

Annex C – SIWW 2021 Water Expo

Explore a line-up of some 30 product and technology showcases from participating exhibitors. Here, participants will get to learn, connect and experience first-hand the latest solutions and innovations available in the market. Please reference the [SIWW website](#) for more information on the product and technology showcases.

Company	Product	Product Description
DuPont	Dry SWRO, fouling resistant SWRO and B-Free	The new dry SWRO product portfolio is a step-change innovation for the water treatment industry. Dry SWRO solutions will continue to meet or exceed technology performance standards. FilmTec™ SW30XFR-400/34 Elements are designed specifically to handle biofouling in seawater desalination plants. Elements are equipped with advanced fouling-resistant and cleanability features, helping plants reduce the number of chemical cleanings, while maintain high rejection and low energy. DuPont™ B-Free™ pre-treatment, a novel vessel-based media technology, offers purity with simple sophistication to cleaner reverse osmosis membranes and efficiently mitigates the effects of biofouling in Reverse Osmosis (RO) systems.
SUEZ	AQUADVANCED® Plant	The AQUADVANCED® Plant is an innovative software platform dedicated to real-time plant control that contributes to the preservation of resources and environment. Operators can understand, improve the performance of the plant in all its dimensions, comply with water quality regulations while optimizing operating costs through detailed monitoring of assets and their interactions.
Binnies	HELIX	An ecosystem approach to digitisation is key to releasing the full potential of a water utilities data. HELIX is a web based operational intelligence platform that integrates all the disparate data sources and analytics a water utility uses with artificial intelligence services and geospatial insight. Combined HELIX creates a dynamic virtual representation of the physical asset enabling users to proactively control and scenario options for optimised asset management throughout the water lifecycle.
Nanostone Water, Inc.	Nanostone ceramic membrane	The Nanostone ceramic membrane represents the latest technological breakthrough from Nanostone Water. This unique and patented “segmented monolith” product is the most innovative ceramic membrane technology in the market, providing exceptional reliability and robust performance across a variety of water treatment applications and helped Nanostone Water gain rapid adoption in both municipal and industrial applications.
Wavin Singapore Holding Pte Ltd	Wavin Compact Pipe and Wavin Wavin TSDOQ	With over 1.5 million meters installed worldwide, Wavin Compact Pipe can be considered as a proven and mature system. Wavin Compact Pipe technology offers the rehabilitation technique of renovating the defective pipe system by close fit lining without having to dig up or open trench. Wavin Wavin TSDOQ is a co-extruded three-layer PE 100-RC pressure pipe. TSDOQ provides maximum reliability and total security protection against point loads and surface damages without sand embedding needed in all in ground condition.

Aquaporin A/S	Aquaporin Inside® FO membrane	Forward osmosis (FO) Membrane technology has shown unique advantages when dealing with wastewater streams which contain high organic contaminant or have water quality fluctuation challenges. Based on Aquaporin Inside® FO membrane technology, the FO containerized solution (FOCS) with treatment capacity ranging from 5 to 20 m3/day is developed. This FOCS system could provide robust and simple solution for decentralized wastewater concentration and water recycling. It is suitable for wide range of applications include leachate concentration, challenging wash-water concentration, valuables recovery, etc.
PWNT-Metawater	CeraMac®	CeraMac® is an innovative and cost-effective ceramic membrane filtration process designed by PWNT. This design allows the economically feasible use of ceramic membranes on surface water for large-scale applications, as well as in reuse and desalination pre-treatment applications.
In-Situ	VuLink	VuLink is a global cellular telemetry device for remote water monitoring. The turnkey solution is easy to set up, works from anywhere and delivers long-lasting power. Instrumentation, telemetry and software work together within In-Situ's shared ecosystem to make it easier than ever to collect, access and manage data.
Alfa Laval	Alfa Laval ALDEC G3 VecFlow™ sludge centrifuge decanter	Alfa Laval ALDEC G3 VecFlow™ sludge decanter centrifuge offers unmatched efficiency for wastewater sludge thickening and dewatering. The VecFlow™ feed zone minimises turbulence, resulting in exceptional separation and 30% lower power consumption compared to traditional decanters.
De Nora	De Nora CECHLO-MS-200 on-site sodium hypochlorite generator	De Nora CECHLO-MS-200 on-site sodium hypochlorite generator uses the ion exchange membrane electrolysis process which enables to generate high concentration sodium hypochlorite of 12% and/or chlorine gas over 90%. By using three simple and common consumables – Salt, Water, and Electricity, this technology provides safe, effective, economical, and sustainable solution for water treatment needs.
PUB, Singapore's National Water Agency	NB-IoT	National Water Agency PUB has called for proposals for the "Development and trial of NB-IoT water meters". The study will give PUB an understanding of NB-IoT technology, viability, and market readiness for AMI water meter communications across Singapore. The session will brief tenderers by providing an overview of the approach, scope of work, requirements, evaluation criteria, and timing of the NB-IoT trial. The intended audience includes meter vendors, system integrators, and telcos that intend to respond to the requirement.
Zweec Analytics	AquaTEC™,) Algapro™ and BacSENSE™	AquaTEC™ is a smart biomonitoring technology that provides crucial first-line assessment of water quality to provide timely interventions for safeguarding water security. Algapro™ is an AI-based, fully-automated Phytoplankton Recognition and Counting System that AI-based automatic algae monitoring system that revolutionises algae monitoring approach. BacSENSE™ is a cutting-edge rapid microbial detection technology that enables early prevention of microbial contamination in water sources, such as E-coli bacteria.

Kurita	Kurita Dropwise Technology	Kurita Dropwise Technology is the awarded energy-saving technology that greatly improves the heat transfer coefficient of a steam heat exchanger. Normally, in a heat exchanger, a water film generated on the metal surface is a factor that hinders heat transfer. This technology can be applied while production equipment is running, contributing to energy saving and productivity improvement in a wide range of industrial fields.
Delta Marine Consultants (DMC)	XblocPlus	XblocPlus is a single layer armour block which is efficient in material use and sustainable due to its low CO2 emissions. The system is resilient to climate change as tests have shown that it can withstand waves twice as high as the design wave.
ST Engineering	AGIL TM Ops Hub	AGIL TM Ops Hub is an operational intelligence platform that enables you to respond quickly and accurately to any crisis, leading to swift and optimised operations for your business. The company will share how centralising your information and operations into a single view can give situation awareness, real-time insights for better collaboration, how Artificial Intelligence/Machine Learning enhances operations to reduce operating costs, and streamline operations through digitalisation and automation.

Information accurate as at 18 June 2021.