

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

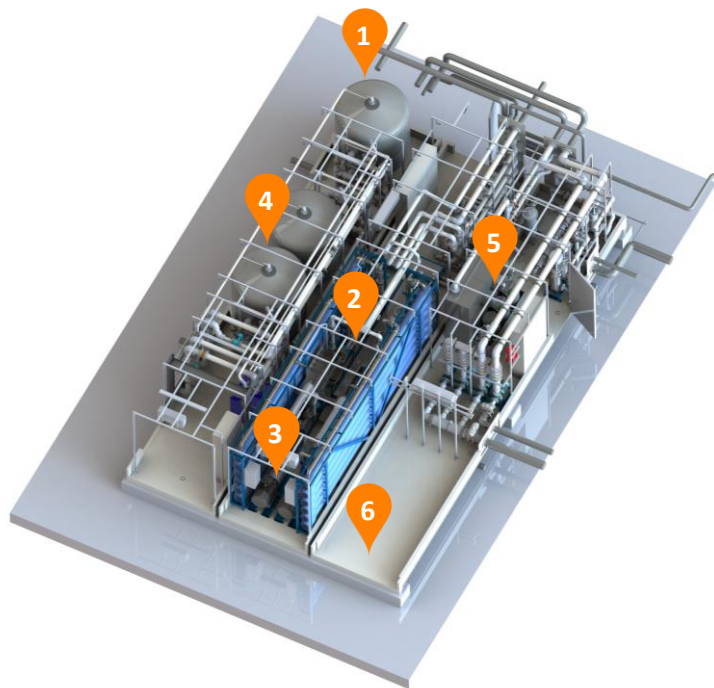
Off the grid connection, allowing independence from local water network

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



CASE STUDY : DRINKING WATER FOR CARIBBEAN RESORT

Curaçao, 100 m³/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

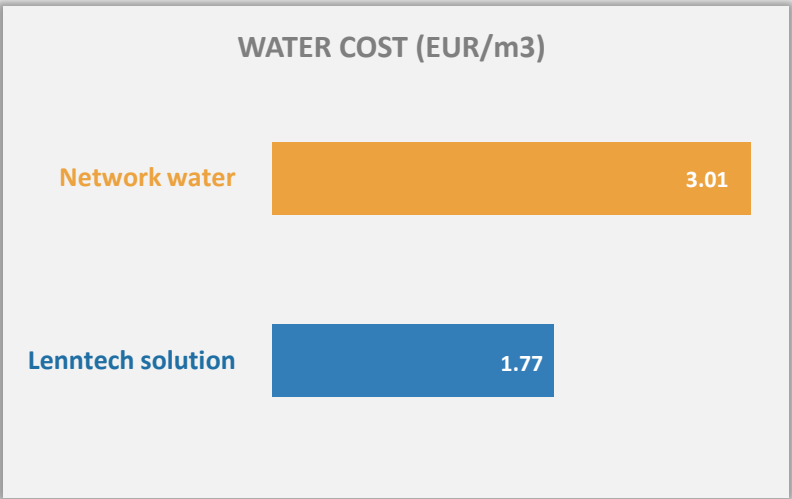
PRODUCT WATER QUALITY

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

