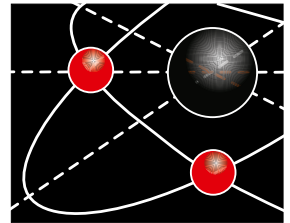


THE ELECTRIC ENERGY SOCIETY OF AUSTRALIA
86th National Conference and Trade Exhibition

ENERGY 2010

Watt's up...
Designing future-proof
energy networks

1-3 September 2010
Australian Technology Park, Eveleigh, Sydney



EESA
THE ELECTRIC ENERGY
SOCIETY OF AUSTRALIA



**ENGINEERS
AUSTRALIA**

Gold Sponsors

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EnergyAustralia

 **INTEGRAL**
energy
The power is in your hands

 **TransGrid**

Silver Sponsor

WILSON
TRANSFORMER

Bronze Sponsor


ActewAGL
Always.

An invitation from the National President



It is my pleasure to invite you and your partner to attend the 2010 National Conference of the Electric Energy Society of Australia (EESA). This conference follows a tradition going back more than 82 years and is part of the society's work to provide professional development for practitioners within the electricity industry.

It is very notable that the EESA national conference is returning to Sydney after four very successful annual conferences in Victoria and Queensland. The theme for this year's conference, "Watts's up- Designing future proof energy networks" will highlight the challenges being faced by the Australian electricity industry.

We are very pleased to welcome Country Energy, EnergyAustralia, Integral Energy and TransGrid as our Gold Sponsors. Without their support this conference would not be possible.

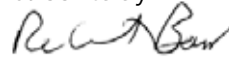
I'd like to extend a special welcome to partners. This conference offers the opportunity to renew old friendships, build new friendships as well as explore some of the most interesting parts of Sydney.

The conference will feature a valuable trade exhibition which will enable delegates to 'network' with industry suppliers and colleagues.

In conclusion I'd like to congratulate Bob Smith and the NSW Chapter Committee for organising and coordinating such a well planned conference.

I look forward to welcoming you to what I am sure will be a most valuable and enjoyable conference.

Yours sincerely



Dr Robert Barr
EESA National President

An invitation from the NSW Chapter Chairman



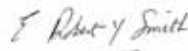
The New South Wales Chapter is very pleased to be the host organiser of the National conference in Sydney this year. For the past two years the Chapter has run very successful State conferences at the Powerhouse Museum, but in view of the larger number of delegates and exhibitors this year it is very exciting to move to the conveniently sited Australian Technology Park. I am sure that all participants will appreciate the facilities provided.

A feature of the NSW conferences has always been the high standard of presentations and the very modest cost. These features have been retained this year, although there will be a significant value increase due to the larger number of delegates and exhibitors. We also have an excellent group of expert presenters, both from Australia and overseas. In a rapidly changing world it is imperative that all staff are well informed on plans for the future and are able to input into discussions. This conference will provide such an opportunity.

The partners programme this year will include an in-depth tour of the working areas of the ABC Centre at Ultimo, followed by a great lunch. This, together with the conference dinner, will provide an opportunity to renew previous acquaintances and to meet new like minded people.

The conference would not be possible without the great support we receive from our sponsors, not only at the conference but throughout the year. We welcome Country Energy, EnergyAustralia, Integral Energy and TransGrid as our Gold Sponsors, Wilson Transformer Company as our Silver Sponsor and ActewAGL as our Bronze Sponsor.

It will be a great pleasure to welcome you and your partner to this conference.



Bob Smith
EESA NSW Chapter Chairman

Wednesday 1 September

12:15–16:00 Preconference site visit

Sydney Water's Desalination Plant, Kurnell. Leaves Australian Technology Park at 12.15pm, Numbers strictly limited to 30.

