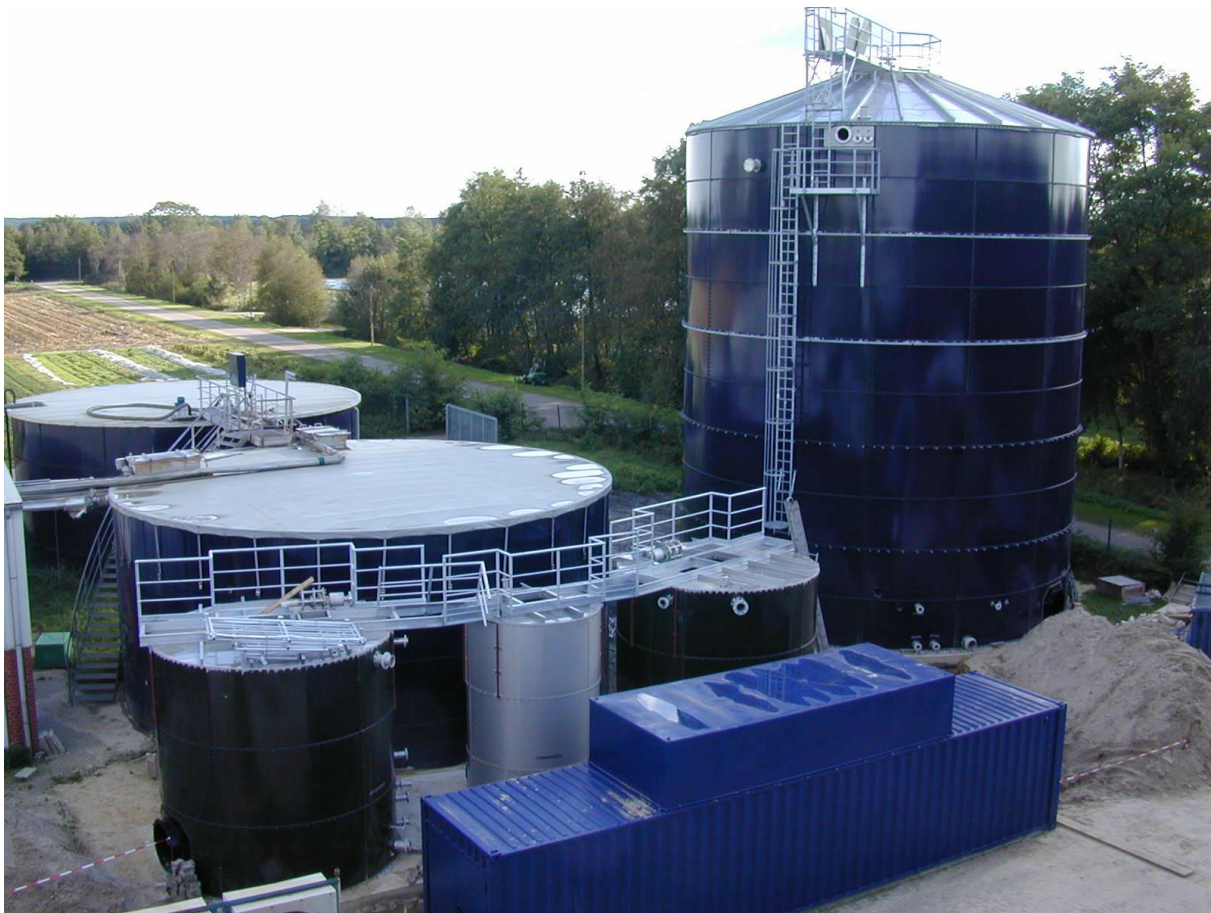


Biogas Plant JOHANNESBURG (Expansion)



Location:	Germany
Construction Period:	2002/2003
Input:	Manure, Fats
Fermenter:	Steel Tanks, 2 x 500 m ³ (original), 1,500 m ³ (additional)
Co-generator:	Gas Engines, 285 kW (original), 626 kW (additional)
General Contractor:	Hese Umwelt GmbH

In 1993, the biogas plant JOHANNESBURG was built to handle 15,000 Mg per year. After it had successfully operated for a few years the owners decided to more than double the capacity to 40,000 Mg per year. K&F utilized much of the original facility and added new components like pasteurisation and a process measurement technology. Start-up of this larger facility occurred at the beginning of 2003.

Krieg & Fischer Ingenieure GmbH responsibilities:

Conception, process technology selection, sizing, site layout, designing, preplanning, permitting, detailed and final engineering for electronic controls and piping system, documentation and start-up.