



CREATING CLIMATE RESILIENCE AND HEALTHY COMMUNITIES

THROUGH SUSTAINABLE WATER TREATMENT SOLUTIONS



GO GREEN
CO₂-free water production



AUSTRALIA

- ✓ Water for Agriculture
www.moerkwater.com.au/farming

TANZANIA

- ✓ Kokota Island - 500 people, since 2011
- ✓ Zanzibar Pamoja - 1,000 people, since 2011
- ✓ Zanzibar - Service and maintenance for high-end hotels, since 2012
- ✓ Uzi Island - 1,000 people, since 2017
- ✓ Buyu Village - 800 people, since 2017
- ✓ Morogoro - Agape Children's Village Orphanage 2020

KENYA

- ✓ Mombasa, Eye Clinic - Patients, staff, eyedrop production due to clean water from the project and clinical use, since 2014

SOMALIA

- ✓ Kismayo Hospital, since 2017
- ✓ Refugee Camp, since 2018

ETHIOPIA

- ✓ Desalination plant for high brackish deep well water, provides 80,000L/day (400m deep), 2018

MYANMAR

- ✓ Ayeyarwaddy Delta, Thazin Village - School with 600 students and 1,000 villagers, since 2013

SOLOMON ISLANDS

- ✓ Samarae Maternal Clinic - Patients, staff, clinical use, fishermen and villagers since 2017
- Honiara, YWAM Training Centre, Solomon Islands - Ongoing training in Community Technology, Solar powered sea water desalination, Nano & Ultrafiltration

PAPUA NEW GUINEA

- ✓ YWAM Medical Ship, 2016 and 2017
- ✓ East Cape Village, Milne Bay - 800 villagers, schools and Health Centre, 2018 and 2,000 people in the surrounding neighbourhood
- ✓ Watunou Village - 400 villagers, school and Aid Post 2019
- ✓ Bonarua Island, Portalbe Desaliation unit, 300 people, to secure water supply
- ✓ Rabaraba, Alotau Administration - Water Concept Development for Rabaraba
- ✓ Panaeati Island, Samarai - Murua, in collaboration with the United Church: Solar water pumps with nanofiltration 2020
- ✓ Moerk Water works closely with a specialized local professional network to bring in and implement cutting edge technology

VANUATU

- ✓ Uripiv Island - 800 villagers, School and Health Centre, and surrounding islands, since 2018

KIRIBATI

- ✓ Ministry of Infrastructure and Sustainable Energy (MISE) - 3 desalination machines RO250SW for 3 outer islands of Kiribati in 2020
- ✓ Online training and implementation was conducted by Moerk Water
- ✓ Kiribati Institute of Technology (KIT) Vocational Training Centre RO250SW desalination machine for the purpose of providing practical training

www.moerkwater.com.au



COMMUNITIES



SCHOOLS



HEALTH CENTRES



MARKET GARDENS



FARMING



FISHERIES

MOERK WATER SOLUTIONS

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SOLAR POWERED WATER TREATMENT SYSTEMS

A HOLISTIC APPROACH

Making the Island Communities Resilient Against Climate Change Challenges



CHALLENGES

CLEAN & SAFE WATER SUPPLY WHERE IT'S NEEDED

- ✓ Intrusion of saltwater into wells and groundwater coastal area and inland
- ✓ Contaminated ground water and river water.
- ✓ Coral atolls: no source of sweet groundwater
- ✓ Growing population = increased demand for water
- ✓ Lack of safe water supply during the dry season
- ✓ Lack of safe water during cyclones
- ✓ Change of sea-level

OUR GOAL

MAKING COMMUNITIES RESILIENT TO CLIMATE CHANGE CHALLENGES

We provide the rural communities, villages, health care centres and schools with:

- ✓ Reliable drinking water supply
- ✓ Robust technology embedded in a sustainable business model
- ✓ Teaching and equipping locals



TECHNOLOGY

DESALINATION OF SEA AND BRACKISH WATER THROUGH REVERSE OSMOSIS AND NANOFILTRATION

- ✓ Proven membrane technology
- ✓ Removal of dissolved salts & water borne contaminants, fluoride, arsenic, etc
- ✓ Most units are operating chemical free
- ✓ Solar-powered with battery operation or direct driven, without batteries to power the pressure driven membrane filtration process



Capacity Range: from 30 l/hr up to 100,000 l/hr



Portable unit 30 l/hr - treating sea and brackish water
Perfect for rapid deployment as part of disaster relief



Community plant 250 L/hr - treating sea and brackish water
Designed to provide clean water for health centres, schools and communities