18:30–20:00 Opening of trade exhibition and welcome reception at Australian Technology Park

Welcome reception kindly sponsored by

Schneider
Electric

Thursday 2 September

09:00 WELCOME AND OFFICIAL OPENING

Dr Robert Barr
National President, EESA

Keynote address

09:10 Developments in the Electricity Supply Industry
Speaker to be advised

09:50 Morning tea

PLENARY PANEL SESSION

10:15 **Peter Birk**
Chief Technology Officer, EnergyAustralia

10:35 **Peter McIntyre**
Managing Director, TransGrid

10:55 **Dr Ralph Craven**
Chair, Ergon Energy

11:15 **Ken Stonestreet**
Executive General Manager
Engineering Services, Country Energy

11:35 **Rod Howard**
Group General Manager Network,
Integral Energy

11:55 **Bob Simpson**
President EEA & Chief Engineer, Transpower

12:30 Lunch

CONCURRENT SESSIONS

HVDC – POWER GRID OF THE FUTURE

13:30 **HVDC LIGHT - Power grid of the future**
Bo Nilsson, ABB

14:00 **Extending AC Grids with new HVDC Technologies**
Mark Davies, High Electric Power Consulting

14:30 **HVDC LIGHT - Power grid of the future –
a planning perspective**
David Eccles, EnergyAustralia & Northpower
Robert Barr, Electric Power Consulting

SMART VILLAGES, SMART CUSTOMERS AND METERS - A LINK TO INTELLIGENT NETWORKS?

13:30 **Country Energy's intelligent network deployment**
Michael Lysaght, Country Energy

14:00 **Integral Energy's experience with smart metering
and ToU pricing**
Stephen Lette, Integral Energy

14:30 **EnergyAustralia's experience with Smart Grids**
Adrian Clark, EnergyAustralia

15:00 Afternoon tea

LARGE AMBITIOUS PROJECTS – CITIES, GENERATION AND TRANSMISSION

15:30 **Sustainable Sydney 2030**
Allan Jones, MBE, City of Sydney

16:00 **Operational issues associated with TransGrid's
Western 500kV Project**
Darren Spoor, TransGrid

16:30 **CS Energy's Queensland Experience - Oxyfiring
and renewables**
Speaker to be advised, CS Energy

BACK TO THE FUTURE – RENEWABLES AND BIOENERGY AS FUTURE GENERATION SOURCES IN THE CURRENT GENERATION MIX

15:30 **An update on Bioenergy and Biofuels**
Steve Schuck

16:00 **Integrating renewables and other generation
sources into the conventional generation mix**
Harry Schaap, National Generators Forum

16:30 **Maintaining supply to remote rural areas**
Prize winning paper from EEA NZ Conference 2009
Ken Pattie & Michael Whaley, Powerco Ltd, NZ

17:00 Close of day one

18:30 **Gala Dinner**
Watersedge, Hickson Road, The Rocks

Conference Dinner kindly sponsored by



Friday 3 September

07:30 EESA AGM and Breakfast

CONCURRENT SESSIONS

CLIMATE CHANGE AND ITS IMPACTS ON NETWORKS

- 09:00 Climate change and climate change policies - current issues for the electricity sector
Simon Smith, Dept of Environment, Climate Change and Water
- 09:30 The impact of climate change on future distribution planning and infrastructure
Leith Elder, Country Energy
- 10:00 The cost of losses for future network investment in the new networks regime
Harry Colebourn

IMPLEMENTING INNOVATIONS IN SUBSTATION DESIGN

- 09:00 TransGrid's new 330/132 kV GIS substations
Peter Tanner & Angela Klepac, TransGrid
- 09:30 Innovations in substation design standards eg. fire protection of substations
Joe Metti, EnergyAustralia and ENA WG
- 10:00 Innovations in natural ventilation for transformer cooling in future substations
Graham Doig, AECOM

10:30 Morning tea

ASSET MANAGEMENT / TRANSFORMERS, REGULATORS

- 11:00 A strategy for an aging fleet of powertransformers
Prize winning paper from EEA NZ Conference 2009
Marshall Clark, Transpower NZ Ltd
- 11:30 New developments in transformer applications - phase shifting transformers on 132 kV systems
John Mouatt, TransGrid
- 12:00 Ergon's experience with LV Regulators - multiple uses in networks
Ken Ash, Ergon Energy

