



DRINKING WATER PRODUCTION - REVERSE OSMOSIS PLANT

Libya, 20 m³/d

Aim of the Project

Access to drinking water is challenging in desertic and remote areas, therefore producing acceptable quality from local water sources can be the most viable and economical option. A fully containerized water treatment plant standing the severe environment (high temperature, dust, etc.) was the best available decision for this client.

Lenntech has engineered, built, installed and commissioned a full reverse osmosis system producing drinking water connected to a distribution network of the power plant.

The water treatment plant start from pre-treatment filtration to post-treatment for drinking water, fitting in a 20ft container. This system is plug and play, fully automated enabling a good autonomy in the remote area where it is placed.

Scope of Work

- ✓ Engineering, manufacturing and assembly
- ✓ Multimedia filtration
- ✓ Antiscalant dosing
- ✓ Cartridge filtration
- ✓ Reverse Osmosis system
- ✓ pH adjustment
- ✓ Disinfection
- ✓ Standard control
- ✓ Insulated and fully equipped container

Plant specs

- ☐ **Feed water quality**
TDS < 4000 ppm
- ☐ **Product water quality**
TDS < 500 ppm
- ☐ **Water recovery: 75%**