



SOUND OF SILENCE

Doug Cleland, IQIP

Monopile foundations are the predominantly used foundation type for offshore wind turbines. The relatively fast and cost-efficient fabrication and installation makes it preferred over other foundation types. One of the main disadvantages of the installation of a monopile foundation is the level of underwater noise caused by pile driving which could potentially be harmful for marine life, especially marine mammals. Over the last decade the industry introduced several innovations to minimize the level of underwater noise caused by pile driving. This presentation shows the state-of-the-art installation technologies including the noise reduction achieved in the field. Combined with a preview of the new innovations on the horizon for a quieter installation

DRILLED AND GROUTED FOUNDATIONS IN CALCAREOUS SOILS

James Tuckwell, LDD Australia

Drilled and grouted foundations are a common foundation type for offshore structures in Australia where calcareous soils are prevalent. These soils are highly porous and prone to dissolution that may compromise foundation stability. The dissolution process can be accelerated by groundwater flow, increasing the likelihood of subsidence, drilled hole collapse and uneven settlement. The variability in calcareous soil composition and the potential for unexpected voids necessitate thorough geotechnical investigations and continuous monitoring. This presentation describes some of these risks and mitigations for consideration in planning, design and installation.

20,000db 'DOWN UNDER' THE SEA

Andrew Ripley, Subsea 7

With the exciting announcement of the first batch of feasibility licenses being awarded for designated areas for offshore wind in Australia, a number of developers are about to embark on the next stage of design. One of the key aspects that will be reviewed is the foundation design. The type of foundation selected is driven by metocean, soils, water depth and wind turbine size to name a few key variables. The foundation choice, and hence method of installation have varying acoustic impacts that need to be understood and considered from an environmental impact perspective. This presentation leverages off Subsea7's global experiences as an offshore wind installation contractor and will provide an overview of the different foundation types, installation techniques, associated noise levels and mitigation measures that have been employed to manage noise levels.

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Registration Cost	Earlybird (ends 8 August)	Regular (from 9 August)	Onsite
Single ticket: Members (Individual/Corporate)	\$40	\$50	\$55
Student	\$25	\$25	\$25
Single ticket: Non-Members	\$60	\$70	\$75
Group Booking: 5pax - Corporate Members	\$160	\$230	-
Group Booking: 10pax - Corporate Members	\$290	\$440	-
Season Pass: 5 tickets - Members		\$175	
Season Pass: 5 tickets - Non-Members		\$290	

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