

Sludge Drying Facility

WWTP Ede, The Netherlands



Scope of services

- Stand-alone sludge drying unit for drying of dewatered sewage sludge
- Design, Build, start-up & commissioning, including 16,000 hours of integral maintenance
- Sludge drying is based on proprietary EloDry® concept for low temperature sludge drying

Technical data

- Production capacity is 1,000 tons / year of dried sewage sludge
- EloDry® low temperature sludge drying facility 1x NT16
- Input is 23 – 25 % ds dewatered sewage sludge
- Sludge drying performance is > 90 % ds
- Maximum evaporation capacity is 440 kg H₂O / h

Scope of delivery

- Integrated design for civil, mechanical, electrical and automation works
- Low temperature belt dryer including exhaust gas treatment based on 1-step chemical scrubbing and discharge to existing bio-bed facility
- Screw conveyor systems for feeding dewatered sludge to the dryer
- Screw conveyor systems for discharge of dried sludge to disposal facility
- Disposal facility consisting of automatic loading for 2 containers
- Thermal energy is provided by a sewage gas fueled boiler and hot water circuits and recuperation facility
- All safety (Ex) systems are included
- Integrated electrical and control system for plant autonomous operation
- Execution of all related civil works and underground piping
- Erection of the pre-fabricated plant, including all on-site mechanical and electrical installation works
- Start-up and commissioning as well ongoing plant performance optimization

Features

- The system is constructed as a pre-fabricated modular plant based on 40 ft container housings.
- The project includes an overall maintenance responsibility for 16,000 operating hours after final commissioning.
- Project is implemented under Dutch uniform turn-key conditions UAV_GC 2005.

Client
Waterboard Vallei en Veluwe

Completion
Oct. 2016

Contract value
EUR 872,290
