

# Bombora Wave Power: Pioneering, award winning Wave Energy Converter systems



ENGINEERS  
AUSTRALIA

**Speaker:** Shawn Ryan MIEAust Executive Director - Bombora Wave Power

**Hosted by:** Joint Electrical and Electronic Papers (JEEP)

## DATE

Wednesday 10 September  
2014

## TIME

5.30 pm for a 5.45 pm start

*(Light refreshments will be  
Served after the event)*

## VENUE

Auditorium  
Engineers Australia  
712 Murray Street  
West Perth

## TICKETS (incl. GST)

Members & Students: Free

Non-members: \$30.00

## REGISTRATIONS CLOSE

COB Tuesday 9 September  
2014

REGISTER ONLINE



Representing the ITEE Panel



This event is eligible for  
1.5 CPD hours

This presentation provides an overview of the Bombora Wave Power system, ongoing technical development and commercialization activities.

The Bombora system's flexible membrane and simple valving, squeezes air through a closed circuit and extracts energy with an air turbine to generate electricity. Rated at 1.5MW, each unit may have the potential to supply renewable electricity for 500 homes or deliver 1GL of desalinated water each year, comparable to the equivalent greenhouse gas benefit of taking approximately 825 cars off the road.



The Bombora system is unique in the renewables market as it has many alternative applications of the same core technology including;

- Renewable electricity;
- Electricity price volatility arbitrage through desalinated water supply;
- Shoreline stabilization / protection for Ocean and Inland water bodies;
  - Marina and harbor wave and wake attenuation;
- Mariculture / Aquaculture;
- Offshore wind turbine spar buoy platform stabilization for deep water applications;
- Tourism – artificial reefs for diving / snorkeling / surfing; and
- Fish biodiversity and marine habitat enhancement.

Established in 2011, Bombora Wave Power Pty Ltd is a 100% Australian privately held company based in Perth. Bombora is the outright owner and developer of the Intellectual Property and the Bombora Wave Energy Conversion System. Bombora's system is award winning having previously received an international GE Ecomagination Challenge 2013 award, was a semi-finalist in the Australian Clean Technology Competition 2013 and a finalist in the 2013 WA Innovator of the Year.

## ABOUT THE SPEAKER



Shawn Ryan is a qualified mechanical engineer with 14 years consulting experience across a variety of industry sectors including, oil and gas, mining and heavy industry (power generation and petrochemical) working for companies such as SKM/Jacobs, Rio Tinto, JP Kenny, Apache, Aibel, Burrup Fertilisers and Tenaga Nasional Berhad. Shawn is a co-inventor of the technology, co-founder and Executive Director of Bombora Wave Power.