



ENGINEERS
AUSTRALIA

Joint Institution Lecture Series Battery Energy Storage Safety and Standards

Hosted by: The Engineers Australia Electrical College

Earn CPD
hours

A 200kWh energy storage device is approximately equivalent to 20 litres of petrol and there are regulations about how much petrol can be stored in the home. Safety is paramount, irrespective of whether the setting is residential or commercial and this requires a focus on good engineering in lieu of not having relevant standards.

Australia and New Zealand do have standards for batteries based on Lead Acid and Nickel Cadmium. But experience of Lithium in other sectors, in particular aviation, has taught us to be careful reinterpreting the Lead Acid standards directly to Lithium. Topical is the campaign on AS5139 – Electrical Installations – Safety of Battery Systems and IEC62619 – Testing of Lithium Cells. The industry is catching up but suppliers are mobilising and the experience with hover boards demonstrates the risks we face without adequate standards.

The basis of AS5139 is an adoption of consistent and safe practises for installation of a new battery technology, developed from rules and standards written for Lead Acid and Nickel Cadmium. IEC62619 looks at the cell module testing and is the basis of building a system, which consists of PCS, BMS, enclosure, communications and battery cells modules

This presentation will also give a general overview of the different battery chemistries and focus on the need to understand how DC differs from AC in the power environment.

About the Speaker

Andrew Reid, Century Yuasa Standby Power:

Joined Century Yuasa Standby Power in 2000. Prior to joining CYB, Andrew spent 7 years working in Power Station environments, followed by 8 years developing and installing high reliability control and computer systems in the transport industry. He currently manages and directs all engineering activities of the Standby division.

VENUE

Harricks Auditorium
8 Thomas Street
Chatswood NSW 2068

DATE & TIME

Thursday 14 September, 2017
5.30 pm for a 6.00 pm start

Light refreshments will be provided prior to the presentation.

Presented in Cooperation with

 The Institution of
Engineering and Technology



TICKETS (incl. GST)

EA Members & Students: Free
IEE & IET Members: Free
Non-members: \$30

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