

The logo for NANOSUN, featuring the word "NANOSUN" in a bold, italicized, blue sans-serif font. The text is enclosed within a red, glowing, oval-shaped outline that has a slight 3D effect. The background of the entire slide is a vibrant blue with abstract elements: a molecular structure of spheres and connecting lines on the left, a glowing blue chip with circuit traces on the right, and a glowing blue sphere with a chip on the bottom left. The overall aesthetic is high-tech and futuristic.

NANOSUN

URBAN SOLUTION & SUSTAINABILITY R&I CONGRESS 2026

**Tech Business Session
5th February 2026**

NanoSun Pte Ltd

Why We're Here

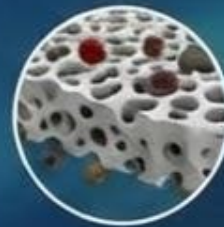
We believe in augmenting water technologies, not replacing it.



With good data, the right technology, and people, we can solve hard problems and **change the world for the better.**



In 2013, a Spin-Off from Nanyang Technological University started our very first product: **3D Printed Flat-Sheet Membrane.**



To address the Filtration Technology most pressing problem – fouling, we developed **3D Printed Technology for Flat-Sheet Membranes for Micro and Ultra-filtration Application.**

WHAT WE ACHIEVED

Help our partners resolve:



Integrated Treatment Systems for Industrial Water Resilience

Robust solutions for continuous water supply and management.



Use Resource (Chemical, Energy and Cost) Sustainably for Water Reuse

Optimizing consumption for eco-efficient water recycling.



ASIA PACIFIC TECHNOLOGY INNOVATION AWARD WATER FILTRATION



Winners of :
Best Innovation Award 2021
Emerging Enterprise Award 2021

Presented by The Business Times & OCBC Bank



GLOBAL WATER AWARDS 2019

Nominee







IES 2025 Sustainability Award



We build NanoSun around Mission-Driven Engineering

Branch our application into all facet of the IW business.

Nano-Ti Hollow Fiber Membranes:


-  Curtain Type and Pressure Vessel
-  Super-Hydrophilic Membrane which significantly reduces fouling tendency.
-  Reduce fouling tendency up to 25% compared to non-modified Hollow Fibre Membrane
-  Increase membrane lifespan




Our Advanced Membrane Technologies



NANOSUN




Nanosun Membrane Ti-PVDF Hollow Fibre Membrane
Product Brochure



The Frontier of 3D Printing in Nanomaterial

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NS-MBR Series

NANOSUN Nano Sun NSMBR Series
Additive Manufactured Submersible Flat Sheet Membrane Module for Membrane Bioreactor (MBR)



Partner in Industrial Wastewater Treatment & Recycle

Nano Sun creates innovative membrane technology to improve MBR system performance

Nano Sun, a spin-off company from Nanyang Technological University is a Singapore based membrane manufacturing company with its own highly competitive research and development (R&D) team. With more than 20 years' research experience and technological accumulation in the multifunctional nano composite membrane and water industry, Nano Sun is one of the only few companies that are able to in-house mass produce membranes with strong R&D support and also possess robust wastewater treatment system design capability - a solid one-stop solution provider for customers with wide range of demands.



Nano Sun Additive Manufactured Membranes innovates Nanotechnology to produce high quality MBR modules.

The "Module Code: NSMBR" series is the submerged flat sheet Additive Manufactured Membrane module, which are used for the Containerized MBR (CMBR) series, or can be retrofitted into existing MBR systems. It is the primary barrier to separate the suspended solids to produce particle-free effluent¹. The Additive Manufactured Membrane is a state-of-art innovation that was developed to produce superior effluent quality with higher flux at lower operating pressure.

¹≥ 95% particle rejection rate for 0.4µm

Collaboration Partner



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NANOSUN

Strengthened RO Membrane Element NSRO HR-440-I

- Excellent Rejection of **99.75%**
- Permeate flow increase of **20% over conventional membrane**
- Integrated desalination layer with improved fouling resistance



Innovative design of feed spacer channel to optimise turbulent cross flow
Reduced pressure loss, simple and efficient installation, suitable across various applications


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High Rejection RO




Ti-Hollow Fiber Pressure Vessel

NANOSUN



NanoSun Ti-PVDF Pressure Vessel Hollow Fibre Membrane
Product Brochure



The Frontier of 3D Printing in Nanomaterial

Ti-Hollow Fiber Curtain

What we do

- We're focused on creating the best IW Solutions to manage used water sustainably.



Our People are Engineers on a Mission.

We go where we're needed most:

Nano-additives targeted to reduce chemical across including coagulation, flocculation, anti-fouling, anti-scaling, and microbial control in water and wastewater management.



Reduce chemical use;



Improve pollutants removal; and



Reduce secondary pollution and sludge.