ARC FLASH CONTAINMENT - NEW CHALLENGES AND SOLUTIONS

- 11:00 Optical Arc Flash detection in modern switchgear
Speaker to be advised, Transpower
- 11:30 To be advised
- 12:00 Arc hazards - IAC Switchgear developments and other measures
Spiro Mitropoulos, Schneider Electric

12:30 Lunch

PLENARY SESSION

ENERGY SCENARIOS OUT TO 2030 AND THEIR IMPACT ON NETWORKS

- 13:20 An Australian view - a recent report to government
Martin Thomas, AM
Academy of Technological Sciences & Engineering
- 13:50 A roadmap out to 2050
Michael Bielinski
Marketing Manager Emerging Technologies, Siemens
- 14:20 Energy storage solutions out to 2030
Fabian Hess
Business Development Director for Smart Grid, ABB China
- 15:00 Questions and answers

15:10 Conference closing address





Conference

CONFERENCE VENUE

Australian Technology Park

Henderson Road
Eveleigh, Sydney
www.atp.com.au

ACCOMMODATION

Mercure Sydney Hotel

4 Star rating
818-820 George Street, Sydney
Tel 02 9217 6666
Fax 02 9217 6616
www.mercuresydney.com.au
Standard Room: \$165 (room only)
\$180 room and breakfast x1
(easy train access to Australian Technology Park)



SOCIAL FUNCTIONS

Wednesday 1 September

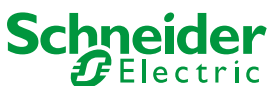
Opening of trade exhibition and welcome reception

Venue:
Bay 4 Atrium,
Australian Technology Park
Eveleigh, Sydney

Time:
18:30 – 20:00

Cost:
Inclusive for delegates;
Guests @ \$38.50 per person

Kindly sponsored by



Thursday 2 September

Gala Dinner

Venue:
Watersedge
11 Hickson Road
The Rocks

Time:
18:30 – 23:00

Cost:
Inclusive for delegates;
Guests and exhibitors
@ \$77.00 per person.

Kindly sponsored by



PARTNERS PROGRAM

Thursday 2 September

Explore the ABC Centre in Ultimo

Look behind the scenes at the ABC Ultimo Centre where all aspects of the ABC television, radio, new media, news and current affairs are brought together.

The ABC Ultimo Centre is a working space, so no two tours are ever the same. Your tour is likely to include a visit to one of our digital state-of-the-art television production studios, an on-air radio studio and news studio, as well as an insight into a variety of other ABC services.

The tour will conclude with lunch at a nearby restaurant.

Cost: \$33.00
(includes guided tour and lunch.)



General Information

Location

The Australian Technology Park (ATP) is located approximately 5km from Sydney's central business district and within 200m of Sydney's rail network. The nearest station is Redfern where you can exit via platform 10 and follow the walkway directly through to the ATP.

Parking is available at the ATP. Drive in via the main entrance on Henderson Road and turn left onto Central Ave. Park in the carpark in front of the Media City Building. Collect your ticket at the boom gate and bring it to the registration desk to receive a complimentary car parking ticket.

The bus stop closest to the ATP is on the corner of Boundary and Regent Street. For bus timetables call the Transport Infoline on 131 500 or visit www.131500.com.au

CPD points

Attendance may be credited towards Engineers Australia Continuing Professional Development (CPD) requirements. Engineers Australia members are required to undertake a minimum of 150 hours of CPD every 3 years.

Conditions and Cancellations

Conference: If you are unable to attend the conference, a substitute delegate is welcome at no extra charge. Where no substitute is available, a fee of \$110.00 (incl GST) will be deducted from your registration fee for cancellations received by The Meetings Manager in writing at least 14 days prior to the event.

A 50% refund, plus conference documentation, will be given if cancellations are received in writing between 14 and 7 days prior to the event. Thereafter no refunds will be made, but conference documentation will be sent by mail following the event.

