

## **Torishima Pump Mfg. Co., Ltd. & Waterise collaborate to make Subsea Desalination a reality.**

21st September 2023

Torishima Pump Mfg. Co., Ltd.(TSE Prime 6363) has entered into a collaboration agreement with Waterise of Norway to provide the main pumping equipment for their subsea desalination plants.

Waterise will design, install and operate subsea reverse osmosis (RO) desalination plants, which utilise hydrostatic pressure to push the seawater through membranes creating permeate water which will be pumped to the shore by the Torishima Pumps from the Waterise subsea desalination module. The Waterise system has a number of key advantages over conventional terrestrial RO plants such as a 40% reduction on Specific Energy Consumption (SEC) and requires 80% less land. As the system is located at 500m sea depth the water entering the system's membranes is considerably cleaner and is a constant temperature, therefore it does not require the high levels of chemical treatment necessary on conventional plants.

*'The key thing about the Waterise system is they are utilising proven RO technology, there is nothing new about the process, it's just installed subsea'* says Gerry Ashe, Torishima's Deputy CEO.

*"Torishima is delighted to adapt and supply pumps to the Waterise subsea process. We are committed to ensuring the highest efficiency pumping equipment in the RO market and reducing the Global Carbon footprint for Water Production "* says Alister Flett, COO, Torishima

Torishima Pump Mfg. Co., Ltd. is a leading supplier of engineered pumps to a number of markets including desalination. With it's headquarters in Osaka Japan it's pumping technology is used on almost every major desalination plant in the Middle East, North Africa & Australia.

Waterise is a Norwegian company focused on bringing game changing use of RO technology to the desalination market. It utilises existing RO technology with the subsea knowhow within the Norwegian Oil & Gas industry. The system reduces both energy & land use, its modularised design means it can be standardised making it both cost effective and quick to build. The Waterise system can be ready to supply water in half of the time of a conventional RO plant.

*'I'm very pleased to announce Torishima as a supplier and pump expertise partner to Waterise. Torishima is one of the most renowned pump suppliers, and I believe the cultural fit and common views on collaboration paves the way for a strong long-term mutually beneficial relationship'*, says Niels Petter Wright, CEO at Waterise.

