Biogas

Flexible – Reliable – Climate-friendly

Ecogas

Ingeniously simple
Solid manure is introduced via the insertion shaft. ① By the pump ② the substrate is taken from the vessel, it is heated over the heat exchanger ③ and is sprayed/splashed back into the vessel by the substrate nozzle. ④
Ecogas-system

Vessels

Concrete vessel

Foil-ground lagoon
Ecogas-system

Technical building
Ecogas-system

Heat exchanger
Ecogas-system

Substrate nozzle
Ecogas-system

Insertion shaft
Ecogas-system

Control
Advantages

Biogas in general
• unlimited and permanently available
• generating of energy from residual materials and renewable raw materials
• production close to the final consumer
• end products: heat, electricity, fertilizer, gas
• reduction of environmental pollution

Ecogas-system
• low system maintenance and reparations
• low consumption of self-produced power about 5%
• low operating costs
• 95% utilization
• flexibility of substrate usage
• possibility to expand finished plants
Selected reference plants

Foil-ground lagoons

Electrical power: 500 kWel

Electrical power: 527 kWel

Electrical power: 1189 kWel

Concrete vessels

Electrical power: 75 kWel

Electrical power: 250 - 450 kWel

Electrical power: 527 kWel
Photovoltaics

Simple – Reliable – Environment-friendly
How does a photovoltaic system work?

The photovoltaic system generates electricity from the sunlight, which can be consumed directly or fed into the power grid.
Advantages of photovoltaic systems

- The sun itself is available as an inexhaustible source of energy and costs nothing.
- Low maintenance. Solar modules have a life expectancy of at least 25 years. Only the inverter is subject to wear.
- No noise nuisance, no odour nuisance, no pollutants, no (CO₂) emissions.
- Flexible plant sizes through modular design → 1 kWp up to several MWp.
- Decentralised energy supply - electricity is generated where it is needed.
Zielsetzung / Interesse Kuba

- Construction of photovoltaic systems
- Construction of biogas plants according to the Ecogas-system
- Cooperation with local partners
  - project developers
  - Distribution
  - Financier
  - Operator
- Find general contractor
Thank you very much for your attention

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