

Biogas Plant

from Waste to Energy



Complete plants from process engineering
to plant operation



Biogas plant - 1.4 MW - food waste



Biogas plant - 500 kW - manure and silage

WASTE to ENERGY

Instead of spending money for waste disposal, you can generate electric and thermal energy from organic waste to support the energy demand of your application or to sell to the local power supplier.

Applications

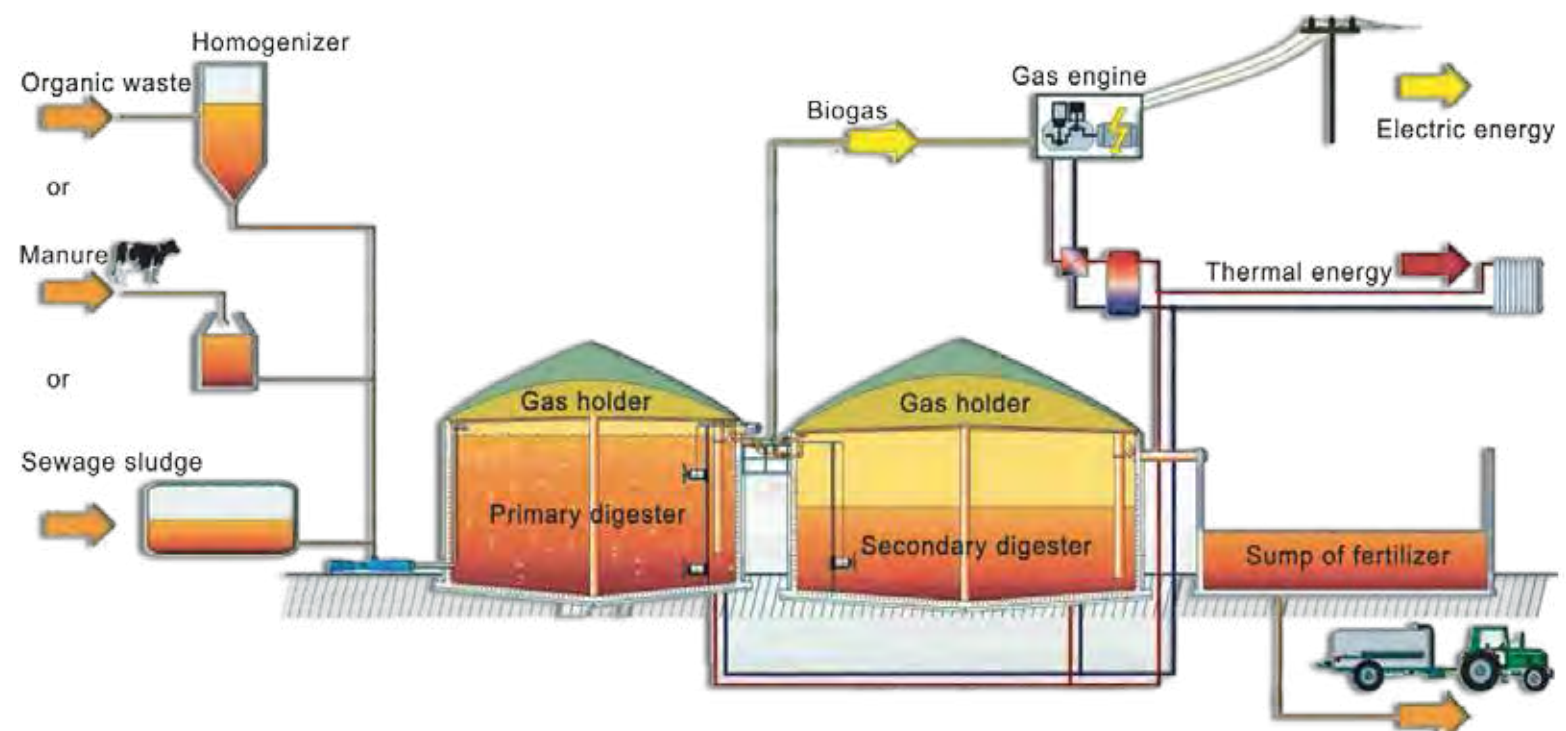
- Food industries
- Agro industries
- Slaughter houses
- Diaries
- Waste water treatment plants
- Farms and etc.

Input

- Communal organic waste (household waste)
- Green and plant waste
- Industrial food waste (organic material, process water)
- Communal sewage sludge
- Liquid or solid manure (Animal farms)

Output

- Heat: 1 ton slaughter house waste (30% dry matter) can produce 683 kWh th.
- Electricity: 1 ton slaughter house waste (30% dry matter) can produce 618 kWh el.
- Fertilizer: Nutrients are better available for plants than in mineral fertilizer.
- No costs for disposal of organic material



Renewable Energy:

Energy derived from oil, coal or nuclear power is getting more difficult to access day by day because of the rising prices, pollution of the environment, health risks and availability. On the other hand the sources of organic waste are increasing, waste disposal is costly and has environmental impact.

