

Creating a New Australian Market Place – Offshore Renewable Energy

Wednesday, 30 April 2014

Parmelia Hilton Hotel (Swan Room), Mill Street, Perth

Registration 5.30 pm: Presentations 6.00 pm – 7.30 pm Networking over drinks and finger food 7.30 pm – 9.00 pm

Chaired by: **Henry Sheil, SUT Perth Branch Committee Member**

Award Winning Wave Energy

Shawn Ryan, Director, Bombora Wave Power

Bombora Wave Power is the developer of the patented Bombora system. The systems 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. It is unique in the renewables market in that it has many alternative applications of the same core technology including shoreline protection, marina and harbor wake and wave attenuation, marine biodiversity and habitat enhancement as well as tourism. This presentation provides an overview of the system, technical development and challenges.

The Perth Wave Energy Project - Design and Construction Update

Jonathan Fiévez, Chief Technology Officer, Carnegie Wave Energy

The Perth Wave Energy Project is currently being constructed by Carnegie Wave Energy approximately 3 km west of the southern end of Garden Island. The project employs three 5th generation CETO wave energy converters to feed the onshore power station where hydraulic energy is converted to zero emission electrical power. Australia's largest naval base and the 4000 people serving there ensure the island has a thirst for power as well as fresh water, which the project also provides through its pilot, wave powered desalination plant. The CETO 5 converter itself has a unique design that has been developed over a number of years by Carnegie's world class engineering team and in-house computational modelling capability. Many components however have their heritage in offshore oil and gas applications and Carnegie is working with some of the world's leading suppliers to adapt their technology to CETO.

The Energy Island Platform – Offshore Renewable Energy's Future

Phil Brown, Regional Director, Wood Group Kenny & Eoghan Quinn, Project/Technical Manager, Global Renewable Solutions

Wood Group Kenny along with Global Renewable Solutions present an innovative renewable energy concept: Power Platform. The Power Platform concept represents a low-risk approach to harnessing renewable energy through integrating proven solutions in offshore wind turbines and oscillating wave columns on a platform designed based on offshore oil and gas technology and experience. Through collaboration with HMRC, WavEC and WGK; GRS has developed a solution which minimises not only CAPEX but also O&M costs, environmental impact/footprint whilst minimising technical and execution risk. In this presentation, WGK & GRS present the benefits of the Power Platform concept in delivering a low risk and cost effective way to develop a hybrid renewable energy concept.

REGISTRATION FEES: SUT Members \$15: Non-Members \$35*

**Personally supported by Mark Carlton,
independent SUT Member, (Neptune
Marine employee)**



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