

Emmen WWTP

Optimization Biogas Utilization



Scope of services

- Design and Construct (UAV-gc)
- CHP including exhaust gas treatment
- Biogas pre-treatment
- Energy distribution
- 1 + 5 year 24/7 Service and Maintenance

Scope of delivery

- Senergie 500 CHP unit with Liebherr 9512 gas motor
- Biological desulphurization 250Nm³/hour 1000 ppm – 100 ppm H₂S
- Gas dryer and – pre-heating
- Gas booster
- Activated Carbon Filter for siloxane removal and rest desulphurization (dual function coal)
- Autonomous process control system and local MMI
- Gas quality measurement CH₄, CO₂, H₂S and O₂

Features

- Project was tendered through the Best Value Procurement methodology with dominant quality score evaluation

Technical data

- CHP system for 500kWe and 550kWth
- Biogas pre-treatment 250Nm³/hour
- DeNOx system <340 mg NOx/Nm³
- Main Distribution board 1600A

Customer
Waterboard Vechtstromen, The Netherlands

Completion
December 2014

Contract value
EUR 1.1 million
