

LEMVIG BIOGAS PLANT



Built 1992
for
Lemvig Biogasanlæg A.m.b.a.
by

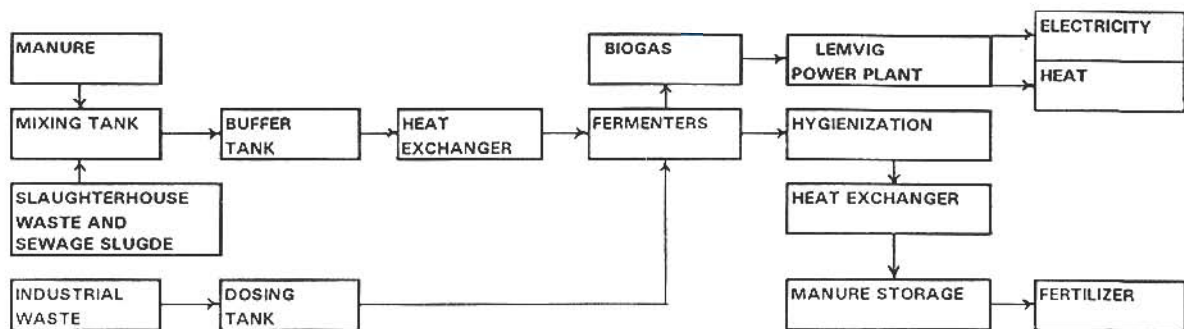
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LEMVIG BIOGAS PLANT

Process of the Plant:

The plant, which has been developed and constructed by BWSC, is a thermophilic fermentation plant (50-55°C) with a retention time of approx. 15 days.



Animal manure, slaughterhouse waste and sewage sludge are mixed before heating up to the process temperature in a heat exchanger and pumped into the fermenters. The heat energy is supplied by a chip boiler. The fermented biomass is hygienized, returned to the farmers and used as fertilizer. The biogas produced is lead via a low-pressure gas transmission system to Lemvig Biogas Plant (4.3 kilometers).

Plant Characteristics:

Fermenters		3 x 2400 m ³
Thermophilic fermentation		55 degrees C
Hygienization		3 x 200 m ³
Animal manure		130,000 tons/year
Organic industrial waste		30,000 tons/year
Biogas production		4,5 mio. m ³ /year
converted into:	Electricity	11,000 MWh
and into:	Heat	15,000 MWh
Plant consumption (per year):		
Electricity		1,200 MWh
Heat		3,100 MWh