

## SMART ENERGY SOLUTIONS



### 9.00am THE BIG PICTURE

**Welcome Address** - Steve Blume, Smart Energy Council

**Welcome to Country** - Uncle Allen Madden, Gadigal Elder

Lord Mayor of Sydney, Clover Moore (Invited)

NSW Minister for Energy & Utilities, Don Harwin (Invited)

Leader of the Opposition, Bill Shorten (Invited)

**State of the solar & storage industry** - Kobad Bhavnagri, Bloomberg New Energy Finance

**The Battle for our Energy Future Rages On** - John Grimes, Smart Energy Council

**The cost of dispatchable renewables and the market designs needed to support them** - David Leitch, ITK

**Where do we need investment in 2018 and beyond?** - Ian Learmonth, CEFC

**10.30am MORNING BREAK**

### 11.00am LARGE SCALE RE PROJECTS: A BOOMING PIPELINE

**The outlook for large-scale renewable energy projects** - Tristan Edis, Green Energy Markets

**Developments and trends in the Renewable Energy Target** - Mark Williamson, Clean Energy Regulator

**Financing and investing in large scale renewable energy projects** - John Zhong, Risen Energy

**The Aurora Project: Australia's First Utility Scale Solar Thermal Energy Project** - Kevin Smith, SolarReserve (Invited)

**Optimising the Renewable Energy Mix In Queensland** - Roger Price, Windlab Ltd

**Australian market outlook** - Lily Habib, Pacific Hydro Australia

**Asia Renewable Energy Hub** - Alex Hewitt, CWP Renewables

### 12.30pm LUNCH BREAK

### 1.30pm CUSTOMER FOCUSED ENERGY SOLUTIONS

**Future of Energy Management and PowerGenius** - Ben Stanton, PowerGenius & Next Idea Ltd

**Integrated energy services: innovative business models that link energy products and services** - John McKibbin, EcoLogic

**Engaging Customers with Energy Data** - Eshan Shafeeq & Grant Traynor, SwitchDin

**Empowering disadvantaged households to access affordable, clean energy** - Kellie Caught, Australian Council of Social Service

**The Best Way to Get a PV and Storage System** - Lucas Guo, GTL Renewable

**2.45pm AFTERNOON BREAK**

### 3.15pm APPLIED SOLAR & ENERGY STORAGE: FRINGE OF GRID, MICRO GRIDS & OFF GRIDS

**Improving Microgrid Stability with Cat Hybrid Microgrid Products** - Ron Hall, Energy Power Systems Australia

**Helping to balance a renewable energy rich grid** - Scott Young, Catch Power

**Intelligent Control of Grid Connected Microgrids** - Daniel Lloyd & Johnathon Delbridge, SwitchDin

**Smart Energy solutions from the Solar Centre: Integrating remote grids and knowledge sharing** - Sara Johnston, Desert Knowledge Australia

**The future of the distributed energy grid – will you build it and have someone else eat your lunch?** - Domenico Gelonese, Embertec

**4.30pm CLOSE**

## APPLIED ENERGY STORAGE



### 11:00am ENERGY STORAGE TECHNOLOGY & INNOVATION

**3 Reasons why a distributed architecture for solar and storage is the best solution for customers** - Duncan Macgregor, Enphase

**Ultra-High Power Lithium Batteries and their application in the new world of distributed generation with a high penetration of renewables** - Ike Hong, Kokam

**Super Capacitor Storage Technology** - Paul Wilson, Arvio

**Optimisation of the Daily Operation of a Hybrid Large-Scale Solar PV Farm and Pumped Hydro Energy Storage System** - Steven Spencer, Strategic Science & Analytics

**Delivering scalable, monitored environmentally sustainable energy storage solutions** - John Wood, Ecoult

**The Case for thermal energy storage (TES)** - Steve Hollis, Solastor

**Energy Storage Enabled Opportunities in the NEM** - Mark Leslie, AES Energy Storage

**12.30pm LUNCH BREAK**

### 1.30pm SIZING BATTERIES & FINANCIAL RETURN

**Battery Sizing for Commercial & Residential PV** - Warwick Johnston, SunWiz

**Energy intelligence to enable the future grid** - Phil Livingston, Redback Technologies

**Simulation of PV Energy Systems with Battery Storage** - Harry Suehrcke, SolarSim

**Methods to evaluate batteries for solar PV connection** - Anand Bhatt, CSIRO Energy

**The long and short of day trading your solar** - Andrew Mitchell, Enphase APAC

### 2.45pm AFTERNOON BREAK

### 3.15pm SOLAR & MARKET INNOVATION

**Overview of solar energy trends** - Milan Koev & Paul Scerri, REC Solar

**Half is More: The Case for Half-Cell Modules** - Alex Li & Daniel Kogoy, Jinko Solar

**The Lead Generation Industry's Dirty Little Secret** - Finn Peacock, SolarQuotes

**Coming Innovations in Clean Energy in the Next Few Years and How it will disrupt BAU** - Monica Richter, WWF Australia

**Who is building the Future of Australian Energy - The Boots on the Ground behind Solar Farm Construction** - Simon Luhrs & Dan Hemsley, Red Appointments

