



IGAWARA CORPORATION PTE LTD

井河原私人有限公司

WATER TREATMENT MEMBRANES DIVISION



QUALITY POLICY

We deliver bias-free customer satisfaction
through the effective implementation of
ISO 9001 and **AS9120**
Compliant quality systems

We shall:



Never compromise and
put profit above the quality
management system.



Conduct stringent check on
the reliability of customers
and vendors.



Only engage in businesses
where long term relations
with customers and vendors
are sustainable for the mutual
benefit of all parties.



Adhere to customer
requirements and
specifications to achieve
total customer satisfaction.

Service with a Difference

- Delivering service that consistently exceeds expectations
- Providing comprehensive, end-to-end integrated solutions
- Ensuring reliable performance for critical operations
- Driven by expert engineering and strict quality control
- Manufactured in compliance with global ISO standards
- One trusted partner from concept to completion
- Proven track record across international projects
- Extensive experience in global trade and logistics
- Delivering value through cost efficiency and reliability
- Rapid response with solutions tailored to your needs



WATER MEMBRANES OVERVIEW

CONNECTING CHINA'S MEMBRANE TECHNOLOGY WITH GLOBAL WATER PROJECTS

IGAWARA is a specialized membrane sourcing partner, connecting advanced membrane technologies — MF, UF, NF, RO, MBR and EDI — with water treatment projects worldwide.

Leveraging a strong sourcing network across China and Asia, we focus exclusively on membrane technologies for seawater desalination, municipal water purification, wastewater treatment, industrial water reuse and ultrapure water production.

China has built the world's largest membrane technology ecosystem, with massive manufacturing capacity (60+ million m²/year), over 200 RO/NF specifications, and thousands of successful global applications. These technologies are now deployed across the Middle East, Asia, Africa and the Americas.

Our role is simple: we help you select the right membrane for your application, qualify reliable suppliers, ensure quality control and manage logistics — so you get the right membranes, on time, at the right cost. No engineering packages, no complex integration — just membrane supply that works.



OUR APPROACH

China Membrane Technology

Direct access to advanced and cost-effective membrane manufacturing from China's leading producers. Chinese membrane technologies are now fully comparable to top global brands in terms of performance, reliability and service life, while offering significant cost advantages. We identify proven membrane products — MF, UF, NF, RO and MBR — across a wide range of specifications and applications.

Global Sourcing

Connecting customers with qualified membrane suppliers across China, Asia and other key manufacturing markets. We compare technical specifications, quality standards, cost and delivery capabilities to identify the most suitable membrane options for each project.

Tailored Membrane Supply

Matching the right membrane products to your specific project requirements — whether for seawater desalination, municipal water, industrial reuse, wastewater treatment or ultrapure water. We help customers source membranes that are commercially competitive and technically fit for purpose.

International Delivery

Supporting EPC contractors, project owners and industrial customers with reliable supply and project coordination. We coordinate technical documentation, quality requirements, logistics and delivery to help ensure smooth execution from supplier to project site.

TECHNOLOGY PORTFOLIO

GLOBAL WATER TREATMENT TECHNOLOGY PORTFOLIO

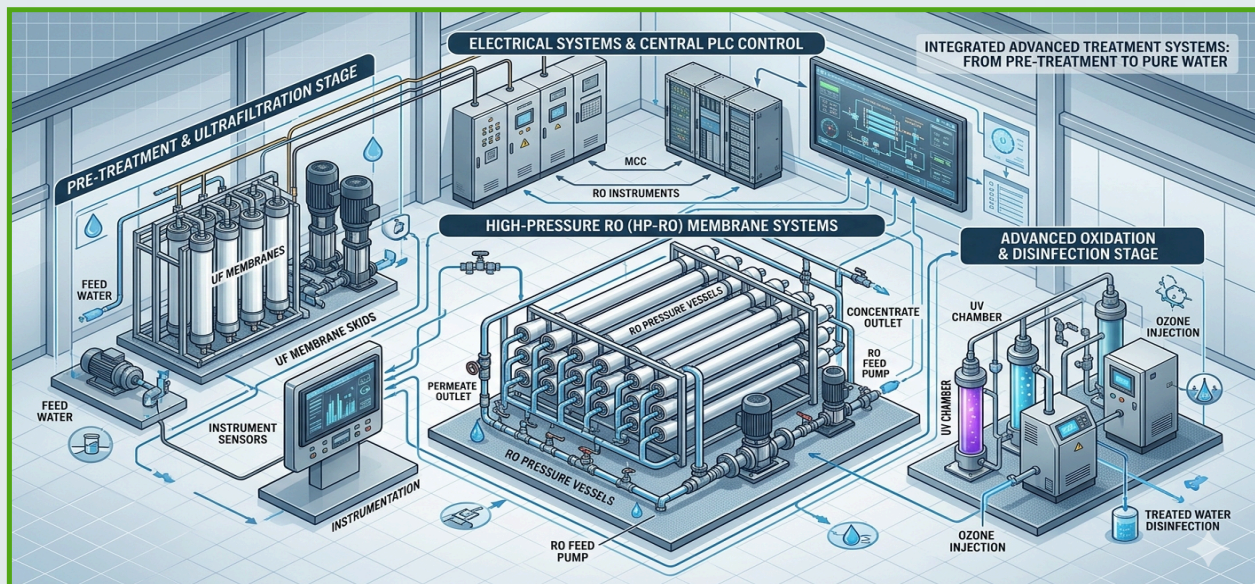
Igawara brings together a comprehensive portfolio of water treatment technologies, sourced from established global partners:

