

Thermal disintegration

Following fermentation in the main fermenter, the substrate proceeds to the thermal disintegration process which has been patented. The performance advantages of this patented process have been validated through scientific testing.

Thermal disintegration increases the plant's gas yield. The substrate is heated to a temperature of at least 70 °C in the thermal disintegration unit. Substances which do not degrade easily can continue to ferment with shorter residence times.

The process developed by EISENMANN makes operation of the biogas plant more economical and efficient, resulting in very low operating costs.

Secondary fermenter

From the thermal disintegration stage, the substrate passes to a additional fermenter for additional fermentation. The methane



gas produced in the process is buffer-stored under the gas-tight cover of the secondary fermenter and withdrawn by the consumer as required.

An upright mixing tank is used as the secondary fermenter.

Advantages of a biogas plant made by EISENMANN

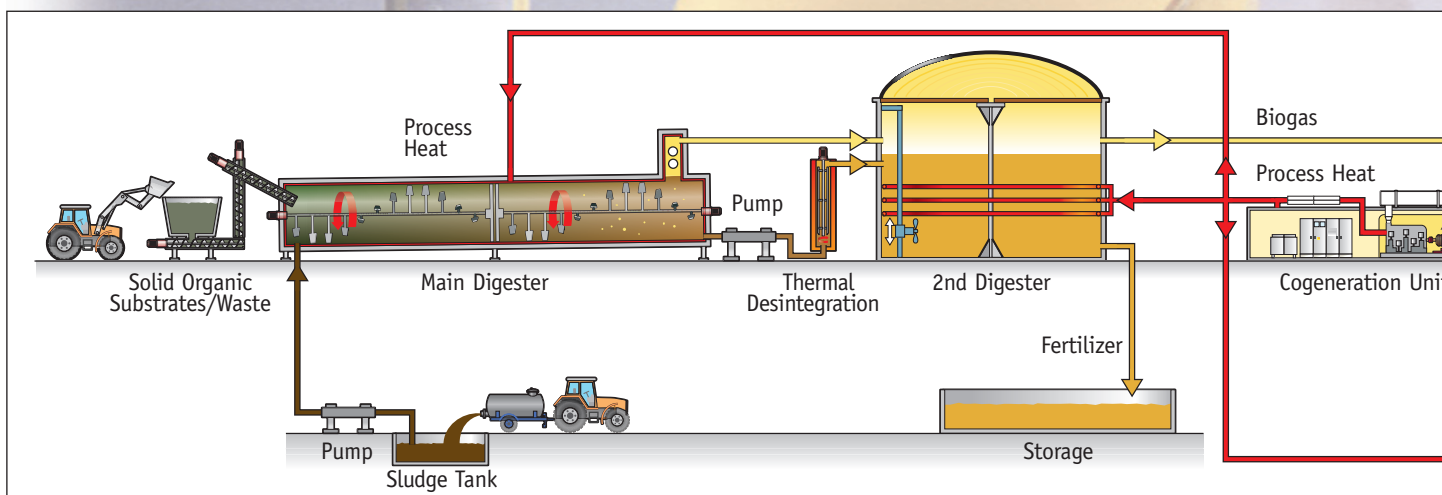
Our biogas plants are made from standardized equipment which significantly reduces the time required from engineering design to installation and commissioning.

The high quality of our design fabrication, partner relationship with our suppliers and decades of experience in plant engineering guarantee a high level of operational reliability - for the entire life of the plant.

Due to the design of the standard biogas plants from EISENMANN, installation is greatly simplified. Our efficient plant design and layout minimizes the footprint required for the foundation. Our international presence allows us to build and deliver plants to EISENMANN's high quality standards anywhere in the world.

Custom engineered biogas plants from EISENMANN

Particularly plants with higher capacities must be planned individually.



Regardless of whether you need a plant with large horizontal fermenters of reinforced concrete or a conventional plant with upright fermenters, we can adapt the EISENMANN biogas plant to your individual wishes and requirements.