



SINGAPORE INTERNATIONAL WATER WEEK 2022

THE GLOBAL PLATFORM TO SHARE AND CO-CREATE INNOVATIVE WATER SOLUTIONS

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Sands Expo & Convention Centre
Marina Bay Sands, Singapore

November 2021



Executive Interview with
Chong Mien Ling
Chief Sustainability Officer,
PUB, Singapore's National
Water Agency

In this issue, we sat down with Chong Mien Ling, Chief Sustainability Officer of PUB, to talk about their inaugural [Sustainability Report](#). The report outlines the PUB's initiatives towards becoming a more sustainable organisation, including the target to achieve net zero emissions by 2050.

Besides overseeing PUB's sustainability efforts, Mien Ling is also the Director of Policy & Planning. On the back of her wealth of experience in sustainability, policy and planning, and water R&D, she sheds light on key considerations for putting this report together, as well as the framework, strategy, and initiatives that have been set out.

[Read PUB's inaugural Sustainability Report here >>](#)



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Q: Congratulations on the recent release of PUB's inaugural Sustainability Report. Can you share with our reader the drivers and considerations for putting this report together?

Worldwide, there is growing emphasis on the need to combat climate change. In Singapore, the government announced this year the Singapore Green Plan 2030, which is our national roadmap towards sustainable development and net-zero

carbon emissions. PUB's inaugural sustainability report is timely as we aim to affirm our continued commitment to sustainability to our stakeholders and build more transparency and accountability around our sustainability efforts. We also take the opportunity through our report to encourage our stakeholders to join us in our sustainability journey and play a part in protecting our waters and the environment.

Q: What are some key insights that a reader can glean from the report?

The report illustrates PUB's take on sustainability and our overall sustainability approach, with details of the initiatives that PUB intends to implement to further this objective in the future.

While this sustainability report is PUB's first, sustainability is not new to PUB. From our early efforts to build up our water resources and more recent ones in diversifying it, every one of PUB's milestones serves to strengthen Singapore's water security and sustainability. Sustainability means being able to continue to deliver our business into the long future responsibly. In this sense, sustainability is everything that PUB does – from ensuring that we have an adequate water supply in the face of climate change, having an engaged and competent workforce, to building strong partnerships with the community, and achieving business excellence. These efforts form the four main pillars of PUB's sustainability framework.

Q: PUB successfully closed the water loop some two decades ago. Today, in the face of climate change, it is working on closing the carbon loop. Could you weigh in on PUB's strategy in reducing carbon emissions?

In line with the Paris Agreement in 2015, Singapore has committed to reduce our Emissions Intensity by 36 percent from 2005 levels by 2030 and stabilise our greenhouse gas emissions with the aim of peaking around 2030. More recently, under the Singapore Green Plan and GreenGov.SG movement, the public sector aims to peak its carbon emissions around 2025, ahead of the national target. PUB's efforts towards decarbonisation are aligned with the national and public sector targets.

As PUB moves towards more diversified and climate-resilient sources of water as part of our water loop, the large energy and carbon footprint of these climate-resilient water sources pose the greatest barrier to their sustainable use. Singapore imports almost the entirety of its energy needs in the form of fossil fuels, including what is required to produce water and treat sewage. In the face of a climate-threatened future, it is then critical for PUB to not only ensure a closed water loop, but also work towards closing the corresponding carbon loop.

With PUB's indirect emissions from electricity consumption accounting for about 80% of PUB's total emissions, the most direct method would be to find ways reduce this large demand. PUB actively explores more energy-efficient technologies to be adopted in our new plants and infrastructure. They include biomimicry and pressure-retarded osmosis, which will bring down desalination

energy requirement from the current 3.5kWh/m³ to close to 1kWh/m³ at the system level in the long term.

However, with technological constraints, there is a limit to how much PUB can reduce this energy requirement. To further decarbonize our operations, PUB also actively explores alternative sources of energy to replace the current fossil fuel-based energy sources. In land-scarce Singapore, PUB's vast reservoir surfaces present great potential to harness an alternative source of energy – solar energy. To date, PUB has awarded tenders for floating solar PV systems that can generate 64MWp of solar power, the largest of which is the 60MWp system at Tengeh Reservoir which was commissioned in July 2021.

