INDUSTRIAL WATER ENGINEERS (M) SDN. BHD.

Reliable Quality and Performance Guarantee

Palm Oil Refinery, Jakarta

Double Membrane Gas Holder, Sabah

Food Processing, Malaysia

Fish Processing, An Giang Ho Chi Minh City, Vietnam

The most cost-effective Water & Wastewater Treatment System:**Design and Build Locally**

State-Of-Art Air/Biogas Scrubbing System and Biogas Solutions

With the most reliable technologies from standard to customized plants, ***IWE*** offers complete treatment processes (combined with neutralization, detoxification, coagulation and flocculation) to ensure consistent compliance.

Circular Clarification *is an ideal quiescent sedimentation process.*

Circular DAF *provides significant cost effective solution over large treatment system*

Inclined Plate Clarifer (IPC), *a compact clarification process is commonly used in potable water and wastewater.*

Dissolved Air Floatation (DAF), *(40 m^3/hr) in Food and Beverage Industries.*

A successful ***Activated Sludge Process (ASP)*** *in operation in an oleochemical plant.*

IWE offers its process technological expertise and vast experience in implementing cost effective solution for various type of biological wastewater treatment systems including Powdered Activated Carbon Technology (PACT).

*Twin **SBR** in Food and Beverages Plant. It can perform all processes: aeration, denitrification, nitrification, settling and discharging with a single tank.*

Rectangular Clarifier *has the advantage of retrofit the existing concrete tank structure within the allocated limited space.*

UASB *is designed to treat high strength wastewater with soluble COD more than 8,000 ppm.*

MBBR/IFAS *plants have been successfully implemented in various industrial wastewaters, including the first in Vietnam. IWE's biomedia is non-clog type with surface loading of 3,000m²/m³, compared to our nearest competitor's 900m²/m³*

IWE is capable of undertaking projects in designing and building ***ultra pure water*** (or ***purified water***) and ***desalination*** system for electronics, semiconductor, pharmaceutical, power plants, oil and gas, drinking plant, etc. Equipment involved are Sand Filter (SF), Activated Carbon Filter (ACF), Ultrafiltration (UF), softener, ion exchange (dual bed, mixed bed), reverse osmosis, UV (Disinfection/ TOC reduction), mixed bed polisher columns.

Iron Exchange System (and Heavy Metal Exchanger) can be built in FRP or custom-built mild steel pressure vessel.

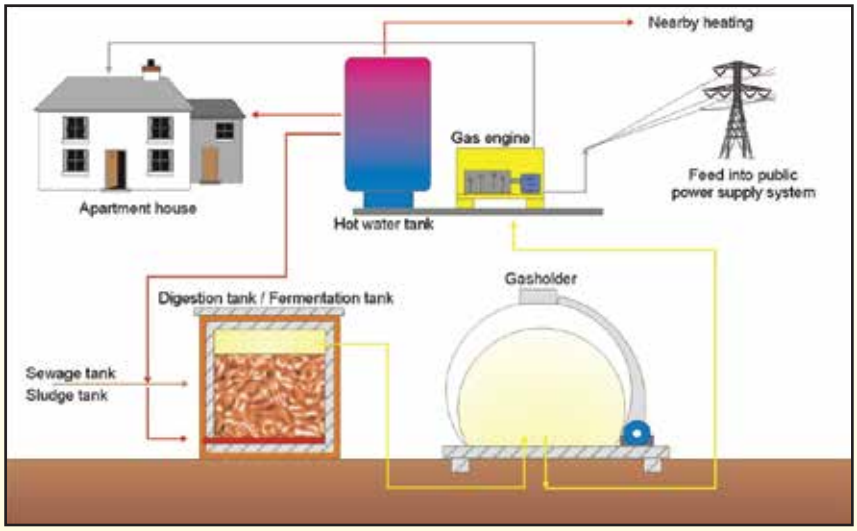
Custom-built Single / Two Pass RO System Performs 90 to 99% TDS rejection and UF recovers 90% permeate water.

Auto Operated Multimedia Filter and ACF are designed based on timer or PLC.

Other Products / Services Experience

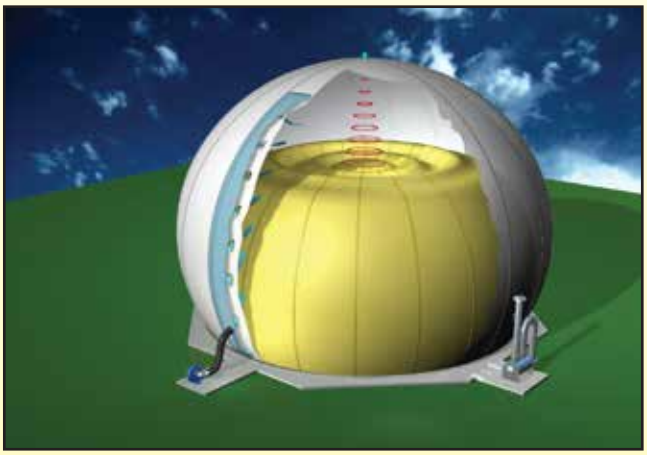
Surface Aerator can be applied to municipal and industrial wastewater treatment plant. The significant advantages include easy installation, minimum operation failure, no downtime for any major part replacements, good heat tranfer, foam control (due to detergent and fats), etc.

When large sludge volume is dewatered, the most economical dewatering system, i.e. ***Belt Press*** , provides good dewatered sludge cake. The continuous design operation will result in small footprint installation.



Renewable energy, biogas that's generated from anaerobic process can be stored in ***Biogas Membrane Holder*** that subsequently used continuously without any interruptions. To date, there are more than 800 worldwide successful installations.

Typical Biogas Flow Chart



Sectional Iso-View

1 x 5,000 m³ Installation in Palm Oil Mill

Project References

Food and Beverage Industries

Chicken Slaughtering

Palm Oil Refinery

Cementboard Processing

Laundry

Leachate Treatment Plant

Pharmaceutical

Project References

Palm Oil Refinery

Ice-Cream Processing

Fish Processing

Food Processing

Plating Processing

Paper Mill Industries

What do they have in common?

The answer is **INDUSTRIAL WATER ENGINEERS.**
We associate our products and services with reliable quality and guaranteed performance.

For further information, please contact

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