

Friedrichshafen

Friedrichshafen Sewage Treatment Plant Power Station



Regierungsbaumeister
SCHLEGEL



Client

Stadt Friedrichshafen [City of
Friedrichshafen]
City-owned Drainage

Period

2001 - 2008

Project Cost

1.220.000 €

Abstract

The sewage treatment plant of Friedrichshafen was previously equipped with 2 gas engines, each with a capacity of 90 kW and flue gas cleaning catalysers. Maintenance and cost of catalysers for both engines was intensive and did not stand the test of time. As a result and in line with further advancement of the sewage plant, these engines had to be exchanged by modern lean-burn engines.

Due to the interim loading increase, a greater gas yield was recorded, so that the need for an intensive cleaning process resulted. Consequently, the power of the new engines had to be adjusted. Establishment of the two recent heat and power modules, each with a capacity of 180 kW, proceeded in a new engine hall, directly next to the existing buildings.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, construction supervision, site
supervision
planning of structural framework
technical equipment

Technical Data

Producible electric power	2 x 170 kW
Producible thermal power	2 x 265 kW
Digester gas volume	2,000 N m ³ /h
Capacity	2 gas Otto engines
Fuel	digester gas