



Cooling tower make-up water

The Netherlands, 2900 m³/day

Project Description:

Lenntech has engineered, installed and commissioned a high recovery CCRO system, to produce high purified water as make-up water. This allows a reduction of water consumption by 20% in the cooling units, and consequently waste water (blow-down) minimization. Purified water availability is of extreme importance of the end-user. First, chemical injection is done, to fit the CCRO feed recommendations and minimize fouling and scaling in the cooling tower. Then, 2 independent CCRO produce 120 m³/h of permeate at 93% recovery, also resulting in a reduction of brine production. The system is equipped with top-brand equipment to allow a full control on chemical uses and CCRO settings.

Scope of Work:

- Engineering, manufacturing and assembly
- Feed and distribution pumps
- Closed-Circuit Reverse Osmosis (CCRO) unit
- Chemical dosing stations
- Siemens PLC
- Skid mounted system
- Top brand instrumentation
- Top brand equipment
- Containerization
- Site commissioning
- Remote monitoring
- Service and maintenance

Project duration:

May 2018 to July 2019

Project location:

The Netherlands

Product quality:

Conductivity < 100 uS/cm

Project application:

Cooling tower make-up Water

Typical Return on Investments:

< 3 months



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WATER TREATMENT SOLUTIONS