



09.00	WELCOME AND OFFICIAL OPENING Dr Robert Barr AM EESA National President
09.15	KEYNOTE ADDRESS: The Engineering Profession in the Electricity Supply Industry Professor Alex Baitch, National President, Engineers Australia

10:00 Morning Tea and Exhibition Viewing

10.30	THEATRE: Chair - Dr Robert Barr AM Energy networks - evolutionary transformation or death spiral? Panel session: <ul style="list-style-type: none">• Peter McIntyre, Managing Director, TransGrid• John Bradley, CEO, Energy Networks Association• Bob Simpson, President, Electricity Engineers' Association (NZ)• John Hardwick, Group Executive Network Strategy, Networks NSW• Cameron O'Reilly, CEO, Energy Retailers Association of Australia
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12:30 Lunch and Exhibition Viewing

SESSION 1

THEATRE: Chair - Terry Lampard		ROOM 6A: Chair - Tim De Grauw	
Smart Grid, Smart Cities - putting the lessons learnt to work		Integrating renewables into networks - synergies or sinks?	
13.30	Smart Grid, Smart Cities - putting the lessons learnt to work Rachele Williams, Ausgrid <i>Exhibitor presentation: IEEE Xplore Digital Library</i>	13.30	Transforming distribution networks with energy storage under co-optimised control Dr Geoff James, Reposit Power <i>Exhibitor presentation: Schneider Electric</i>
14.00	Smart Grid, Smart Cities Melanie Koerner, Energeia <i>Exhibitor presentation: MV Technology</i>	14.00	Operational practicalities of integrating embedded generation Andrew Mitchell, Essential Energy <i>Exhibitor presentation: MathWorks</i>
14.30	CSIRO - Future Grid Forum Dr John K Ward, CSIRO	14.30	Batteries and PVs - made for each other Prof Tony Vassallo, University of Sydney

15:00 Afternoon Tea and Exhibition Viewing

SESSION 2

THEATRE: Chair - Kim Boyd		ROOM 6A: Chair - Peter Dulhunty	
Innovations in electricity networks		Large ambitious energy projects - do they have a future?	
15.30	Use of LiDAR and UAV for line design and vegetation management Drew Rodwell, Networks NSW <i>Exhibitor presentation: Wilson Transformer</i>	15.30	Delivering the dream - Nyngan solar farm connection Col Hackney & Ben Bates, Essential Energy <i>Exhibitor presentation: Pacific Test Equipment</i>
16.00	Update on utility applications of super-conducting technologies John Wright-Smith, AMSC <i>Exhibitor presentation: NOJA Power</i>	16.00	Changing role of gas in the Australian energy market Terry Grimwade, AEMO
16.30	Condition assessment of OH conductors Tom Ruzeu, Jemena	16.30	Colongra gas power station - new roles in new times Greg Everett, Delta Electricity

17:00 Close of day one



08.00 EESA National AGM .. in Room 5B
08.30 EESA NSW Chapter AGM .. in Room 5B

THURSDAY 13 NOVEMBER



SESSION 3

THEATRE: Chair - Patrick McMullan

Skills, training and enhancing individual development

- 09.00 **CIGRE Next Generation Network (NGN)**
Winodh Jayewardene, CIGRE
Exhibitor presentation: Power Consultants
- 09.30 **EEA - New modes of training delivery**
David Williams, Engineering Education Australia
- 10.00 **API - History and future**
Mike Griffin, The Australian Power Institute

ROOM 6A: Chair - Peter Langdon

Safety revisited - everyone a winner or staying alive!

- 09.00 **Infrastructure resilience & emergency response**
**Geoff Douch, Wellington Electricity
Exhibitor presentation: APD Power
- 09.30 **Safety on Multiple Earthed Neutral system**
Simon Lewis, Endeavour Energy
Exhibitor presentation: Wagners
- 10.00 **Advances in PPE in utilities**
Darren Jenkins, Ausgrid

10.30 Morning Tea and Exhibition Viewing

SESSION 4

THEATRE: Chair - Colin Frost

Consumer mega trends threatening the electric utilities current business model (and profits)

- 11.00 **The smarter home - threat or opportunity for network business models?**
Mark Paterson, CSIRO Energy Flagship
- 11.30 **Energy down, profit up? Network productivity in the new energy paradigm**
Chris Dunstan, UTS

ROOM 6A: Chair - Martyn Pearce

Regulatory regimes and networks - simplifying the complex framework to the benefit of all

- 11.00 **Towards a simpler 'future-ready' regulatory framework**
Garth Crawford, ENA
Exhibitor presentation: NM Group
- 11.30 **Economic benchmarking - Why an engineer should care?**
Matt Cooper, Ausgrid
Exhibitor presentation: IS Systems

12.00 Lunch and Exhibition Viewing

SESSION 5

THEATRE: Chair - Pamela Henderson

New research applied to networks

- 13.00 **VLF testing**
A/Prof Toan Phung, University of NSW
Exhibitor presentation: National Measurement Institute
- 13.30 **Power quality research and developments at UOW: past, present and the future**
Prof Sarath Perera, University of Wollongong

ROOM 6A: Chair - Simon Lewis

Disruptive technologies revisited

- 13.00 **PVs and distribution feeders - too many too soon?**
Leith Elder, Essential Energy
- 13.30 **Power quality state estimation - a new concept**
**Prof Neville Watson
University of Canterbury, NZ

14.00 Afternoon Tea and Exhibition Viewing

THEATRE: Chair - Bob Smith

14.20 **Presentation of Cresswell, Conway and Exhibitor Prizes**

90 Years for EESA
Chris Dalitz

Presentation on CIREC Rome Workshop and CIGRE Paris Session
Peter Dulhunty and Patrick McMullan

****EEA NZ Prize
Winning Paper**

FINAL PLENARY SESSION: **Networks in 2020 - Still hanging in there or gone forever?**

- 15.15 Mark Paterson, CSIRO Energy Flagship
Professor Michael Dureau AM, Deputy Chairman, The Warren Centre for Advanced Engineering
Dr Maree Zammit, Group Manager, Transformation, Networks NSW
- 16.25 **Closing remarks - Dr Robert Barr AM**
16.30 **Conference close**