Exhibition: In the event of cancellation, exhibitors are requested to inform The Meetings Manager Pty Ltd in writing. Unless the space can be resold, the organisers reserve the right to retain any monies paid.

Exhibits should meet the aesthetic and professional standards of the conference. Promotional activity should not impinge on or directly interfere with any other exhibitor. Exhibitors are liable for any damage they cause to the venue and the exhibition booths. It is the responsibility of the exhibitor to arrange insurance for items within their exhibition. ATP, EESA and The Meetings Manager are not liable for any damage or loss of exhibitors material in relation to the conference.

Hotel: Cancellations made within 30 days may be subject to the hotel's cancellation policy and may be charged for one night's accommodation. On the day of arrival "no shows" and cancellations will be fully charged.

Program changes

The program of papers and speakers may be subject to change. Please refer to the EESA website for program updates at www.eesa.asn.au

Fees & charges

All fees and charges include GST.

Registration

To register for the conference, social functions, partner program and/or as an exhibitor, please use the forms included in this booklet.

Registration forms can be either faxed or mailed to The Meetings Manager.

The Meetings Manager Pty Ltd

145/2-18 Buchanan Street, Balmain NSW 2041

Tel: 02 9810 7322

Fax: 02 9810 7320

Our privacy policy

By registering for this conference, relevant details will be held on a database by The Meetings Manager and EESA. A delegate list will be provided to all conference participants (name, position and organisation only).

Information may also be made available to parties directly related to the conference including sponsors and/or exhibitors. If you do not wish your information to be used in this manner, please advise The Meetings Manager by email to eesa@tmm.com.au or by fax to 02 9810 7320.

Delegate registration form

To register: fax this form to 02 9810 7320
or register online at www.tmm.com.au

Last Name Title First name

Preferred name for name badge

Position Organisation

Address

City State Postcode Country

Telephone () Fax () Email

Registration fees

	EESA Members	Non Members
Two days (includes welcome reception and gala dinner)	\$675.00	\$800.00
Earlybird (register and pay before 23 July; includes welcome reception and gala dinner)	\$600.00	\$750.00
Single day (welcome reception and gala dinner not included)	\$375.00	\$425.00
Specify day (Thursday/Friday)		
Special offer 1: EEA (NZ) members can register for EESA member fee		
Special offer 2: Non members registration plus new EESA membership	\$825.00 (EESA membership valued at \$70)	

Social functions (Inclusive for two day conference attendees. Please tick if attending)

- Preconference site visit Attending Not Attending
- Welcome reception Attending Not Attending
- Gala dinner Attending Not Attending
- AGM Breakfast (EESA members only) Attending Not Attending
- Welcome reception: Guest only No. of guests @ \$38.50
- Gala dinner: Guest only No. of guests @ \$77.00

Guest's name/s

Partners' program

- ABC Tour and lunch \$33.00
(Please tick if partner attending)

Partner's name

Accommodation

Please provide credit card details to guarantee your booking. These details will be sent to the hotel and a deposit equivalent to one night's accommodation may be charged by the Mercure Sydney. You will be responsible for paying your account directly to the hotel on your departure. Accommodation can only be guaranteed if booked before 30 July. After this time accommodation is subject to availability.

Mercure Sydney Standard room \$165 per night Standard room \$180 with breakfast Standard room \$200 with breakfast for two

Your accommodation booking

Please reserve rooms as above Arriving / Departing / Non smoking preferred

Payment details

A cheque payable to The Meetings Manager Pty Ltd is enclosed

Please charge the following credit card: Mastercard Visa Amex

Card number Expiry date / CCV

Signature Cardholder name

(credit card payment not valid without signature)

Conference registration fee \$

Social functions \$

Partners program \$

Total paid \$

Note: all fees include GST

To register

Register online at www.tmm.com.au or fax or mail completed form to:

The Meetings Manager Pty Ltd
145/2-18 Buchanan Street,
Balmain NSW 2041

Tel: 02 9810 7322 Fax: 02 9810 7320

ABN 81 065 936 192 Email: meetings@tmm.com.au

