



INDUSTRIAL WATER ENGINEERS (M) SDN. BHD.

Reliable Quality and Performance Guarantee





ABOUT US

Headquartered in Malaysia, Industrial Water Engineers (IWE) focuses on delivering innovative and cost-competitive technologies supported by strong in-house technical expertise to provide complete and reliable water and wastewater treatment systems.

At IWE, we continuously expand our knowledge, capabilities, and services to better support our clients, drawing from a strong portfolio of proven projects. Our team is equipped with a wide range of water and wastewater treatment processes and technologies, enabling us to customize and optimize solutions tailored to each client's specific operational and environmental requirements.

Our commitment to excellence is supported by internationally recognized standards. Industrial Water Engineers (IWE) operates under ISO 9001 certification, ensuring that every water and wastewater treatment system we design and deliver meets high global quality benchmarks.

OUR VISION

To make the world a cleaner place.

OUR MISSION

To provide cost-effective integrated wastewater treatment solutions with the latest proven technologies.

OUR POLICY

We are committed to delivering high-quality, cost-effective wastewater and water treatment solutions through innovation, compliance and continuous improvement, ensuring customer satisfaction and environment sustainability.





A HISTORY OF DESIGN & BUILD

For a quarter century, Industrial Water Engineers (IWE) has been at the forefront of designing and building water and wastewater treatment plants. Since our early beginnings, we have steadily grown into a trusted engineering partner, delivering reliable treatment systems that support industries and communities alike. Through both turnkey project delivery and conventional engineering contracts, IWE has consistently focused on introducing innovative and cost-competitive technologies. Backed by strong in-house technical expertise, our team ensures that every system is thoughtfully engineered, carefully executed, and built to perform.

DESIGN LEADER

Superior quality is engineered into every technology we deliver. This commitment is supported by our strong reputation for providing dependable water and wastewater treatment solutions, trusted repeatedly by clientele around the world. We continuously expand our knowledge and capabilities through a growing portfolio of proven projects, enabling us to better support our clients with reliable and effective treatment systems.

MARKET WE SERVE

We have acquired significant strength and wealth of knowledge and experience over the years. We have successfully completed World Class Standard's Water and Wastewater Treatment Plant for comprehensive range of industries: Municipality, Vegetable Oil Refinery, Food and Beverage, Rubber Glove, Metal Finishing, Oleo-Chemicals, Semiconductor, Textile, Sewage, just to name a few.



20 MLD Water Treatment Plant

GROUND WATER SOLUTION

Safe, Clean, Reliable Water for Every Community

Groundwater is widely regarded as a high-quality water resource with naturally stable temperatures. For groundwater abstraction, large storage facilities or extensive water conveyance systems are generally not required, making it an efficient and practical water supply option. As a result, groundwater is widely utilized for various purposes, including domestic, commercial, industrial, and agricultural applications.

Groundwater – Dependable, Stable, and Always Flowing

Advanced wire screen technology has been developed to improve the efficiency and reliability of groundwater wells. These technologies are derived from extensive experience and technical expertise originally applied in the manufacturing of precision screen internals for oil refineries and petrochemical industries.



SUSTAINABLE WATER, SMARTER FUTURE



Treatment without Chemicals

A proprietary technology with regional track records including Malaysia, provides an ideal cost-effective treatment solutions, in comparing to traditional WTP in treating river water. This technology features Low Opex, ie, requiring fewer chemicals and power consumption, as groundwater typically has less surface contamination. While most WTPs have to scale down the operation during rainy season due to high TSS loads, this proven technology (which is not affected by seasonal variation of river water quality) is able to supply clean water continuously to meet demand.

Unlike traditional WTP that requires comprehensive process (aeration, coagulation, flocculation, clarifier, filter), the treatment requires only one process tank to execute oxidation and filtration/backwashing. The user-friendly treatment process is simple in design, hence, low capex and short delivery time.

This technology is a holistic solution, covering from the well intake screening to the tailored treatment process.



PROCESS WATER TREATMENT/ WATERWORKS



PROJECT SHOWCASE



Lamella Plate Clarifier



3,600 m³/day Sand Filtration



6,000 m³/day Process Water System

23 MLD Water Treatment Plant



We have implemented many potable and process water treatment systems from concept to commissioning. These units range from simple side stream filtration to complex multi-step treatment plants to meet specific design conditions. The ranges of water treatment plants implemented included: -

- Flocculation Clarification
- Cascade Aeration
- Sand Filter, Activated Carbon Filter
- Softener, Ion Exchange
- (Dual Bed, Mixed Bed)
- Reverse Osmosis, Ultrafiltration
- UV (Disinfection / TOC Reduction)

From Source to Use: Water Treatment Done Right

From municipal potable water systems and rural water schemes to industrial facilities requiring pure process water, we deliver safe, reliable, and high-quality water wherever it is needed. Serving a wide spectrum of clients—from local water operators to multinational companies in Pharmaceutical, Microelectronics, and Food & Beverage sectors—we provide solutions that ensure regulatory compliance, consistent water quality, and efficient water use across all operations. We help industries and communities maintain safe water standards and implement sustainable practices.



