



Wind powered sea water desalination

the Netherlands, 600 m³/d

Aim of the Project

Lenntech has engineered, manufactured and assembled a sea water desalination unit consisting of multimedia filtration (MMF), UV disinfection and reverse osmosis (RO) with the purpose of testing the functioning of the wind energy in desalination.

Various feed flow rates and recoveries can be tested according to different wind conditions. The system is fully containerized.

This RO system powered by renewable sources (wind driven RO) displays significant energy savings.

Scope of Work

- ✓ Engineering, manufacturing and assembly
- ✓ Fully containerized system
- ✓ MMF system
- ✓ Chlorination station
- ✓ Cartridge filtration
- ✓ RO pilot system
- ✓ Energy recovery device
- ✓ UV disinfection system
- ✓ Antiscalant dosing
- ✓ Cleaning In Place station
- ✓ Fully automated system

Plant specs

☐ Feed water quality

TDS: 20000 - 38000 ppm

☐ Product water quality

TDS: Depending on the selected recovery

Project duration

- ☐ January 2020 to September 2020