



ENERGY &  
INVESTMENT SERIES *Presents the 4th annual*

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# Pumped Hydro & Battery Storage Conference

Firming Australia's Renewable Energy Future

25 – 26 February 2020 | Swissotel, Sydney



## KEY INDUSTRY PRESENTATIONS FROM:



Dr Alex Wonhas, *Chief System Design and Engineering Officer,*  
**AEMO**



Mark Williamson, *Executive General Manager,*  
**Clean Energy Regulator**



Doug Jackson, *Executive General Manager Group Operations,*  
**AGL**



Joseph Pizzinga, *Chief Financial Officer,*  
**WaterNSW**



Marc Barrington, *Chief Executive Officer,*  
**SIMEC Energy Australia**



Daniel Nugent, *Portfolio Development Leader,*  
**Energy Australia**



Dr Cameron Potter, *Manager, Strategic Market Analysis,*  
**Hydro Tasmania**



Stephen Clark, *Technical and Economic Leader – Project*  
*Marinus,* **TasNetworks**



Mike Westerman, *Senior Technical Director Hydropower,*  
**GHD**



Angus McDonald, *Venture Architect,*  
**SAP Innovation Services and Solutions**



Mark Twidell, *Director, Energy,*  
**Tesla**



Simon Brooker, *Executive Director,*  
**Clean Energy Finance Corporation**



Nicola Tully, *Head of Innovation and Technology,*  
**TransGrid**



Dan Sturrock, *Director | Business Development &*  
*Transactions,* **ARENA**



Tony Clark, *Executive General Manager – Operations and*  
*Projects,* **Infigen Energy**



Christian Reilly, *Director,*  
**Altura Group**



Benjamin White, *Head of Stakeholder Relations, Community*  
*Engagement, Environment & Planning Approvals (Project*  
*Marinus),* **TasNetworks**



Marija Petkovic, *Managing Director,*  
**Energy Synapse**



Nick West, *Senior Engineer, Civil,*  
**Entura**



Dr Matthew Stocks, *Research Fellow,*  
**ANU College of Engineering and Computer Science**

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## ENERGY & INVESTMENT SERIES

The Energy & Investment Series brings together three of Informa's leading renewable energy events under the one roof. This allows the finance and investment community, service, engineering and supply industries, government agencies and the broader energy sector to switch sessions and plan a track to suit their requirements. This is great value and offers exceptional networking opportunities.

All three conferences – **The 6th Annual Large Scale Solar**, **The 4th Annual Pumped Hydro & Battery Storage Conference**, and **7th Annual Off-Grid and Stand Alone Power Conference** will be co-located at the Swissotel, Sydney on the 25-26 February 2020.

One registration to any of these conferences gives you an Access All Areas Pass to attend any of the sessions at the three events.

**That's three conferences for the price of one.** Over 80 speakers on the most cutting edge energy projects being rolled out across Australia.

## Pumped Hydro & Battery Storage Conference

Tuesday 25 February 2020

# DAY 1

**8:30** Registration & Morning Coffee

**8:50** **OPENING** | Opening remarks from the Chair

Benjamin White, *Head of Stakeholder Relations, Community Engagement, Environment & Planning Approvals (Project Marinus), TasNetworks*

**9:00** **MINISTERIAL ADDRESS**

**NSW Government**

An invitation has been extended to The Hon. Matt Kean MP, **Minister for Energy and Environment**

**9:20** **AGL Address**

Doug Jackson, *Executive General Manager Group Operations, AGL*

**9:50** **Innovating Battery Storage**

Mark Twidell, *Director, Energy, Tesla*

**10:10** **PANEL DISCUSSION**

**Energy Market Insight**

We sit down with some of the nation's leading authorities for a comprehensive discussion outlining the current state of the NEM, its overall health, and what we can expect in terms of FCAS and storage/firming demand in the short to medium term - alongside analysis on what current renewable development rates may mean for the long-term energy mix.

Dr Alex Wonhas, *Chief System Design and Engineering Officer, AEMO*

Mark Williamson, *Executive General Manager, Clean Energy Regulator*

Additional panellists to be confirmed

**10:50** Networking and refreshments break

**11:20** **CEFC: Funding, Investment & Future Plans**

Simon Brooker, *Executive Director, Clean Energy Finance Corporation*

**11:50** **Battery of the Nation**

Dr Cameron Potter, *Manager, Strategic Market Analysis, Hydro Tasmania*

### VENUE DETAILS

Swissotel Sydney, 68 Market St, Sydney NSW 2000

**Phone:** (02) 9238 8888, [www.swissotel.com/sydney](http://www.swissotel.com/sydney)

**12:20** **PANEL DISCUSSION**

**Storage Technologies & Market Opportunities**

As Australia's renewable generation capacity continues to grow the need for additional firming assets becomes ever more apparent. To examine this, we sit down with a panel of experts discussing Pumped Hydro, Battery Storage and Hydrogen in terms of their technical capabilities, market opportunity, investability, and how all of this may be shaped by increasingly common negative pricing events and government policy.

