

**Location:** Multiple



Applied  
Membranes  
builds multiple  
ROWPU for UN

Access to safe drinking water can be challenging in certain areas. AMI's ROWPU are adaptable to treat various water sources and valuable for critical missions.

## Challenge

The UN was carrying out a critical mission to address water scarcity challenges and provide safe drinking water in challenging environments.

The decision was made to procure several trailer-mounted Reverse Osmosis Water Purification Units (ROWPU) from Applied Membranes.

The mobile ROWPU units needed to produce high-quality water from diverse water sources including lakes, rivers, ponds laced with contaminants, and seawater with a high Total Dissolved Solids (TDS) level of 35,000.

The UN required fifteen (15) units in a short timeframe. Each unit had to be provided as a complete treatment system and capable of operating in regions without reliable electricity supply.



## Solution

Applied Membranes designed and built **fifteen (15) 2000 Liter Per Hour (LPH) (2 m<sup>3</sup>/hr) ROWPU**, meeting the client's specifications and timelines.

Each AMI ROWPU unit is provided as a complete mobile water treatment system to treat various water sources, remove unwanted contaminants, and produce safe drinking water.

Each system is engineered to withstand harsh environmental conditions, is trailer-mounted for easy transportation, and includes a diesel generator to provide power to the system.

### Key Features:

- Trailer for easy transportation
- UV disinfection
- Media filtration
- Diesel generator
- Chemical injection system
- Antiscalant
- High pressure pump
- Programmable Logic Controller (PLC)

## Results

AMI ROWPU are versatile, mobile, and make a positive impact by providing a reliable source of safe drinking water and supporting broader humanitarian goals of the UN mission.

- **Adaptable:** AMI ROWPU are deployed for critical missions, and adaptable to different scenarios and geographical locations.
- **Mobile:** The trailer-mounted design enables rapid deployment and mobility, allowing the AMI units to be transported to remote areas where access to clean water is a challenge.
- **Quality and reliability:** AMI ROWPU are reliable and produce high-quality potable water. Each unit is a self-sufficient water treatment system to operate in diverse environments.