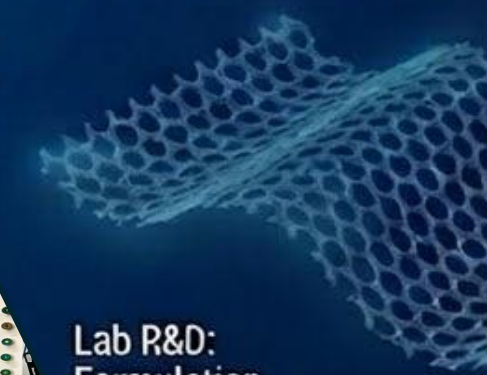


Lab R&D:
Formulation



Field Application:
On-site Support

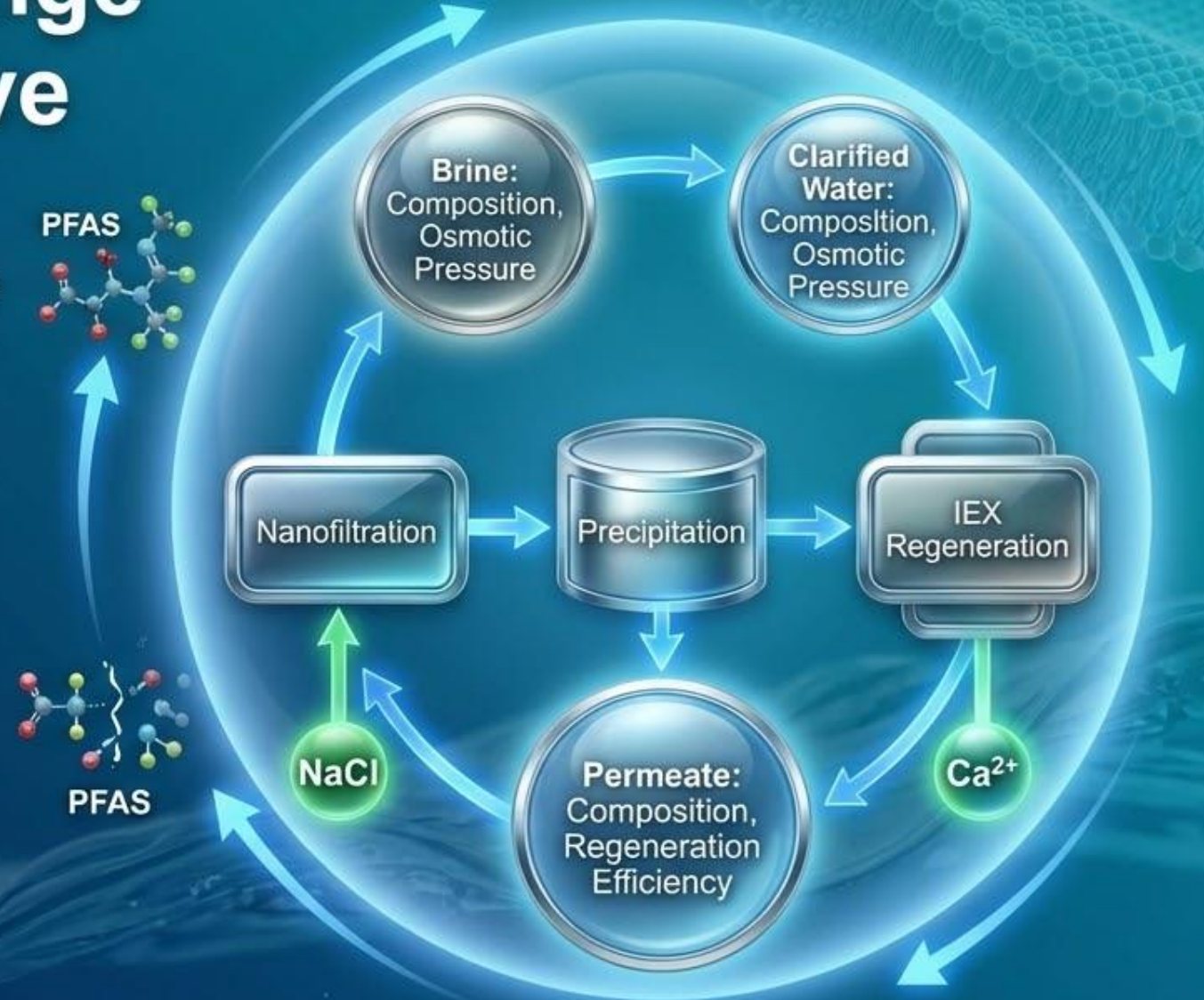
Data Analysis:
Performance Monitoring



An emerging challenge we are trying to solve

Per- and polyfluoroalkyl substances (PFAS) removal – these “forever chemicals” for growing concerns in modern cities and its severe health threats.

Our Advanced hybrid technology demonstrated the ability to remove these persistent chemicals.



WHERE WE'RE GOING



- Organizations around the world are partnering with NanoSun to help them manage Industrial Water sustainably



- With NanoSun, manufacturers are reducing cost of water treatment and identify potential water streams for reuse.



- We are working to build a future in which commercial enterprises can use NanoSun technologies to build Singapore in a sustainable manner.



**BUILDING A
SUSTAINABLE FUTURE**



THE ASK (CALL TO COLLABORATION)



Expand Applications:
Open new fields or sectors for our nano-additives and 3D Printed membrane technology.



Scale Advanced Tech:
collaborate on hybrid advanced technology for PFAS removal.



Objective: Build a Singapore where advance manufacturing partners use water sustainably with NanoSun.




Let's Solve Hard Problems Together




Thank You!

Connect with us:

 <https://www.nanosun-main.com/>

Reach Out to us:

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