

AGRICULTURAL BIOMASS ENERGY GENERATION PLANT



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An agricultural biomass energy generation plant generates thermal energy for use on the farm. Excess power that is not required can be fed into the national electricity grid.

The heart of the system is the fermenter where the biomass is broken down. The liquid and gases inside a fermenter are very aggressive. As a result, the tanks must be constructed from corrosion-resistant materials such as stainless steel.



Location | FARMS, MAINLY EUROPE

Environment | INDOOR/OUTDOOR

Product | COLD ROLLED AND WORK-HARDENED STAINLESS STEEL SHEET

Fabrication process | CONTOURING, STAMPING

Grade/surface | 1.4301, 1.4571 (ASTM TYPES 304, 316 TI)/2B AND 2R

Material thickness/diameter | 1.5 - 3.5 MM

Weight | VARIES

Competing material | CONCRETE, COATED CARBON STEEL

Date of Completion | CONTINUALLY IN PRODUCTION

Manufacturer | WELTEC BIOPOWER® GMBH

Material Supplier | THYSSENKRUPP NIROSTA GMBH

Source of Information | WELTEC BIOPOWER® GMBH

Remarks | DEPENDING ON OPERATIONAL DEMANDS, DIFFERENT GRADES OF STAINLESS STEEL CAN BE UTILISED IN THIS APPLICATION.