



## DRINKING WATER PRODUCTION - REVERSE OSMOSIS PLANT

*Libya, 20 m<sup>3</sup>/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%