Daniel Nugent, *Portfolio Development Leader, Energy Australia*

Mike Westerman, *Senior Technical Director Hydropower, GHD*

Additional panellists to be advised

**1:00** Lunch and networking break

**2:00** **Learnings from the Hornsdale Battery Case Study**

Marija Petkovic, *Managing Director, Energy Synapse*

**2:30** **TECHNOLOGY SHOWCASE**

Insights from an international hydropower expert on the latest developments from technological innovations through to operational efficiencies and new operation strategies.

Speaker to be advised.

**2:50** Networking and refreshment break

**3:20** **Pumped Hydro Energy Storage Project - from feasibility to construction**

— Technical and skills needed over the lifecycle of the BotN project

— Niche skills for the future that need to be developed now

Nick West, *Senior Engineer, Civil, Entura*

**3:50** **Integrating transmission networks and battery storage**

Nicola Tully, *Head of Innovation and Technology, TransGrid*

**4:20** **HVDC Insights**

A look at the role for a HVDC backbone in renewables-reliant networks, the potential for significant development of similar infrastructure in Australia, and how it may shape future storage demand.

Speaker to be advised

**4:50** **CLOSING** | Closing remarks and Networking Drinks

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# Pumped Hydro & Battery Storage Conference

Wednesday 26 February 2020

# DAY 2

**8:30** Registration & Morning Coffee

**9:00** **OPENING** | Opening remarks from the Chair

**9:10** **WaterNSW**

Joe Pizzinga, *Chief Financial Officer, WaterNSW*

**9:40** **Marinus Link**

Stephen Clark, *Technical and Economic Leader – Project Marinus, TasNetworks*

**10:10** **Large-scale battery storage - the road to commercial viability**

- Significant progress has been made by large-scale batteries over the past 3 years
- A number of important technical and regulatory issues still need to be addressed
- ARENA is considering a range of projects to move the sector towards commercial viability

Dan Sturrock, *Director Business Development and Transactions, ARENA*

**10:40** **TECHNOLOGY SHOWCASE**

**SAP Trader's Toolkit**

A technical look at machine learning enable analytics, their potential to optimise and automate your market interactions, predict fluctuations, and tangible case-study level examples of how they can benefit your operations.

Angus McDonald, *Venture Architect, SAP Innovation Services and Solutions*

**10:50** Networking and refreshment break

**11:20** **SIMEC Update**

Marc Barrington, *Chief Executive Officer, SIMEC Energy Australia*

**11:50** **Learnings from Lake Bonney and next steps**

Tony Clark, *Executive General Manager – Operations and Projects, Infigen Energy*

**12:20** **Goal Hill Pumped Storage Hydro Project**

Christian Reilly, *Director, Altura Group*

**12:50** Lunch and networking break

**1:40** **Major Project Capabilities – The Coming Skills Crunch**

Analysis on the breadth of major works coming across the Energy and East-Coast Infrastructure Sectors, what this means for developers, and why 2023 may be a challenging year for the industry.

Speaker to be advised

**2:10** **Water Usage in our Energy Industry – Traditional Generation VS 100% Renewable Future**

Dr Matthew Stocks, *Research Fellow, ANU College of Engineering and Computer Science*

**2:40** **Project Case Study**

Update from one of Australia's leading large scale storage projects.

Speaker to be advised

**3:10** Closing remarks from the Chair

**3:20** **CLOSING** | Afternoon Tea and End of Conference

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ONE CONFERENCE REGISTRATION  
WILL GIVE YOU ACCESS TO ALL THREE  
CO-LOCATED EVENTS:



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# PHBSC

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Register Early & Save	Early Bird Rate				Standard Rate				Full Rate		
	Book & pay by 20 Dec 2019				Book & pay from 21 Dec 2019				Book & pay from 7 Feb 2020		
Conference Package	PRICE	GST	TOTAL	SAVE	PRICE	GST	TOTAL	SAVE	PRICE	GST	TOTAL
Two day access to all 3 conferences	\$2,595	\$259.50	\$2,854.50	\$600	\$2,995	\$299.50	\$3,294.50	\$200	\$3,195	\$319.50	\$3,514.50

For full terms and conditions, please visit:  
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