**MONO PERC, Better LCOE** - Hongbing Fang, LONGi Solar Technology

### 4.30pm CLOSE

## PROFESSIONAL DEVELOPMENT INSTALLER



### 9.00am WELCOME: OVERVIEW & HOUSE RULES

Brian England & Geoff Bragg, SEIA

### 9.10am CONFERENCE DAY SPONSOR PRESENTATION

### 9.25am EXPORT LIMITING: COMMERCIAL CASE STUDY - EXPORT LIMIT ON MULTIPLE BUILDINGS

Sebastien NG, Fronius; Alkyra Hutchison-Menzer, RF Industries

### 10.35am MORNING BREAK

### 11.05am NATIONAL BATTERY REGISTER: AN UPDATE

John Grimes, Smart Energy Council

### 11.15am CEC GUIDELINES UPDATE: FILLING THE GAP WHILE THE BATTERY STANDARDS ARE IN REVIEW

Sandy Atkins, Clean Energy Council

### 12.00pm FUTURE OF STCs: STC MARKET UPDATE AND PREDICTIONS

Ric Brazzale, Green Energy Trading

### 12.35pm LUNCH BREAK

### 1.35pm FINANCIAL MANAGEMENT: KEEPING YOUR BUSINESS PROFITABLE IN A VOLATILE MARKET

Brian England, SEIA & Self Sufficiency Supplies

### 2.15pm NEW PV TECHNOLOGY: BI-FACIAL MODULES - AN ALTERNATIVE OR THE FUTURE IN PV?

Blair Pester, Winaico

### 2.40pm SIMPLIFYING YOUR BUSINESS IN SMART ENERGY

Jeff Yu, One Stop Warehouse

### 2.55pm AFTERNOON BREAK

### 3.25pm PEER TO PEER: TRADING ENERGY BETWEEN CONSUMERS

Nigel Morris, Solar Analytics

### 4.00pm CLOSING ADDRESS

Geoff Bragg, SEIA

### 4.05pm CLOSE

## SMART ENERGY SOLUTIONS

### 9.00am HYDROGEN & ALTERNATIVE FUELS

**Hydrogen in Australia: Value chain opportunities and commercialisation activities** - Attilio Pigneri, H2U & Australian Association for Hydrogen Energy  
**Hydrogen Energy Storage and Grid Stability - A case study from Mainz, Germany** - Murray Lyster, Siemens Australia

**Power-to-Gas: The role that Hydrogen will play!** - Warner Priest, Siemens  
**Development of the Pentland Bioenergy Project** - Tony D'Alessandro, Renewable Developments Australia

**National Hydrogen Roadmap: Pathways to the development of a competitive hydrogen industry in Australia** - Sam Bruce, CSIRO Future

**A Thermal Battery for Next Generation Energy Storage** - Craig Buckley, Fuels and Energy Technology Institute, Curtin University

### 10.30am MORNING BREAK

### 11.00am SMART CONTROLS AND MONITORING

**Enabling the Energy Transition with Micro-Grids, Blockchain Technology & Embedded Networks** - James Sturch, Sonnen Australia

**Scaling the Intelligent Grid with Real-Time Energy Data Key** - Gavin Dietz, Wattwatchers

**Controlling distributed energy storage via the cloud: Value, challenges, and learnings from a pilot project** - Julian de Hoog, IBM Research

**Homeowners turn on their own big battery** - Dean Spaccavento, Reposit Power

**SunSPoT: Energy Data for Smart Decision Making** - Renate Egan, APVI, UNSW

**Challenges and benefits of forecasting Distributed Energy Resources (DER)** - Andrew Mear & Sergio Pintaldi, SwitchDin

### 12.30pm LUNCH BREAK

### 1.30pm DEMAND RESPONSE & ENERGY EFFICIENCY

**Victron Energy Remote Monitoring and Load Switching** - Margreet Leeftink, Oceania, Victron Energy BV

**Powering the future with demand response** - Matthew van der Linden, Flow Power

**Discover how Microgrids Contribute to the Energy Transition** - Stace Tzamtzidis, Schneider Electric

### 2.45pm AFTERNOON BREAK

### 3.15pm THE GREAT TRANSFORMATION

**Smart Energy Policy - Necessary & Inevitable** - John Robert Hewson AM, Tax and Transfer Policy Institute, Australian National University

