

# ISOLATED POWER SYSTEMS CONNECT 2017

# ROTTNEST ISLAND WESTERN AUSTRALIA

13 - 17th November, 2017

International technology forum  
for system operators and owners

2 days professional development AND/OR

2 days technical workshop

1 day networking tours

Visit Rottneest Islands new

Water and Energy Nexus Project

hosts



gold sponsor



sponsors



# Professional development

## HYBRID IPS PLANNING AND IMPLEMENTATION

### Hosted by the Centre for Renewable Energy and Power Systems

The IPS event will include a two day professional development course on the implementation of solar and energy storage technologies within off-grid hybrid projects. The course will proceed the conference, giving the opportunity for participants to spend a whole week on beautiful Rottneest Island. While every island power system project is unique, the developed course identifies common skills required across projects, building capability and knowledge via a range of interactive exercises.

This two day course uses the extensive knowledge and experience within the Centre for Renewable Energy and Power Systems and Hydro Tasmania to bring a pragmatic approach to integration of these new technologies within island systems. Participants will gain insights into issues specific to these technologies via interactive exercises and will have a unique opportunity to observe the newly commissioned Rottneest Island Nexus Energy Hub.

#### 13 Nov – Solar Integration

AM

Technology drivers

Market Status

Funding and delivery models

Planning, environmental and community considerations

PM

Solar Assessment:

Technology

Resource

Power system integration

Energy modelling

Uncertainty

**Solar Case study**

**Hosted Delegate Dinner**

**West Australian Seasonal Produce**

#### 14 Nov – Plus Energy Storage

AM

Design and specification

Project scheduling

Detailed design

Procurement strategies and management

Contract management

Construction and commissioning

Operations and maintenance

**ESS Case study**

PM

Rottneest Island Interactive Renewable Development Scenario

### Networking day - 15 Nov

Take the opportunity to connect with other participants while you experience the natural beauty and breathtaking scenery of Rottneest Island.

**Tours options will include a VIP tour of the adjacent Garden Island wave energy research centre, or on-island walking or cycling tours**





**DAY 1**

# Thursday 16 Nov 2017

## TECHNICAL WORKSHOP

### LESSONS LEARNT

- 8:00-8:40** Registration
- 8:40** Open from conference Chair  
**Professor Michael Negnevitsky, UTAS**
- 8:50** Official welcome  
**John Driscoll, Chairman Rottnest Island Authority**

### International Keynote

- 9:00** Batteries for Ancillary Services, Experiences from Hawaii  
**Richard Rocheleau, Hawaii Natural Energy Institute**
- 10:00-10:30** Morning tea

### Session 1: Australian Projects

- 10:30** Rottnest Island Nexus Project  
**Ray Massie, Hydro Tasmania**
- 10:50** Garden Island Micro-Grid  
**Michael Ottaviano, Carnegie Clean Energy**
- 11:10** Esperance Standalone Power System  
**Mark Paterson, Horizon Power**
- 11:30** Alice Springs Energy Storage  
**Rebecca Mills, Territory Generation**
- 11:50** Bruny Island Consort Pilot  
**Derek Jones, Tas Networks**

### Q&A session

- 12:10** Q&A session  
**Moderator: Marc White**
- 12:45-1:30** Lunch and networking

### Session 2: Australian Projects cont.

- 1:30** Daly River  
**T.B.C., Power and Water Corporation**
- 1:50** Stand Alone Power System Pilot  
**Mike Chapman, Western Power**
- 2:10** Bremer Bay  
**Antoine Le-Ray & Chris Dowe, Synergy**

### Q&A session

- 2:30** Q&A session  
**Moderator: Michael Negnevitsky**
- 3:00-3:30** Afternoon tea and networking

### Session 3: Pacific Projects

- 3:30** Pacific Case Studies  
**Andrew Daka, Pacific Power Association**
- 3:50** Cook Islands RE Integration  
**Apii Timoti, TAU Cook Islands**
- 4:10** T.B.C.  
**Mafalu Lotolua, Tuvalu Electric Corporation**
- 4:30** Solar integration into the Pacific  
**Faustino Yangmog, Yap State Public Service**

### Q&A session

- 4:50** Q&A session  
**Moderator: Ray Massie**
- 6:30-8:30** Workshop dinner



**DAY 2**

## Friday 17 Nov 2017 TECHNICAL WORKSHOP

### EMERGENT ENERGY FUTURES

**8:00-8:10** Day 1 recap and house keeping  
**Conference Secretariat: Ben Thiessen**

#### Session 4: Emergent technologies

##### International Keynote

**8:10** Yakutat Wave Energy  
**Erin Whitney**  
Alaska Center for Energy and Power

**9:10** T.B.C.  
**Ian Baring-Gould, NREL**

**9:30** Economics of Energy Storage  
**Peter Lilienthal, Homer Energy**

**9:50** St Vincent Micro-Grid Case Study  
(virtual presentation)  
**Justin Locke, Rocky Mountain Institute**

##### Q&A session

**10:10** Q&A session  
**Moderator: James Hamilton**

**10:40-11:00** Morning tea and networking

#### Session 5: Market Update

**11:00** Small Island States, Pathways and Pitfalls  
**Francisco Gafaro, International Renewable Energy Agency**

**11:20** T.B.C.  
**Kamleshwar Khelawan, The World Bank**

**11:40** Market Disruption  
**Sohail Hasnie, Asian Development Bank**

##### Q&A session

**12:00** Q&A session moderator  
**David Butler**

**12:30** Workshop close  
**Conference Chair**  
**Michael Negnevitsky**

**12:45-1:45** Lunch and networking

#### Rottnest Island Nexus Project tour and post workshop activities

**1:45-4:00** The Rottnest Island Nexus tour will include a guided group tour of the Rottnest Island water and energy Nexus project, by event sponsors Hydro Tasmania.

The tour will include the solar farm, wind turbine, diesel power station and desalination plant.

**REGISTER NOW**

<http://www.ipsconnect.org>