

TOPIC 2 - NATIONAL ELECTRICITY MARKET STRUCTURE AND OPERATION

Friday, 18 September 2015

The Science Exchange, 55 Exchange Place, Adelaide SA 5000

Mr David Swift, AEMO (9am)

David Swift is the Executive General Manager, Corporate Development at the Australian Energy Market Operator (AEMO). AEMO operates the energy markets in eastern and southern Australia. This includes operating the National Electricity Market (NEM), maintaining the security of the National Grid and providing a range of forecasting and planning functions

Topics to be addressed at this public session:

- ⊕ Overview of the NEM structure and operation
- ⊕ The future of the NEM - impacts of decentralisation and efficiency measures.

Mr Rainer Korte, Mr Hugo Klingenberg and Mr Brad Harrison, ElectraNet (11am)

ElectraNet owns and operates the high voltage 275kV transmission system in South Australia, which transports power between metropolitan and regional South Australia, and Australia's NEM. Rainer Korte is Executive Manager Asset Management at ElectraNet. Amongst other things his responsibilities include network development, investment decision making and technical solutions for connecting generators and loads to the transmission network. Rainer has over 25 years of experience in the electricity industry. Hugo Klingenberg is responsible for the Network Development business unit at ElectraNet and has over 20 years' experience in network planning and development. Brad Harrison is ElectraNet's Principal Energy Market Analyst and is responsible for demand and supply forecasting and network congestion analysis.

Topics to be addressed at this public session:

- ⊕ The current state of transmission in South Australia
- ⊕ Changes in demand and electricity generation technologies over the next 20 years and how this might affect the transmission network
- ⊕ Potential developments in grid-level storage technologies over the next 20 years and how this might affect the transmission network.

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Mr Craig Oakeshott, Australian Energy Regulator (1.30pm)

Craig Oakeshott is the Director, Wholesale Markets at the Australian Energy Regulator (AER). The AER regulates wholesale and retail energy markets and transmission and distribution networks under the National Electricity and Gas Laws and Rules. It monitors the operations of market participants in these areas to ensure compliance with Rules and Legislation. Craig has 30 years of experience in the electricity industry.

Topics to be addressed at this public session:

- ⊕ Broad overview of AER's role
- ⊕ Regulatory requirements applicable to new electricity generation facilities
- ⊕ How upgrades to network infrastructure are regulated

Mr Mark Vincent, SA Power Networks (3pm)

Mark Vincent is a Senior Manager at SA Power Networks with overall responsibility for development and implementation of SA Power Networks' demand side participation and future network strategies. SA Power Networks operates the distribution network responsible for delivering electricity from the high voltage network to South Australian households and businesses.

Topics to be addressed at this public session:

- ⊕ Overall future trends in the network and the key drivers of these
- ⊕ Impacts of decentralisation on the distribution network
- ⊕ Potential future developments in battery technology and solar PV at the household level and the impact on the network.