

CASE STUDY

Ultrafiltration Membrane System for Decentralized Water Treatment Plant



Background

Palau is an island country in the Micronesia subregion of Oceania in the Western Pacific that makes up of approx. 340 small islands. Providing clean and safe drinking water supply to the various islands residential is a top priority, as such Palau Public Utilities Corporation (PPUC) is taking the initiative to build decentralized water treatment plants using ultrafiltration membrane (UF) technology to ensure superb quality of drinking water supply that is free from contaminants such as suspended solids, organics and especially microorganisms – bacteria and viruses.

Solution

EuroTec, Engineered Membrane System (EMS) on the ultrafiltration membrane system (ETUFS) were selected to supply 2 units of fully assembled UF systems that are robust, high quality, plug and play arrangement fulfilling the decentralized concept on 2 water treatment plants for the ideal drinking water treatment solution.

Plant Location: Palau

Water Source: Surface Water

Application: Potable Water

Operational Start Date: 2024

UF Capacity: Approx. 120 m³/d and 82 m³/d

ETUF Module: ETUFS-02 and ETUFS-01

Solution: Plug and Play Membrane System

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