

Munich

Gut Marienhof Sewage Treatment Plant



Regierungsbaumeister
SCHLEGEL



Client

Münchner Stadtentwässerung
[Munich Urban Drainage]

Period

2001 - 2004

Project Cost

24.000.000 €

Abstract

In the process of amendments to technical instructions for the air pollution control on 24.07.2002, Munich Drainage Public Services intended to modernise the existing digester gas diesel engine unit. Initially, technical measures for designing the new digester gas unit were investigated to determine how the efficiency of the existing digester gas unit could be developed to meet the requirements set by the new instructions. In case this could not be done by justifiable technical and economical investments, an alternative concept for establishment of a new energy system could be developed. The identified alternatives were compared with regard to their technical and economical aspects and their advantage/disadvantage surveyed in a cost-benefit analysis. Furthermore, the feasibility study included development of an operation concept to cover the entire system during the modernisation phase and to guarantee, as far as possible, utilisation of the generated digester gas, also in the course of modernisation measures.

Scope of Service

feasibility study

Technical Data

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|---|---------------------------|
| 5 engines, mechanical power, each | 1.6 MW |
| 2 elect. turbocompressor aggregates, each | 1.6 MW |
| Air delivery rate, each | 70,000 Nm ³ /h |
| Fuel digester gas, digester gas volume | 1,240 Nm ³ /h |