mr Graham has been with the CSIRO for 15 years.

Topics to be addressed at this public session:

- ⊕ Battery energy storage technologies – projected market penetration in the future
- ⊕ Recent modelling by the CSIRO regarding generation technologies in the future energy sector.