

# Energy from wastewater sludge



**192 million cubic meters of  
wastewater per year**

#### **Projekt-Steckbrief**

- One of the most modern wastewater treatment plants in Europe
- Biogas production since 2008
- Digester plant with four 45 meter high digestion towers

#### **State of the art wastewater technology for Munich**

Gut Großlappen wastewater treatment works in Munich's Freimann district is today one of the most modern wastewater treatment works in Europe. Together with the Gut Marienhof plant each day 560,000 cubic meters of wastewater from Munich's households and the industry in the surrounding region is treated. Since the end of 1998, a wastewater sludge incineration plant has also been operated on the site, in which the wastewater sludge is thermally processed and therefore disposed of in an environmentally friendly way.

In 2008, a digester plant with four 45 meter high digester towers for the production of biogas was put into service. More than 1,000 ERHARD valves are installed in the plant, whose shiny cladding forms an interesting architectural contrast to the Allianz Arena sports stadium opposite



With more than 1,000 ERHARD valves, Gut Großlappen wastewater treatment works is one of the most modern in Europe. Between 2003 and 2008, a digester plant based on state of the art engineering was erected for the production of biogas.

### ERHARD valves ensure optimum operation in the most modern wastewater treatment works in Munich

During recent years, numerous extensions, new buildings and a large number of development projects have made Gut Großlappen wastewater treatment works one of the most modern facilities in Europe. The works is equipped with one mechanical and two biological stages. Most recently, a new digester facility was built, with four conical tanks, each with a capacity of 14,500 cubic meters. It was commissioned in 2008.

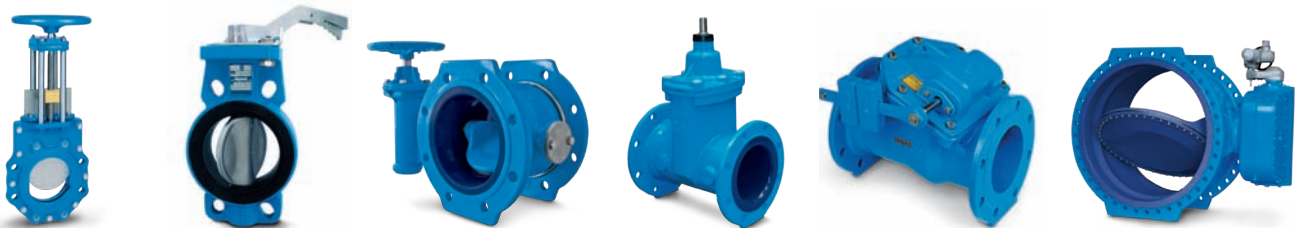
During the course of the modernisation and extension work between 2003 and 2008, ERHARD delivered more than 1,000 valves, including knife gate valves, butterfly valves, gate valves and check valves with nominal diameters between DN50 and 1800. ERHARD valves are installed in all kinds of different areas of the wastewater treatment works, among other places, in the digester facility and in the sand filtration. Since the new plant was commissioned in 2008, a large number of additional valves have been delivered from Heidenheim to Munich. The percentage share of ERHARD valves in Gut Großlappen wastewater treatment works is very high.

Apart from Gut Großlappen, Munich has a second large facility, the Gut Marienhof. Numerous ERHARD valves are also installed in this sister plant.

*The comprehensive ERHARD product range made it possible to provide all the valves from a single source.*

#### Major Products:

- Knife Gate Valves ERU K1 (DN50 - 600)
- Butterfly Valves ECLS (DN50 - 400)
- Butterfly Valves ROCO Premium (DN80 - 600)
- Gate Valves (DN40 - 350)
- SWING Check Valves (DN50 - 250)
- Butterfly Valves EAK (DN700 - 1800)
- Check Valves ERK (DN350)
- Knife Gate Valves ECO (DN100 - 200)



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