Membrane Technologies

Technology	Application
MF (Microfiltration)	Suspended solids removal, pre-treatment
UF (Ultrafiltration)	Colloid and pathogen removal, pre-treatment
NF (Nanofiltration)	Selective ion removal, softening
RO (Reverse Osmosis)	Desalination, high-purity water production
MBR (Membrane Bioreactor)	Municipal and industrial wastewater treatment
SMF (Submerged Membrane Filtration)	Large-scale water and wastewater treatment

Advanced Treatment Systems

- **ZLD Systems**
Zero Liquid Discharge for maximum water recovery and minimal waste
- **EDI (Electrodeionization)**
Ultrapure water production for power, electronics, and pharmaceuticals
- **Advanced Oxidation**
Degradation of recalcitrant organic compounds and emerging contaminants
- **Membrane Distillation**
Low-grade heat driven desalination for high-salinity brine concentration
- **Ion Exchange**
Selective removal and recovery of specific ions from industrial streams
- **Electrocoagulation**
Chemical-free in-situ coagulant generation for emulsion & heavyals



GLOBAL TECHNOLOGY NETWORK

INTEGRATING CHINA'S PREMIER MEMBRANE TECHNOLOGY RESOURCES

Igawara partners with leading Chinese membrane technology providers, including national-level “Specialized and Sophisticated” enterprises and manufacturers exporting to 130+ countries.

China represents the world’s largest membrane technology market, with approximately 29% of global output, the largest R&D talent pool, and the highest volume of membrane patents. Through our strategic partner network, Igawara connects your projects directly to this powerful technology ecosystem.

The Network at a Glance

Capability	Scale
Combined annual membrane production capacity	60+ million m ²
Cumulative global applications	20,000+ projects
RO/NF specifications available	200+
Export countries	130+
Active patents held by our partners	2,000+
Global project track record	24+ countries

IGAWARA ADVANTAGE

- Direct factory sourcing reduces overall equipment and project costs significantly.
- Integrated coordination streamlines procurement and overall project delivery.
- Single-point responsibility reduces project and interface-related risks significantly.
- Intelligent optimization improves overall energy efficiency and performance.
- Optimized design extends membrane service life and overall system performance.

CUSTOMER VALUE AT A GLANCE

Value Dimension	Customer Impact
CAPEX Savings	20–30% potential savings Direct sourcing reduces equipment and project costs.
Time Savings	Weeks faster coordination Integrated coordination streamlines procurement and delivery.
Risk Reduction	Lower project & interface risk Single-point responsibility reduces project and interface risks.
Energy Efficiency	15–20% lower energy consumption Intelligent optimization improves energy efficiency and performance.
Membrane Life	Up to 30% longer service life Optimized design extends membrane life and performance.

MEMBRANE SOLUTIONS

ADVANCED TECHNOLOGY FOR DIFFICULT WATER

The most challenging water projects require more than a single treatment process.

They demand the right combination of pretreatment, membranes, biological treatment, separation, polishing and recovery technologies — engineered around the specific water challenge.

1. SEAWATER DESALINATION

MAXIMIZE RECOVERY. MINIMIZE ENERGY.

SWRO · UF Pretreatment · Energy Recovery · High-Pressure Systems

Municipal and industrial desalination for water-scarce regions.