In a biogas plant you convert organic waste through fermentation and co-generation to energy and beneficial fertilizer.

We are offering:

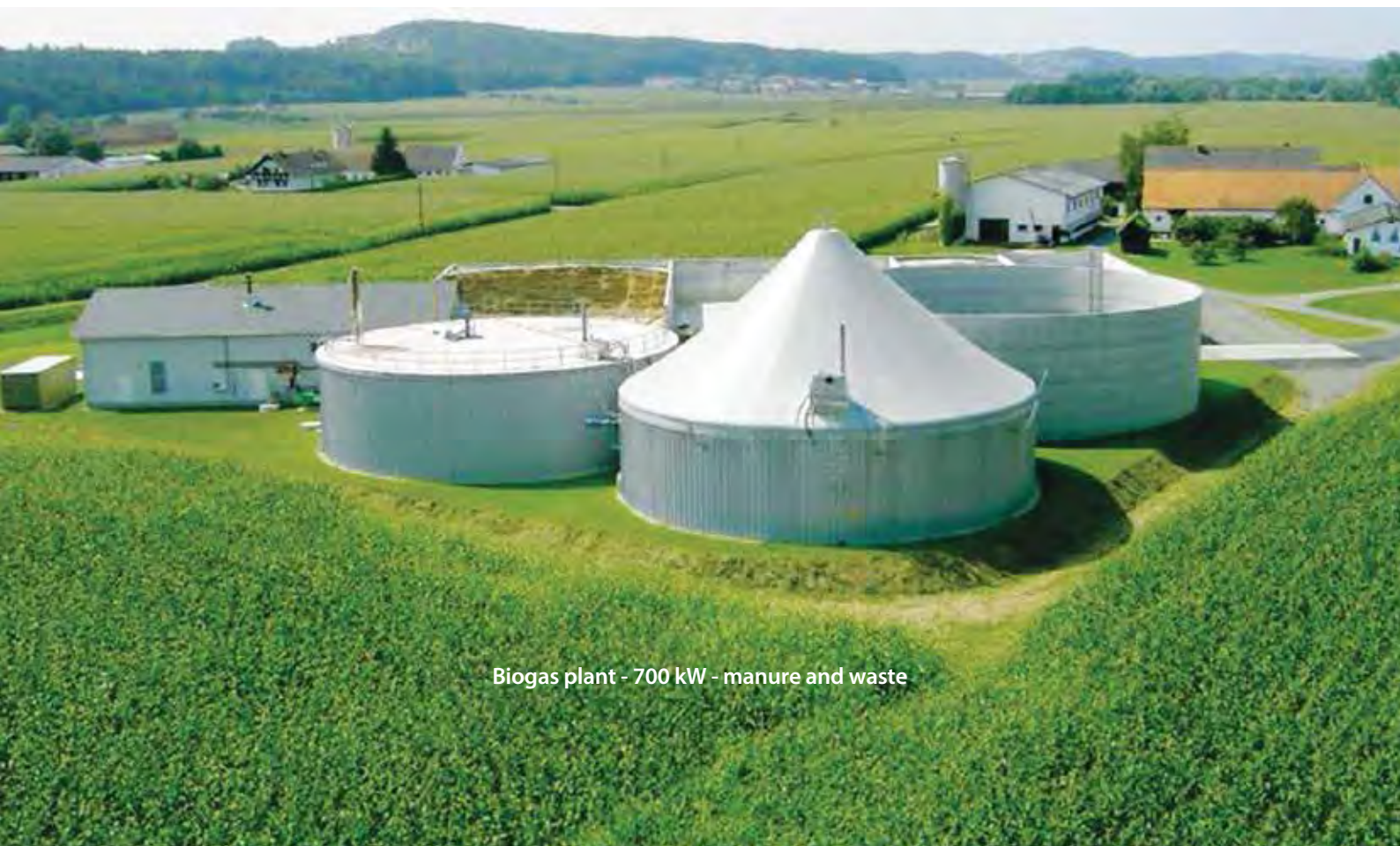
- Feasibility studies
- Plant design
- Process engineering
- Construction and installation supervision
- Start up
- Operation supervision (Control of microbiology)
- Equipment
- Digester
- Agitators
- Pumps
- Gas storage tanks
- Co-generator
- Desulphurization plants
- Flares
- Biogas handling equipment
- Waste gas bio-filters



Biogas plant - 500 kW - manure and silage



Co-generator - 1.3 MW - food waste



Biogas plant - 700 kW - manure and waste

MENA WATER

OUR AIM - YOUR CONFIDENCE



MENA WATER FZC

P.O. Box: 120881, D3-11, SAIF Zone

Sharjah, United Arab Emirates

Tel.: +971 6 5575507

Fax: +971 6 5575508

E-Mail: info@mena-water.com

www.mena-water.com

MENA WATER GmbH

Industriepark Erasbach A1

92334 Berching

Germany

Tel.: +49 8462 201 390

Fax: +49 8462 201 239

E-Mail: info@mena-water.de

www.mena-water.de



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