WHAT YOU WILL GAIN FROM ATTENDING THIS CONFERENCE:

- Accelerate your understanding of the basic principles of stand-alone power system design
- Hear how solar-diesel hybrid installations can increase storage capacity, energy efficiency and improve reliability
- Learn about Australian Standard AS/NZS 4509.1 & 2 with emphasis on key areas of sizing and safety
- Gain a comprehensive understanding of how to size, configure, and design solar-diesel and battery systems
- Discuss how renewable energy can help reduce costs and improve profitability and success
- Check out some of the latest battery and inverter models plus battery system selection including voltage and chemistry
- Network with industry experts and your peers
- No sales pitches – non-commercial presentations
- Hear local industry case studies from experienced installers and engineers

WHO SHOULD ATTEND:

- Electrical and mechanical engineers
- Electricians
- Electrical and mechanical technicians and installers
- Battery application engineers
- Project, process and applications engineers
- Technical directors and engineering managers
- Energy storage and solar professionals
- Marketing, BDM and product managers
- Smart grid engineers
- Renewable energy and power electrical systems engineers
- Manufacturing engineers

Discounts

EARLY BIRD OFFER!
10% OFF
Book on or before 8th August 2017
AND/OR
3 FOR 2 OFFER!
SAVE UP TO $1795
See back page for details

FOR MORE INFORMATION
Phone: 1300 138 522
conferences@idc-online.com
or www.idc-online.com

GLEN MORRIS
Principal of SolarQuip
Vice President of the Energy Storage Council

Keynote Speaker & Workshop Presenter:

SOLAR-DIESEL HYBRID & BATTERY SYSTEMS CONFERENCE

5th & 6th September 2017
Mercure Hotel
PERTH, AUSTRALIA

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## Conference Program – Day One – 5th September 2017

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<td>9.30am</td>
<td>Morning Tea – 10.15am</td>
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<td>Afternoon Tea – 2.45pm</td>
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<tr>
<td>2.00pm</td>
<td>Innovative Solar/Wind-Diesel Hybrid Energy Systems</td>
<td>Afternoon Tea – 2.45pm</td>
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<td>3.15pm</td>
<td>Case Study</td>
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### Key Notes

- Supply and long asset life allowing a stable energy supply which reduces the amount of diesel required. This presentation will include local WA case studies including the recent Busselton tree-nursery vanadium battery and solar installation.
- The presentation will explore an innovative renewable hybrid power pack to replace conventional diesel generators. The technology combines solar photovoltaic panels and wind generators with a variable speed generator. The engine runs at optimum speed, keeping the frequency and voltage constant which reduces diesel fuel consumption, extends engine lifetime and allows high penetration of solar power with reduced battery storage. The new hybrid power system finds applications in: solar hybrid remote area power supplies; remote mobile telecom towers; and solar hybrid drinking water treatment plants. The paper presents a few case studies from field installations in Australia and overseas.

### Special Features

- **Networking Session**: Cocktail Hour – 4.45pm to 5.45pm
  - An hour dedicated for all attendees to meet and socialise with experts and industry peers at the Solar-Diesel Hybrid & Battery Systems Conference Cocktail Hour.
8.30am  
Session 1  
FULL DAY WORKSHOP  
(Including morning tea, lunch and afternoon tea)  

Designing Stand-Alone Power Systems  
Glen Morris – Principal of SolarQuip & Vice President of the Energy Storage Council  

Attend this one day workshop to accelerate your understanding of the basic principles of stand-alone power system design. The workshop will focus on the Australian Standard AS/NZS 4509.1 & 2 with emphasis on key areas of sizing and safety.

Topics covered will include: understanding the opportunities of demand side reduction and smart energy management; battery system selection including voltage and chemistry; sub-system efficiency considerations for storage, conversion and distribution; PV system sizing to meet load energy requirement, generation losses and environmental derating factors; battery sizing for days of autonomy, balance of backup resilience and choice of secondary generation priorities.

At the completion of this workshop, participants will have the necessary design knowledge to configure and size a stand-alone power system to meet an installation’s energy needs. The workshop will be highly interactive and be led by the participants’ skills requirements.