150,000 m³/day · Saudi Arabia

2. HIGH-SALINITY WASTEWATER & ZLD

MAXIMIZE WATER RECOVERY. MINIMIZE LIQUID DISCHARGE.

NF · RO · Evaporation · Crystallization · ZLD

For high-salinity industrial wastewater where conventional discharge is impractical.

12,000 m³/day · China

3. ADVANCED WATER REUSE

TURN WASTEWATER INTO A WATER RESOURCE

MBR · UF · RO · Advanced Biological

High-quality water recovery for industrial processes and cooling systems.

35,000 m³/day · Thailand

4. ULTRAPURE WATER

STABLE WATER FOR PRECISION MANUFACTURING

EDI · TOC UV · Fine Filtration

High-purity water systems for semiconductor and advanced manufacturing.

5,000 m³/day · Taiwan, China

5. COMPLEX INDUSTRIAL WASTEWATER

TREAT WHAT CONVENTIONAL SYSTEMS CANNOT

Advanced Biological · Bioaugmentation · Specialized Membranes

Engineered for difficult contaminants, high organic loading and variable wastewater.

22,000 m³/day · Central Asia

FROM APPLICATION NEED TO MEMBRANE SOLUTION

Whether it's seawater desalination, high-salinity ZLD, industrial water reuse, ultrapure water or complex industrial wastewater — we supply the membranes that make these systems work. No engineering packages, no integration complexity. Just the right membrane, at the right cost, delivered on time.

PROJECT TRACKS

WHERE CHINA WATER TECHNOLOGY IS MAKING AN IMPACT

From large-scale seawater desalination and oilfield produced-water reuse to municipal water infrastructure and advanced wastewater treatment, advanced membrane technologies from China are playing a critical role in projects across the Middle East, Central Asia, Southeast Asia, Africa, South Asia and the Americas.

SELECTED GLOBAL PROJECT TRACKS

- MIDDLE EAST

1. AL TAWEELAH SEAWATER DESALINATION · UAE

SWRO · Large-Scale Desalination · EPC

900,000 m³/day

One of the world's largest SWRO desalination projects, delivered by PowerChina. The project integrates desalination, intake and outfall systems, filtration and locally manufactured equipment.

Membrane technology: Seawater RO membranes for high-rejection desalination.

International Benchmarks: Toray · Hydranautics · LG Water Solutions · DuPont

2. JAFURAH SEAWATER DESALINATION · SAUDI ARABIA

SWRO · Oil & Gas Infrastructure · Water Transmission

80,000 m³/day

A major water infrastructure project supporting Saudi Aramco's Jafurah gas development, combining SWRO desalination, intake/outfall, power distribution and water transmission.

Membrane technology: SWRO membranes with energy recovery for high-salinity feed water.

International Benchmarks: DuPont · Toray · Hydranautics · LG Water Solutions

- CENTRAL ASIA

1. KBM PRODUCED WATER TREATMENT & REUSE · KAZAKHSTAN

UF · RO · Produced Water · Water Reuse

17,000 m³/day

A major produced-water treatment and reuse facility using UF + RO membrane technology, enabling treated water to meet industrial boiler-water requirements.

Membrane technology: UF + RO dual-membrane system for produced water reuse.

International Benchmarks: DuPont · Toray · Hydranautics · NX Filtration

2. ASTANA WATER SUPPLY PROJECT · KAZAKHSTAN

Water Supply · Pumping · Transmission · EPC

342,000 m³/day intake capacity

A major EPC water infrastructure project including intake pumping, booster stations, approximately 400 km of transmission pipelines and a 210,000 m³/day water treatment plant.

Membrane technology: UF membranes for surface water pretreatment ahead of RO.

International Benchmarks: DuPont · Toray · SUEZ · Pentair

PROJECT TRACKS

SELECTED GLOBAL PROJECT TRACKS

- SOUTHEAST ASIA

1. CHANGI AIRPORT T5 WASTEWATER TREATMENT · SINGAPORE

MBR · Advanced Wastewater Treatment · Water Reuse

3,750 m³/day

OriginWater's Singapore airport project using its proprietary MBR technology, with process design and core equipment supply.

Membrane technology: MBR membranes for advanced biological wastewater treatment and reuse.

International Benchmarks: MANN+HUMMEL · Toray · Mitsubishi Chemical · SUEZ

2. INDUSTRIAL WATER REUSE & SEAWATER UTILIZATION · SOUTHEAST ASIA

Water Reuse · MBR · Seawater Utilization

15,000–80,000 m³/day

Selected projects covering industrial water reclamation in Malaysia and seawater utilization in Indonesia, including high-quality industrial water production and resource recovery.

