

**WASTE MANAGEMENT**

WASTEWATER

>> BIOGENIC WASTE

REFUSE-DERIVED FUEL

HAZARDOUS WASTE

SEWAGE SLUDGE



# BIOGAS GENERATION: **CUTTING-EDGE AND SUSTAINABLE**



**BIOGAS PLANT**

Do you have catering waste, food production refuse or chemical manufacturing residues? Let Infraserv Höchst handle the disposal for you. In the process, we will generate renewable energy and carbon-neutral biogas.

# FROM DIGESTIBLE WASTE TO VALUABLE FUEL

**The biogas plant perfectly complements the industrial wastewater treatment plant and sewage sludge incineration plant. It allows us to recycle a wide variety of pumpable and sludgy waste safely and efficiently.**

The process begins with the co-digester, which sustainably breaks down the organic matter. The digestate is dewatered and then incinerated for energy recovery in our sewage sludge incineration plant. The filtrate is treated at the wastewater treatment plant. The biogas generated by digestion is used to produce electricity, steam and biomethane. This innovative technology represents a sustainable treatment and recycling option for food refuse and biogenic waste flows, particularly from biochemical and pharmaceutical processes.

Since we can only accept digestible waste, our experts have to test the waste for digestibility before accepting the first shipment. If animal waste needs to be sanitized, we will take care of it at the biogas plant – there is no need for you to do anything.

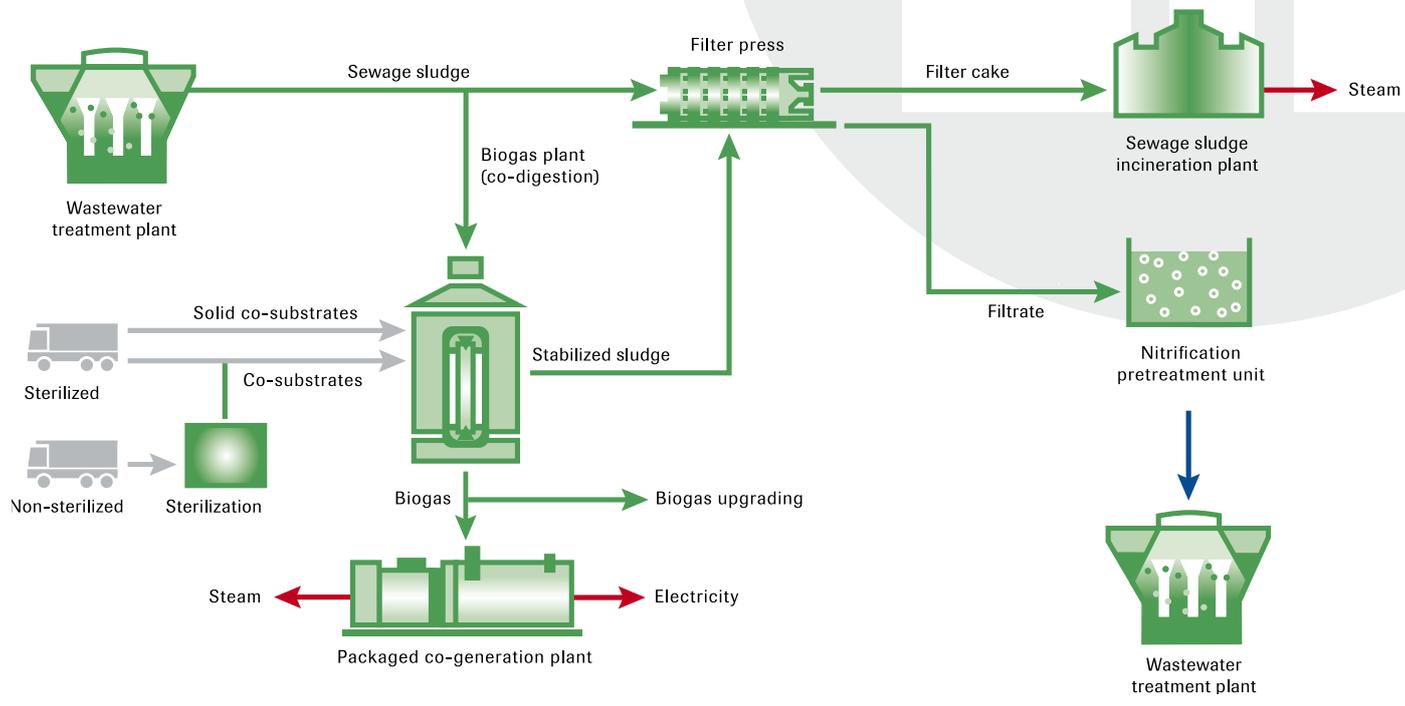
## WASTE TYPES

- Over 100 categories of waste as defined in the Waste Catalog Ordinance, including some hazardous wastes
- Food production refuse and chemical industry waste
- Digestible waste from biochemical processes
- Mother liquors or solvent mixtures
- Municipal and industrial sewage sludge and oil and grease trap waste
- Individual substances such as alcohols, glycerins, stearates, etc.

## DELIVERY OPTIONS

- Liquid co-substrates accepted in all standard road transport containers
- Sanitized or unsanitized waste
- Solid, sludgy waste is accepted in bulk at a slurry mixing station
- Tank farm for liquids and flammable substances

## DIAGRAM OF BIOGAS GENERATION PLANT AND THERMAL RECOVERY



TECHNICAL DATA OF THE BIOGAS PLANT	
Digester volume	2 x 10,800 m <sup>3</sup>
Input capacity	215,000 t/a co-substrates
Sanitization capacity	50,000 t/a
Biogas production	80,000 Nm <sup>3</sup> /d
Total power output	13 MW (Electrical output 4.2 MW)

### YOUR BENEFIT: MORE TIME FOR YOUR BUSINESS

- Efficient disposal of digestible waste
- Sustainable conversion into a high-value fuel
- Stable energy prices through closed loop recycling on site
- Performed by a specialized service provider

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## Contact

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