

Osmoflo provides invaluable water supply to remote island community

Fact of Interest

Ebeye, being only 2kms long and 400m wide, is the most densely populated island in the Pacific. With a population of approx. 15,000 the island is almost completely reliant on desalinated seawater for their freshwater needs.



Client

Kwajalein Atoll Joint Utility Resource, Inc. (KAJUR)

Technology

Seawater Reverse Osmosis

Location

Ebeye, Marshall Islands (near the Equator in the Pacific Ocean)

Commissioned

August 2017

Project Size

1.6 MLD



Challenge With an existing Seawater Reverse Osmosis plant that was becoming increasingly unreliable, this project was urgently needed at Ebeye to provide potable water to the island population.

Solution Osmoflo designed, supplied and installed two new Seawater Reverse Osmosis trains with total capacity 1.6 MLD. Given the very remote location, Osmoflo were required to be fully self-sufficient in terms of parts and equipment to perform the works. We had determined that the plant could be located inside the existing building by modifying/removing some internal structures, so we also had to retrofit our prefabricated skids into place.

With help from a local contractor, Osmoflo installed all equipment and new power supplies to deliver a secure and reliable potable water supply to the island population. We will also provide ongoing operations and maintenance support over a 24 month period.

During that time Osmoflo will progressively build the capability of local KAJUR operators to continue successful operation of the plant after the handover. Particularly important to this project is the high level of technical support Osmoflo are able to provide via our well established 24/7 operations control centres and proprietary PlantConnect platform.

Result Ebeye and KAJUR needed a quality outcome that would produce high quality potable water for the island, not only now, but well into the future. Osmoflo were able to provide a solution that suited this very unique and remote part of the world. Along with this, we have been involved in making a real difference to the lives of the Ebeye population.