

Example Waste To Energy Plant 2,000 kW with Digestate Dryer



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Example for Daily Input:

soap stock 13.7 t; vegetable fat 4 t
pet food leftovers 2.7 t; cow manure 19.2 t;
pig slurry 23.3 t; maize silage 11 t;
dry manure 8.2 t

► **Annual Biogas Production 6.2 Mio. Nm³**

Technical Data

In order to collect the incoming liquids, 4 co-fermentation tanks are part of this plant concept. Two of them are heated to keep the substrates pumpable. Additionally two hydrolysis tanks with 450 m³ per tank incl. heating and submersible mixer collect the manure. Moreover a PlanET Biogastechnik solids charging system with 50 m³ capacity is installed.

2 Digesters with 2,660 m³ each (height: 7 m) incl. wall and base heating, wooden roof, gas storage roof.

Mixing system: Paddle giants & submersible mixer

1 Post Digester with 3,717 m³ (height: 7 m) incl. wall and base heating, wooden roof, gas storage roof.

Mixing system: Paddle giants & submersible mixer.

2 Digestate Storage Tanks with 3,690 m³ each

2 CHP Units with 2 MW_e installed capacity (*Jenbacher* gas engines)

Technical Highlights

- 2 hydrolysis tanks are installed for pre-treatment of the substrates
- A vacuum pumping system replaces the common pumping system
- Over 40 t of digestate are dried per day!



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