RO System



Circular Clarifier



Multimedia Filter

INDUSTRIAL WASTEWATER TREATMENT

Meticulous attention to detail ensures that every effluent is properly managed and all regulatory requirements are met; we therefore apply careful analysis of wastewater composition and flow, leveraging advanced treatment technologies to design systems that deliver reliable, high-performance results tailored to each client's specific needs.

Our technologies promote cleaner water, sustainable operations, and full compliance with local and international environmental standards—helping protect the environment and preserve precious water resources for future generations



Biological Nutrient Removal (BNR) Technology at Seafood Processing (5,000 m³/d)

IWE provides the following technologies for the treatment of wastewater:-

Screening System:

Static Screen, Rotary Drum Screen

Aerobic Biological Process:

SBR, ASP, MBBR, MBR, BNR

Sludge Dewatering:

Belt Press, Screw Press, Filter Press

Physical/Treatment System:

DAF, Chemical Preparation Unit, Lamellar Plate Clarifier

Anaerobic Biological Process:

Digester, UASB, EGSB, IR

Physical/Treatment System:

DAF, Chemical Preparation Unit, Lamellar Plate Clarifier

PROJECT SHOWCASE



Proprietary Biocarriers



1,000 m³/d
F&B WWTP



2,000 m³/d
MBBR Technology
(Oleochemical Plant)



3,000 m³/d
Chicken Processing WWTP



2,000 m³/d
Chicken Processing WWTP



19,200 m³/d
Paper Mill Processing
WWTP



3,500 m³/d
Rubber Glove WWTP



SBR Technology at Flavor
Processing Plant

RECYCLE WATER

We prioritize delivering efficient and reliable recycled water solutions through thorough evaluation of water quality, operational requirements, and system performance, enabling clients to maximize return on investment (ROI) while advancing a more sustainable future.

With a strong focus on engineering precision and long-term reliability, IWE solutions are designed to deliver consistent performance, optimise operational costs, and maximise ROI while contributing to sustainable water management for the future.



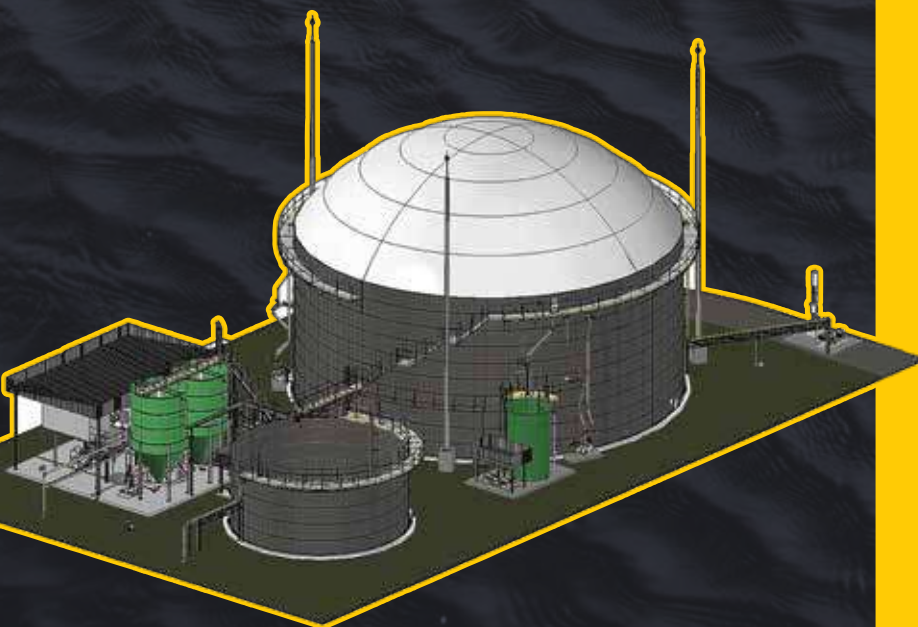
Recycle UF System



Recycle RO System

ANAEROBIC DIGESTOR

3D MODELLING FOR SEAFOOD PROCESSING AD



The anaerobic digestion (AD) technology is a highly effective solution for converting organic waste streams into renewable energy and valuable by-products.

Through the biological breakdown of organic material, the system produces biogas and nutrient-rich digestate, helping to reduce waste disposal challenges while generating renewable energy. This process lowers overall carbon emissions, improves waste management efficiency, and supports a more sustainable and resource-efficient future.

OUR COVERAGE

FOOD & BEVERAGES



CHICKEN PROCESSING



PALM OIL PROCESSING



LIVESTOCK, RUBBER GLOVE PROCESSING & LEACHATE



DISSOLVED AIR FLOATATION (DAF) & BIOGAS SYSTEMS



OTHER PROJECTS



OUR COVERAGE

Journey with Trusted Partners



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