WORKSHOP PRESENTER  
GLEN MORRIS  
Principal of SolarQuip & Vice President of the Energy Storage Council

Glen Morris has more than 20 years experience in the renewable sector and has personally lived off the electricity grid for most of that time!

Glen is passionate about the benefits of clean energy, teaching widely on renewable energy across Australia, China and New Zealand. Glen sits on Standards Australia’s EL-042 committee, which writes the industry standards for the renewable energy sector. As Vice President of the Australian Solar Energy Society (AuSES), Glen also helps develop industry training and certification which is delivered across Australia.

ABOUT THE CONFERENCE  

Renewable energy is not common place or part of a mass market in Australia yet, but its time is coming. We are looking forward to a new era of clean energy where we can start to cut our carbon emissions by introducing solar-diesel hybrid and battery systems into our industrial plants and settings.

Solar-diesel hybrid and battery installations reduce diesel power generation reliance and improve the reliability of power systems. 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 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.

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

All conference papers are reviewed and selected for their high quality and technical value by our panel of specialists experienced in the theory and practice of hybrid systems.
GENERAL INFORMATION

REGISTRATION

Confirmation Details
A confirmation email and invoice will be sent to delegates within 3 days of receiving the registration.

Cancellation Policy
A fee of 20% cancellation will apply for cancellations received 7 – 14 days prior to the start date of the conference. Cancellations received less than 7 days prior to the start date of the conference are not refundable, however substitutes are welcome.

Venue
Mercure Hotel Perth
10 Irwin St, Perth WA 6000, AUSTRALIA
Phone: (08) 9326 7000

Accommodation
The conference venue has accommodation available and are offering a special accommodation conference rate of $178.00 (room only) for a standard room. Please quote the conference reference number IDC050917 to receive the discount. Please note this rate will be based on availability.

Please book through the reservations team on 08 9326 7000 or h1754@accor.com.

Food and Beverages
Lunch plus morning and afternoon refreshments are included.

Unable to Attend
If you are unable to attend the full conference program, contact us for details to attend individual sessions or to purchase the Conference Resource Kit.

Enquiries
1300 138 522 or conferences@idc-online.com

REGISTRATION FORM:
SOLAR-DIESEL HYBRID & BATTERY SYSTEMS CONFERENCE
5th & 6th September 2017, Mercure Hotel, Perth

Simply complete this registration form online or return by email

1. DELEGATE DETAILS

Contact: Company Name:
Company Address: 
Suburb: State: Post Code: Phone:

Admin/Accounts Payable Email:

Mr/Ms: Job Title:
Email:

2. HOW DID YOU HEAR ABOUT THIS EVENT?

☐ Received an email from IDC ☐ Received a brochure in the mail ☐ Searched online (Google, Yahoo etc)
☐ Recommended by a friend/colleague ☐ Magazine advertisement/insert (please specify which magazine below)
☐ Other (please specify) ____________________________________________________________________________________

3. REGISTRATION & PAYMENT DETAILS

Prices shown are inclusive of GST

SOLAR-DIESEL HYBRID & BATTERY SYSTEMS CONFERENCE – 5th & 6th September 2017

☐ OPTION 1: Early Bird Discount 10% OFF
– Book before 8th August (SAVE $179.50)
$1615.50 x _____ delegates = $ ______________

☐ OPTION 2: Standard Rate (NO Early Bird Discount)
– Book after 8th August
$1795.00 x _____ delegates = $ ______________

☐ OPTION 3: 3 for 2 Offer AND Early Bird 10% OFF
– Book before 8th August (SAVE $2154)
3 delegates: 2 x $1615.50 = $3231.00 = $ ______________

☐ OPTION 4: 3 for 2 Offer AND Standard Rate (NO Early Bird Discount)
– Book after 8th August (SAVE $1795)
3 delegates: 2 x $1795 = $3590 = $ ______________

PLEASE NOTE: Full payment is required prior to the commencement of the conference.

TOTAL DUE = $ ______________

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