# SEAWATER DESALINATION

## *Independent water supply*

### RELIABILITY

Safe and reliable water supply from a virtually endless source

### FLEXIBILITY

On demand production according to seasonal requirements

### INDEPENDENCE

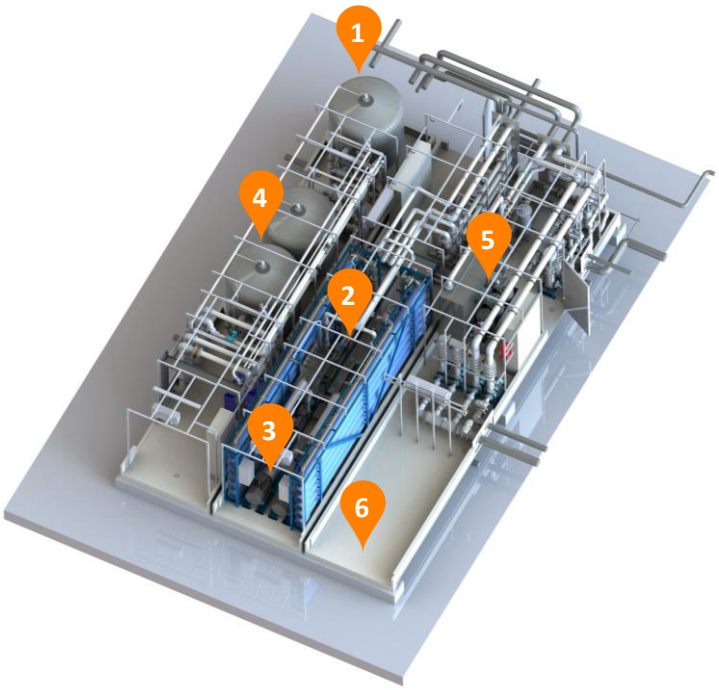
Off the grid connection, allowing independence from local water network

### DECENTRALIZED SYSTEM

Suitable to provide water in remote locations

## *Our Solution*

1. MMF
2. Seawater Reverse Osmosis
3. Energy Recovery Device
4. Potabilization
5. Chlorination (dosing pump)
6. Containerization




## *Special features*

- ERD: optimizes energy consumption by transferring the concentrate pressure to the feed, thus reducing the energy requirements by 60%
- Remote monitoring: allows to access and control the plant remotely
- Pre and post treatment: options are available according to the required water quality/application needs
- Renewable energies: system can be powered by solar or panels or wind turbines
- Containerization: Reduces on site civil works and installation requirements.
- Plug and Play solution

LENNTECH
Water Treatment Solutions

# CASE STUDY : DRINKING WATER FOR CARIBBEAN RESORT

*Curaçao, 100 $m^3/d$*

## Aim of the Project

Lenntech has presented a case study to a luxury resort for the installation of a desalination water treatment system to supply the complex unit in the Caribbean islands with drinking water.

The system is equipped with top brand instrumentation and equipment, as well as advanced automation and remote control/monitoring and will be able to provide safe and high-quality drinking water for the resort's guests.

**FEED WATER QUALITY**

TDS: 37 000 ppm

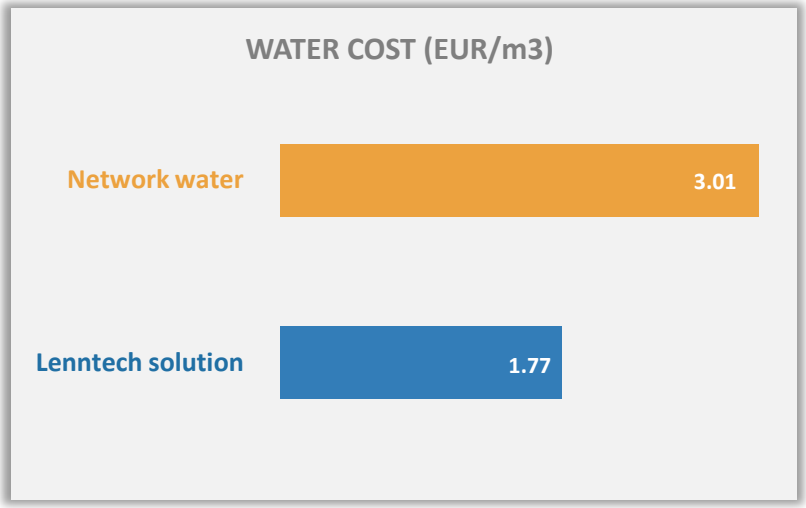
**PRODUCT WATER QUALITY**

In conformity with the World Health Organization guidelines

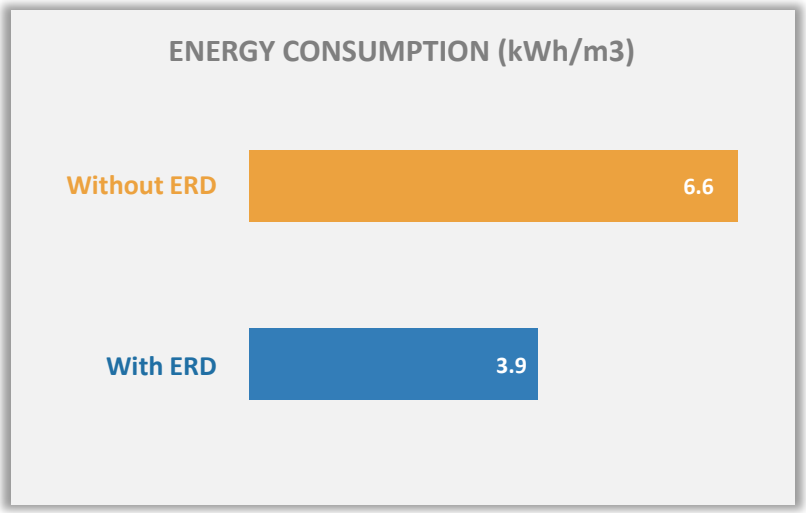
## Scope of Work

- Engineering, manufacturing and assembly
- Containerized system with air-conditioning
- Disk filtration
- Multimedia filtration
- Reverse osmosis unit
- Pressure Exchanger for energy consumption reduction
- Remineralization
- Chemical dosing (disinfection, antiscalant)
- Chemical cleaning and rinsing station
- Siemens PLC
- Remote monitoring

**WATER COST 40% CHEAPER**




**ENERGY CONSUMPTION 40% DECREASE**

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