**The Great Transformation: Terawatt Photovoltaic** - Martin Green, Australian Centre for Advanced Photovoltaics, University of New South Wales

**We're on the road to nowhere** - Oliver Yates, UPC Renewables

### 4.00pm CLOSE

## APPLIED ENERGY STORAGE



### 9:00am ENERGY STORAGE: BEHIND THE METER

**Innovation & New Technologies in Energy Storage** - Dong Lin, AlphaESS

**Addressing network constraints with residential battery storage: trial results** - Clara Mazzone, ITP renewables & Romele Constantino, Endeavour Energy

**Understanding your BTM project and consideration of the value stack** - Warrick Stapleton, LG Chem Australia

**Getting Out from 'Behind the Meter'** - Carol Hunter, Global-Roam

**How to Choose the Right Energy Storage Solution for Every Project** - Catherine Von Burg, Simpliphi

**Optimising battery storage systems to manage PV generation variability: with TESVOLT** - George Z Zombori, Unlimited Energy/TESVOLT

### 10.30am MORNING BREAK

### 11:00am COMMERCIAL & INDUSTRIAL SOLAR

**Designing and presenting a Commercial Solar Proposition** - Eddy May, National Renewable Group

**Commercial & Industrial Market Outlook 2018-2020** - Warwick Johnston, SunWiz

**Linked Powerhouse - A commercial off grid case study** - Jason Sharam, Linked Energy

**The future of solar, storage and the energy market** - Huon Hoogesteger, Smart Commercial Solar

**Corporate Power Purchase Agreements** - Adam Zaborszczyk, City of Melbourne

**Avoiding the Pitfalls in Corporate Power Purchase Agreements** - Anita Stadler, Energetics

### 12.30pm LUNCH BREAK

### 1.30pm ELECTRIC VEHICLES

**Electric Vehicles - time to plug in** - Vanessa Petrie, Beyond Zero Emissions

**Solar electric vehicle charging - a low emissions solution for grid constrained location** - Christopher Munnings, CSIRO

**Planning for EV charging infrastructure** - Ryan Hammond, Sealed Performance Batteries

Bruce White, Carbridge (Invited)

**Will Electric Vehicles bypass Australia? Opportunities!** - Gregory McGarvie, GetGreenEV

### 2.45pm AFTERNOON BREAK

### 3.15pm RAPID SMART ENERGY TRANSFORMATION

**In energy everything is about to change....** - Phil Livingston, Redback Technologies

**Consumer demand - why rooftop solar blow up the electricity market** - Stefan Jarnason, Solar Analytics

**Impact of solar on wholesale electricity prices and electricity demand** - Marija Petkovic, Energy Synapse

### 4.00pm CLOSE

## PROFESSIONAL DEVELOPMENT INSTALLER



### 9.00am WELCOME: OVERVIEW & HOUSE RULES

Brian England, SEIA

### 9.10am CONFERENCE DAY SPONSOR PRESENTATION

### 9.25am SMART CONTROLS: OPTIMISING SYSTEMS FOR DEMAND RESPONSE AND SELF CONSUMPTION

Karl Edmondson, Reposit Power  
 Scott Young, CatchPower  
 Shavaj Kallamkote, CarbonTrack

### 10.35am MORNING BREAK

### 11.05am BATTERY SIZING FOR ENERGY STORAGE: COMMERCIAL CASE STUDY - DESIGNING BATTERY STORAGE ON MULTIPLE BUILDINGS

Glen Morris, SolarQuip

### 11.50am ENERGY STORAGE - NEW TECHNOLOGY: SUPER CAPACITOR STORAGE TECHNOLOGY AND THEIR APPLICATION IN GRID AND OFF-GRID SYSTEMS

Paul Wilson, Arvio

### 12.30pm LUNCH BREAK

### 1.30pm STCs IN A VOLATILE MARKET: FOUR WAYS TO MANAGE STC PRICE RISK

Luke Konyonenburg, Green Energy Trading

### 2.00pm MONITORING ENERGY USE, PRODUCTION AND STORAGE PERFORMANCE

Nigel Morris, Solar Analytics

### 2.30pm MARKETING & SALES: HOW SMALL PV RETAILERS CAN SUCCEED IN AN EVERGROWING COMPETITIVE MARKET

Warwick Johnson, SunWiz

### 2.55pm AFTERNOON BREAK

### 3.25pm BATTERY SIZING FOR OFF-GRID SYSTEMS: GETTING THE DESIGN RIGHT

Glen Morris, SolarQuip

### 4.10pm CLOSING ADDRESS

Geoff Bragg, SEIA

### 4.15pm CLOSE