

PRESENTING THE INAUGURAL

Demand Response 2018

Meeting the challenges of Australia's
energy requirements

26 – 27 February 2018 | Swissotel, Sydney



PRESENTATIONS FROM:

Violette Mouchaileh, *Group Manager Market Enhancement*, **AEMO**

Mr Philip Cohn, *Strategy Specialist*, **ARENA**

Sal Tringali, *Head of Network Solutions*,
EnergyAustralia

Jeff Renaud, *Vice President and Managing Director, Asia Pacific*, **Enernoc**

Geoff White, *Project Director Retail Strategy*,
Horizon Power

David Evans, *Director Engineering and Projects*, **Flow Power**

Phil Livingstone, *Managing Director*,
Redback Technologies

Michael Benveniste, *Head of commercial and strategy*, **Powershop**

Matthew Coleman, *GM Network Solutions*,
Greensync

Andrew Richards, *CEO*,
Energy Users Association Australia

Megan Houghton, *Executive General Manager, Energy Solutions*, **ERM Power**

Craig Memery, *Policy Team Leader Energy and Water*, **Public Interest Advocacy Centre**

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9.00 Chair's opening comments

9.10 MINISTERIAL ADDRESS

The vital role of Demand Response

9.30 Securing the grid with Demand Response.

- The role of DR in a modern energy system
- Activities AEMO is undertaking in the DR space
- Initial outcomes from DR in reserve, including AEMO/ARENA trials

Violette Mouchaileh, *Group Manager Market Enhancement, AEMO*

10.05 ARENA - What we learnt this summer

Mr Philip Cohn, *Strategy Specialist, ARENA*

10.40 Morning coffee

11.10 DR in the future NEM: faster and firmer

Jeff Renaud will share perspectives from EnerNOC's seven years as an independent DR aggregator in the NEM, including EnerNOC's experience providing DR services to networks, retailers, the ARENA/AEMO trail, and the FCAS markets.

Jeff will discuss the work EnerNOC is doing to build faster, firmer DR resources that will help NEM remain reliable and secure in the future NEM with high penetrations of VRE generation and five minute settlement.

Jeff Renaud, *Managing Director Asia Pacific, Enernoc*

11.45 Energy under control: demand response from Flow Power

- The story of our technology – the kWatch Intelligent Controller
- The learnings from summer – what worked and what didn't
- The next steps – how Flow Power is reconnecting customers to market signals

David Evans, *Director of Projects and Engineering, Flow Power*

12.20 PANEL DISCUSSION

The Future of Demand Response

- What will demand response mean for 2018 and beyond
- What will industry need to do for future success
- Future energy stability in Australia

12.50 Lunch and networking

1.50 Leveraging AMI to inform and empower customers

An advanced metering platform has created value for Horizon Power, reducing network and retail costs and improving timeliness and accuracy of billing. Horizon is now leveraging this platform to inform and empower consumers that will assist the sustainable transition high penetration Distributed Energy Resources.

The presentation will cover the information now being digitally presented to customers on a daily and hourly basis and how that information is being used to create a new level of engagement with our customers.

Geoff White, *Project Director Retail Strategy, Horizon Power*

2.25 How Energy Queensland is delivering on demand response

Ana Smith de Perez, *General Manager Intelligent Grid Solutions Asset Safety & Performance, Energy Queensland*

3.00 The role of Electronic Vehicles

- Charging – what is a realistic mix?
- Soft charging: at home and at work – slow and manageable
- Hard charging: fast charging on the road – how to tame it
- Other charging – where and what impacts; how to control

Clive Attwater, *Tasmania State Treasurer, Australian Electric Vehicle Association*

3.35 Afternoon tea

3.55 The critical role of DR in a modern energy system

- We need to optimise DR in each of six parts of the system and market (Distribution, transmission, retail, wholesale, ancillary service and behind the meter) before we can call it efficient
- What 'optimal' DR looks like in all of those parts of the system/market
- What policy and regulatory changes we need to get to that point

Craig Memery, *Policy Team Leader Energy and Water, Public Interest Advocacy Centre (PIAC)*

4.25 Local governments partnering with DNPSs on demand response programs

- Targeting network limitations with residential engagement initiatives
- Aligning land use planning and network planning to maximise DM
- Cross sector data sharing opportunities

Scott McKenry, *Executive Officer, Eastern Alliance for Greenhouse Action*

5.00 Chair's closing comments

VENUE DETAILS

Swissotel Sydney, 68 Market St, Sydney NSW 2000

Phone: (02) 9238 8888, www.swissotel.com/sydney

9.00 Chair's opening comments

9.10 EnergyAustralia's role in demand response

Sal Tringali, *Head of Network Solutions, EnergyAustralia*

9.40 The Consumer Response to Demand Response

- Covering the Powershop experience with residential demand response
- What has consumer uptake of demand response been?
- What changes has there been to customer bills and energy peaks

Michael Benveniste, *Head of Commercial and Strategy, Powershop*

10.15 Using AI in Demand Response

10.50 Morning coffee

11.20 New Smart Technology

- Energy intelligence as an enabler
- Achieving mass diffusion of DR technologies
- Business models for adoption

Phil Livingstone, *Managing Director, Redback Technologies*

11.55 Decentralised energy exchange

- A customer lead energy transition is underway as DERs are being deployed across the nation
- As a sector, we need to engage with and incentivize participation to support the grid
- Decentralised markets are a key mechanism to facilitate this customer participation whilst ensuring the security of the grid

Matthew Coleman, *GM Network Solutions, Greensync*

12.30 4 Data-Enabled Paths for Controlling Electrical Loads in the Home

Circuit-level electricity data from behind the utility billing meter will enable four key strategies for controlling electrical loads in the home:

1. The finger – every home has a number of them and fingers can be motivated to turn things on and off via well targeted communications informed by real-time energy data
2. Switching – purpose-installed devices to control over the air to energise or de-energise loads like air-conditioning units and pool pumps, or block solar export, timed with critical times for grid stability
3. Cloud tools – working with a growing range of off-the-shelf remote control devices and cloud-based support services ('Siri, cool my home from my solar')
4. Energy-specific solutions – more traditional energy sector devices like Demand Response Enabling Devices (DREDs)

Gavin Dietz, *CEO, Wattwatchers* and keen home technologist

1.00 Lunch and networking

2.00 DR's critical role in delivering commercial benefits to Australian businesses

- The role of DR in an integrated energy management plan
- How to identify opportunities to generate revenue from load curtailment and onsite generation
- Case study – DR in action

Megan Houghton, *Executive General Manager, Energy Solutions, ERM Power*

2.35 Energy Users taking control of their energy future

- Energy user view of the market
- Drivers for taking action beyond policy and regulations
- Real world examples of actions taken
- Future challenges and opportunities

Andrew Richards, *CEO, Energy Users Association of Australia*

3.05 Afternoon refreshments

3.30 How green is my plateau? The environmental impact of demand response

Demand management/response is sometimes criticised for simply replacing peaking gas with caseload coal generation and therefore having a net negative environmental impact. But its more complex than that. Let's look at the whole landscape.

Mark Byrne, *Energy Market Advocate, Total Environment Centre*

4.05 Beyond DR: Innovative policy and regulation to unlock Demand Management potential

Chris Dunstan, *Research Director, University of Technology, Sydney's Institute for Sustainable Futures*

4.35 Chair's closing comments

4.45 Close of conference

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