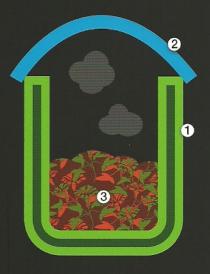


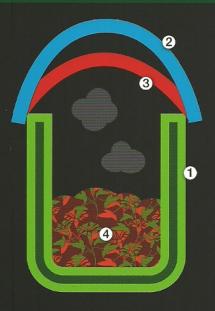
TYPES OF BIOGAS INSTALLATIONS:

Single membrane



- 1 Fermentation tank/reactor
- 2 Membrane
- 3 Fermentation

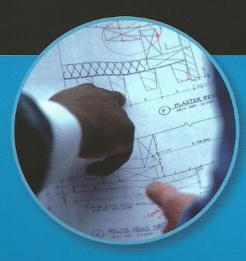
Double membrane



- 1 Fermentation tank/reactor
- 2 Fixed outer membrane
- 3 Inner membrane (the 'lung')
- 4 Fermentation

It is recommended to always work with qualified structural engineers.





BIOGAS INSTALLATIONS

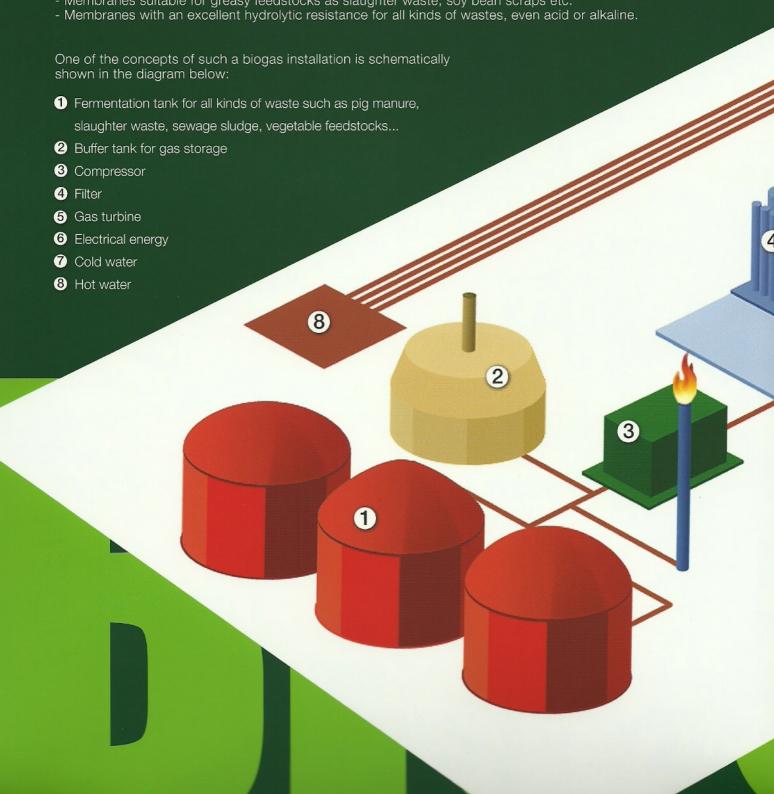
A biogas installation is an installation where 'biogas' is generated and transformed into energy and heat.

Biogas typically refers to a (biofuel) gas produced by the anaerobic digestion or fermentation of organic matter including manure, sewage sludge, municipal solid waste, biodegradable waste or any other biodegradable feedstock, under anaerobic conditions. Biogas is comprised primarily of methane and carbon dioxide.

The gas produced is then burnt in a gas turbine by which electricity and heat are created.

In most biogas installations the reactor and digestion tanks are covered with two gas tight membranes. Depending on the nature of the feedstock, SIOEN makes a distinction between:

- Membranes suitable for greasy feedstocks as slaughter waste, soy bean scraps etc.



SIOEN SOLUTIONS

Sioen offers a range of membranes, depending on size, structure, engineering and the type of waste stored in the tanks.

	TYPE I		TYPE II		TYPE III	
	non flame retardant	flame retardant	non flame retardant	flame retardant	non flame retardant	flame retardant
hydrolitic resistant	B9090	B9160	B6070	B6160	-	-
	900 g/m²	900 g/m²	1150 g/m²	1150 g/m²	-	-
grease resistant	B9899	B9189	B6899	B6199	-	B6658
	900 g/m²	900 g/m²	1150 g/m²	1150 g/m²	-	1300 g/m²

All types are lacquered (dull) to ensure a weldable, dirt repellent and chemical resistant fabric.

All type 1 & type 2 hydrolitic & grease resistant materials are standard available in colour grey 7264, 300cm wide. For other colours, please contact our sales people.

The type 3 grease resistant material B6658, colour 9002, is available in 250cm wide. Minimum order required of $1000\,\mathrm{Im}$.

EXAMPLES

