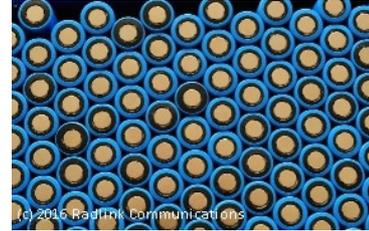


# CALL FOR PAPERS

## Solar-Diesel Hybrid & Battery Systems Conference



22<sup>nd</sup> & 23<sup>rd</sup> May 2018 - Brisbane, Australia

After the recent success of the **Solar-Diesel Hybrid & Battery Systems Conference** in Perth, **IDC Events** have scheduled the same conference in Queensland. The Perth event focused mainly on small scale installations where as this Brisbane event will explore both small and large scale hybrid installations.

**Are you an electrical engineer, energy storage specialist or solar professional working with solar-diesel hybrid and/or battery systems in the mining, industrial plants, oil and gas or the utilities industry?** We are looking for a number of presenters to submit a topic abstract now and then present their technical topic at the upcoming conference in September which has been developed to promote best practice in this emerging area.

Although renewables are still not common place or mass market in Australia yet, the time is coming. We are looking forward to a new era of clean energy. Although we are still far from achieving a clean energy environment with our continuing use of diesel, gas and coal power; we can start to cut our carbon emissions by introducing solar-diesel hybrid and battery systems into our industrial plants and settings.

New solar and battery technologies offer opportunities for industry to reduce reliance on costly diesel fuel and utilise alternative power supply options. The benefits of installing solar-diesel hybrid plants are numerous; one installation can reduce carbon dioxide emissions by thousands of tonnes a year which is an example of renewables providing substantial and reliable results for Australian industries.

Solar-diesel hybrid and battery installations reduce diesel power generation reliance. During the day the systems collect as much solar power as possible and when the sun goes down; the diesel power generation kicks in to take over the night shift. It's a beautiful relationship and prices for solar and batteries are quickly dropping making these systems more attractive.

The conference will have a technical focus, covering key design, implementation, and operational considerations for solar/diesel hybrid and battery systems including installation



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and maintenance. It will explore the differences between battery storage and inverter products, and how to design appropriate systems according to different installation and customer requirements. Also covered will be the hurdles encountered when introducing solar to an existing diesel power system, retrofitting, and the importance of maintaining consistent electricity.

This event has been developed to build and accelerate the knowledge of industry employees and business owners on best practice when it comes to the design, installation and maintenance of renewable hybrid systems. The main goal of this conference is to help businesses take advantage of cleaner energy through improving the quality of power generation systems using innovative solar-diesel hybrid and battery installations.

#### **SUGGESTED TOPICS:**

- Solar technologies
- Facilitating hybrid solar/diesel mini grids
- Key technical design, implementation, and operational considerations for solar/diesel hybrid mini-grid systems
- Case studies and projects – remote, country or metropolitan
- Small and large scale installations, renewable generation and standalone systems
- Large industrial and commercial sized applications
- Industrial applications with dynamic changing loads (500kW or larger)
- Off-grid solar photovoltaic (PV) projects
- Off-grid system standards – AS 4086.1-1993 and AS 4086.2-1997
- Energy storage standards – AS/NZS 5139:2016 and AS/NZS 4777.1:2016
- Lithium, flow, lead-acid and vanadium batteries
- Retrofitting existing systems with solar and batteries
- Battery storage
- Diesel generators - back-up or standby supply
- Full-automated control and SCADA
- Quality of supply
- Demand-driven design and operation
- Providing power to remote communities
- Diesel engines - high operational cost of diesel fuel and transportation
- Micro-grids and energy self-sufficiency
- HVAC (heating, ventilation, and air conditioning)
- Installation problems and tools for solutions
- Communication technologies
- Demand response management
- For industrial purpose (MW) how to achieve cost efficiency by installing PV + Battery for remote operations
- Arc flash, switchboard type testing
- Battery inverter manufacturing
- Hybrid technologies - wind, micro-hydro, bioenergy, geothermal, ocean/wave, solar, and wind
- Centralised generation, isolated systems
- Renewable energy

**ALL SUBMISSIONS WELCOME**



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***Join your peers in a vigorous and positive exchange of views, building your career and public profile, and making a contribution to Australian renewable energy and electrical engineering practice in this vital area!***

IDC Events are emphatically not aimed at allowing vendors to “sell” their products but rather on practical applications and solutions – probably the best way to showcase your technologies and engineering skills. In particular we are seeking practical case studies, applications, and the newest developments in this critical subject.

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### **What is required from you?**

- A **100 word abstract** which outlines the topic you would like to present. This needs to be submitted electronically as soon as possible, to secure your place.
  - Once your topic is approved, your **technical paper and PowerPoint slides** will be due six weeks prior to the event.
  - Speaking slots are allocated on topic suitability and on a first come first served basis, so please register your interest today by emailing [sarah.montgomery@idc-online.com](mailto:sarah.montgomery@idc-online.com)
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For further information on this event or to discuss sponsorship opportunities contact:

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