



BRACKISH WATER REVERSE OSMOSIS SYSTEM

Algeria, 27 m³/h

Aim of the Project

Industries require specific water quality for processes, which can be produced using locally available water and the appropriate treatment. In this project, expected water quality is met thanks to a brackish water reverse osmosis system as it is adapted, and Lenntech containerized systems are perfectly fitted for the harsh environment found in the desertic areas of Algeria.

Lenntech has engineered, built, installed and commissioned a full system for reverse osmosis brackish water treatment in a gypsum extraction facility which allows the recovery of 64% of the feed water.

The installation, composed of a multimedia filter and a reverse osmosis system is containerized and is fully automated. Thus, it automatically adapts to provide the requested flow and runs the different sequences for a durable life cycle.

Scope of Work

- ✓ Engineering, manufacturing and assembly
- ✓ Fully containerized installation
- ✓ Multi-Media filtration system with air backwash
- ✓ Cartridge filtration
- ✓ Antiscalant and biocide dosing
- ✓ Reverse Osmosis system
- ✓ Cleaning in Place system
- ✓ Control with a Programmable Logic Controller
- ✓ Flow and pH automatically adjusted
- ✓ Automatic backwash and rinsing steps
- ✓ Site start-up and commissioning
- ✓ Delivery at Place

Plant specs

- ❑ **Feed water quality**
TDS: 9400 ppm
- ❑ **Product water quality**
TDS: <700 ppm
- ❑ **Water recovery: 64%**