With these efforts to reduce and replace our carbon emissions, we would only be able to abate approximately 60% of our total emissions by mid-century. To achieve net zero, capturing and removing carbon that we emit is the next big task on hand. With the recent launch of PUB's Carbon Zero Grand Challenge, PUB is studying new technologies such as CCUS and carbon removal solutions that can be integrated with our water treatment facilities so that we can achieve net zero emissions by mid-century.

[READ THE FULL INTERVIEW HERE >](#)

SIWW2022 Highlights



Utility and Industry Focused Content

Look forward to a range of utility and industry focused content in SIWW2022, with an emphasis on innovation and solutions covering end-to-end of the urban water cycle. Key thematic areas include climate resilience, resource circularity and digital water.



On-Demand Access to SIWW2022 Content

For wider knowledge dissemination, all sessions organised during SIWW2022 will be available for on-demand viewing. This allows interested participants who are unable to come to Singapore to learn from the diverse content offerings. Watch out for details in January 2022!



NEWBrew Makes a Return

NEWBrew will make its comeback at SIWW2022! Brewed with NEWater, Singapore's own brand of high-grade reclaimed water, the special brew is set to return with a twist.

SIWW2022 News

Are you a regional distributor or reseller? Our exhibitors are looking to meet you at SIWW2022!

With 15 participating Country and Regional Pavilions, our international exhibitors are looking to meet regional distributors and resellers who are keen to represent their products in the Asia-Pacific region.

If you are a distributor/reseller based in the following countries, we invite you to join our SIWW2022 Water Expo Distributor Programme:

- Brunei
- Cambodia
- Indonesia
- Laos
- Malaysia
- Myanmar
- Singapore
- Thailand
- Vietnam

Email us your company name, business contact details, and company portfolio/website to Geoffrey.STEPHENS@pub.gov.sg. More details to follow in early 2022.

There are myriad of [exhibitor](#) / [sponsorship](#) / [advertising](#) opportunities for you to get involved with SIWW2022. Here's why you should:

- **Position your brand** centrally in front of a wide range of water professionals
- **Gain brand exposure**, reinforce top-of-mind recall during buyer decision process
- **Network** with like-minded delegates
- **Generate new business connections** and sales
- **Inform specific target audience** about your latest technologies and solutions

[READ MORE >](#)

To make a booking, email us at sales@siww.com.sg

SPONSORS NEWS



For over 70 years, DuPont Water Solutions has strengthened businesses and communities worldwide, from pioneering the world's first spiral-wound membranes, to assembling the most extensive range of solutions that integrate ultrafiltration, nanofiltration, reverse osmosis, ion exchange, and electrodeionization technologies, to leading the development of sustainable methods of water management.

We are determined to help customers unlock success, we pair our global scale and expertise in application development with experience in local watersheds and industries. This means we form robust relationships with key stakeholders throughout the water industry, providing access to local water ecosystems. To learn more about us, visit <https://www.dupont.com/water>



Memstar's 4th generation (4G) TIPS PVDF membrane technology is ready for commercialisation after years of development and testing. A pioneer in TIPS PVDF hollow fiber development, Memstar's latest innovation builds on its

reputation for supplying ultrafiltration membranes with unmatched durability and chemical tolerance. 4G TIPS has as much as 10 times higher strength than the conventional PVDF fibers and can be aggressively cleaned at pH in the range of 1-14, as well as strong oxidizing reagent such as ozone.

This combination of strength and chemical tolerance provides owners with confidence that the product will perform at the highest level over the long-term in the most challenging membrane bioreactor (MBR) applications. To learn more, visit <http://www.memstar.com.sg/>

IMPORTANT NOTICE

EXHIBITOR ADVISORY NOTE - Warning against dealings with questionable practices

As we gear up for SIWW2022, we would like to urge exhibitors to exercise caution when dealing with companies that have asked you to update or correct your data with fair directories and subsequently claimed fees.

We want to assure our visitors, delegates and exhibitors that we take data protection seriously. To avoid possible unwarranted and/or unnecessary financial commitments, please view this advisory note and other important points for you to take note of [here](#).

In the event that you are being approached, please forward a copy of the communication to info@siww.com.sg.

ORGANISED BY

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