

Pumped Hydro- What, Why, and The Potential Barriers

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Hosted by Water Engineering Panel

Pumped Hydro – what is it, why we need it, and the potential barriers.

The expansion of variable energy generation (i.e. solar and wind) will require large scale storage to balance periods of low energy production. The potential to utilise pumped hydroelectric storage (pumped hydro) to provide the necessary load balancing storage is growing within Australia.

Work at ANU has identified 22,000 potential pumped hydro sites in Australia, and has shown that the pathway to 100% renewable electricity will cost less than a fossil fuel alternative.

SPEAKERS

Professor Andrew Blakers is Professor of Engineering at the Australian National University. His research interests are in the areas of solar photovoltaic energy and sustainable energy policy. He has extensive experience with basic and applied research, and led the team that developed PERC solar cell technology, which currently has approximately one quarter of the worldwide solar market. He is engaged in detailed analysis of energy systems with high (50-100%) penetration by wind and photovoltaics with support from pumped hydro energy storage.

Nick West is a civil engineer at Entura, working primarily in the fields of hydraulics and hydropower. Nick's skills range from the technical analysis of the layout of hydropower projects to the preparation of contractual project documents and computational hydraulic modelling. Nick was a key team member of the Kidston Pumped Storage Project Technical Feasibility Study and was involved throughout the development and construction of the Neusberg Hydroelectric Project in South Africa. Nick is currently the project manager of the pumped hydro studies under Hydro Tasmania's "Battery of the Nation" initiative

DATE & TIME

Tuesday 20 March 2018

Registration/Networking: 5.30pm

Formal start: 6.00pm

VENUE

PSA House
Level 10, 160 Clarence Street
SYDNEY NSW 2000

CPD

Eligible for 2.0 CPD hours

TICKETS

Members & Students free

Non-members \$30

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