Membrane technology: MBR for industrial water reclamation + RO for seawater utilization.

International Benchmarks: MANN+HUMMEL · Toray · DuPont · LG Water Solutions

- AFRICA

1. MOKOLO–CROCODILE RIVER WATER AUGMENTATION · SOUTH AFRICA

Water Infrastructure · Pumping · Transmission

75 million m³/year

A large-scale water transfer project involving intake structures, pumping stations, settling facilities and approximately 142 km of water transmission pipelines.

Membrane technology: UF membranes for surface water treatment at point of use.

International Benchmarks: DuPont · Toray · SUEZ · Veolia

2. RAW WATER & DEMINERALIZED WATER SYSTEM · ZIMBABWE

RO · Demineralization · Water Treatment

RO-based treatment

An African market project incorporating advanced RO membrane technology, with reported salt removal of up to 99.2%.

Membrane technology: RO membranes for demineralized water production.

International Benchmarks: DuPont · Toray · Hydranautics · LG Water Solutions



PROJECT TRACKS

SELECTED GLOBAL PROJECT TRACKS

- AMERICAS

1. SAO LOURENÇO WATER SUPPLY PROJECT · BRAZIL

Municipal Water · Investment & Operation · Large-Scale Supply

410,000 m³/day

A major municipal water supply project developed and operated with Chinese investment participation, supplying clean water to approximately 2 million people across seven municipalities.

Membrane technology: UF membranes for surface water purification supplying 2 million people.

International Benchmarks: DuPont · Toray · SUEZ · Veolia

2. SANTO DOMINGO WATER SUPPLY PROJECT · ECUADOR

Water Supply · Water Treatment · EPC

~500 L/sec additional capacity

A comprehensive water infrastructure project including intake works, transmission pipelines, pumping stations and a water treatment plant, providing additional drinking-water capacity for approximately 500,000 people.

Membrane technology: UF + RO membranes for drinking water production.

International Benchmarks: DuPont · Toray · SUEZ · LG Water Solutions

- SOUTH ASIA

- GAMPAHA-ATTANAGALLA-MINUWANGODA INTEGRATED WATER SUPPLY · SRI LANKA

Municipal Water · Treatment · Distribution · EPC

54,000 m³/day

An EPC water supply project comprising a water treatment plant, approximately 589 km of distribution networks and five elevated water tanks, serving more than 600,000 people.

Membrane technology: UF + RO membranes for municipal drinking water supply.

International Benchmarks: DuPont · Toray · SUEZ · LG Water Solutions

- CENTRAL ASIA

- CHOLPON-ATA WASTEWATER TREATMENT PLANT · KYRGYZSTAN

Wastewater Treatment · EPC+O · Municipal Infrastructure

14,000 m³/day

A modern wastewater treatment project delivered under an EPC + O&M model, combining construction and subsequent operational support.

Membrane technology: MBR membranes for municipal wastewater treatment.

International Benchmarks: MANN+HUMMEL · Toray · Mitsubishi Chemical · SUEZ

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OUR BUSINESS COVERAGE 我们的业务范围



Oil & Gas E&P



Petrochemical / Refineries



Aerospace



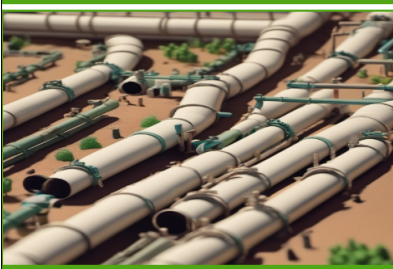
Energy Generation



Nuclear



Marine & Offshore



Cross Country Pipeline Projects



Automobile



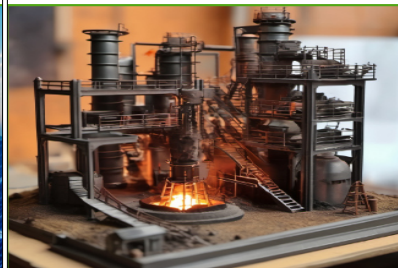
Water Treatment & Desalination Plants



Infrastructure



Renewable Energy



Smelting Plant



Precision Engineering Equipment



Data Center



Pulp & Paper



LNG



Construction Industry



Industry Plants



Chemical / Pharmaceutical Plant



Laser Cutting, Robot

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