

PURE PROCESS: AFFORDABLE, SUSTAINABLE WASTEWATER IN APAC

Home » Project Stories » Pure Process: Affordable, Sustainable Wastewater In Apac

CUSTOMER

Acqua Engineering & Technical Services
(for Taiyo Yuden Plant)

LOCATION

Cebu, Philippines

PROJECT TYPE

Electronics Manufacturing Industrial Wastewater

COMMISSIONED

2022

CAPACITY

12 m³/h (288 m³/day)

STATUS

Operational

OVERVIEW

Acqua Engineering And Technical Services, an approved vendor of Taiyo Yuden, a large Japanese semiconductor company, awarded ROTEC a project at Taiyo Yuden industrial wastewater plant in Cebu, Philippines.

Acqua Engineering And Technical Services provides technology innovations to various clients in terms of water management and operational cost savings. The company specializes in quality services with the ability to solve complex engineering challenges and achieve sustainable results effectively and efficiently.

ROTEC was selected due to the trust in the company's abilities and the success of the advanced Flow Reversal Reverse Osmosis (FR-RO) technology.



THE NEED

Taiyo Yuden industrial plant needed to remove Nickel and enhance the quality of the water to meet strict regulations.

The solution provided to Taiyo Yuden in Cebu is a turnkey project – from design, through construction and then commissioning – which was completed at the end of 2022.

THE PROCESS

ROTEC implemented a unique configuration of cutting-edge technology for the wastewater treatment process which comprises 3 phases:

1. The industrial water is transferred to a reactor container, where part of the Nickel precipitates, and part of it undergoes UF filtration and is removed from the solution.
2. The water then undergoes Active Carbon Filtration to protect the RO system by precisely removing materials dissolved in the water.
3. Reverse Osmosis desalination then takes place based on ROTEC's proprietary FR-RO technology

The systems were built in Israel and in China to lower costs while meeting high-quality standards.

HIGH QUALITY, AFFORDABLE AND SUSTAINABLE

We are proud to have been selected to deliver the overall solution for the project phases of this new plant, including pretreatment, two RO units and post-treatment.

The customer utilizes the FR-RO technology to treat the contaminated wastewater and enhance the quality of the plant's products, providing clean, high-quality industrial wastewater in an affordable and sustainable way.

Download >

LOOKING TO GAIN MORE FROM WATER? LET'S TALK.

*First Name

*Last Name

*Company

Title

*Tel

*Email

Message

Submit

ROTEC provides holistic, modular reverse osmosis desalination solutions and services. With our eco-friendly approach based on our FR-RO technology, we enhance water recovery, efficiency, and reliability, supporting healthy communities.

Keep in touch

info@rotec-water.com
T. +972-4-6209154
20 Alon Hatavor, Caesarea, Israel



Learn More

Solutions
Technology
Projects
About
Team
News
Contact Us

Stay Tuned

Subscribe to our Newsletter

*Your email

