

EVENING TECHNICAL MEETING

5 April 2023 | 5.30pm - 8.30pm | Parmelia Hilton Perth

OUR FLOATING FUTURE IN OFFSHORE RENEWABLES – AUSTRALIAN DEVELOPMENTS GEOTECH & FLOATING TECHNOLOGY

OFFSHORE WIND - PROPOSED BUNBURY/WIND PARK

Andy Evans - Oceanex

Bio: Andy Evans commenced his offshore wind journey in 2012 as a co-founder and CEO for the first 7 years of the Star of the South Wind Farm (which is now managed by Copenhagen Infrastructure Partners and of which he still remains a large share-holder), before establishing Oceanex Energy in 2020 as the leader in the development of floating offshore wind farm projects off the coast of NSW, of which Equinor acquired a 40% stake in the project entities in late 2022.

Aside from progressing the NSW projects, including the flagship Novocastrian Offshore Wind Farm, Andy is spending a great deal of time progressing the Bunbury Offshore Wind Farm in WA and helping progress the nascent New Zealand offshore wind market, where Oceanex has 3 projects in early development phase.

*Abstract to be submitted

FIELD & MOORING LAYOUT OPTIMISATION FOR FLOATING OFFSHORE WIND - A LIFE OF FIELD TECHNO/ ECONOMIC APPROACH

Sean Van Steel - CoreMarine

Abstract: Floating offshore wind is at the cusp of becoming a commercial market. The optimisation of the wind field layout is critical for a cost effective project in both fixed and floating wind. However, the parameters for field optimisation in floating wind are significantly more complex than those in the mature, fixed wind industry.

We argue that this is primarily driven by the introduction of a mooring and dynamic cabling system. How these additional variables alter the layout and the key CAPEX effects will be discussed.

We will present a techno/economic approach to the development of the mooring system layout for the optimisation of yield and wake losses.

PLANNING FOR GEOTECHNICAL RISKS IN OFFSHORE WIND

Damon Sunderland - Arup

Abstract: Offshore wind developments must consider geotechnical risks at offshore wind turbine generators and offshore sub-stations, in the vicinity of offshore cabling, at shore crossings and at ports for construction and load-out. Australia presents some common and some unique geotechnical risks. These are often understood by local offshore oil and gas practitioners but on occasion are new to international wind practitioners establishing themselves in Australia. These geo risks shall be discussed in Damon's presentation along with selected case studies and guidance on the planning and execution of offshore ground investigations.

FLOATING WIND - HYWIND TAMPEN FLOATING WIND PROJECT

Case Study - DOF Subsea

Equinor's Hywind Tampen is the world's first renewable power source for an offshore oil and gas facility and has a system capacity of 88 MW and is currently the world's largest floating offshore wind farm. Located 140kms off the Norwegian coast in 260 – 300m water depth, it will consist of 11 wind turbines which are installed on floating concrete structures with a shared anchoring system which are tied back to the oil and gas facilities via an inter cable array to provide renewable power.

Image: DOF Subsea

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Single ticket: Members (Student/Individual/Corporate)	\$40	\$50	\$55	TBC
Single ticket: Non-Members	\$60	\$70	\$75	TBC
Group Booking: 5pax - Corporate Members	\$160	\$230	-	-
Group Booking: 10pax - Corporate Members	\$290	\$440	-	-
Season Pass: 5 tickets - Members	\$175			-
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