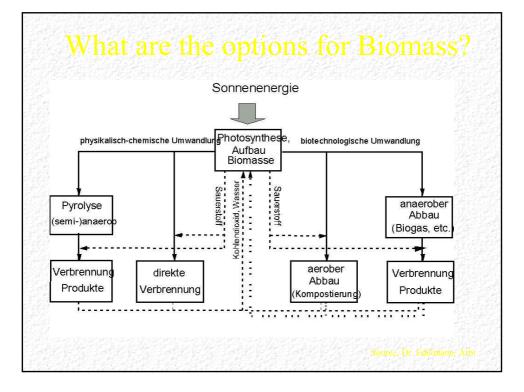
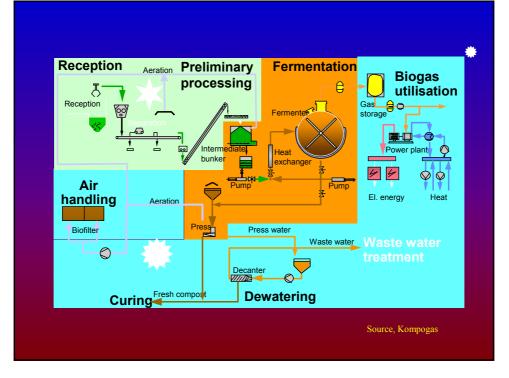
Biomass Fermentation: Fermentogas – the clean Fuelsaver

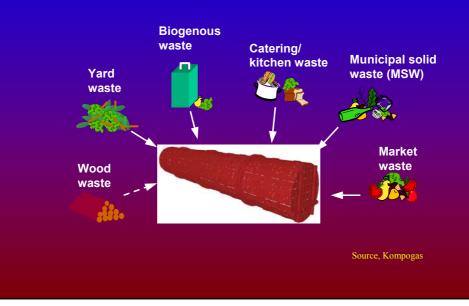
- Markus Real, Omega Real Ltd. Brasil*
- André de Reynier, Edra, Brasil*
- Theo Huwyler, Kompogas, Switzerland

*Bagasse Biorefining Ltd

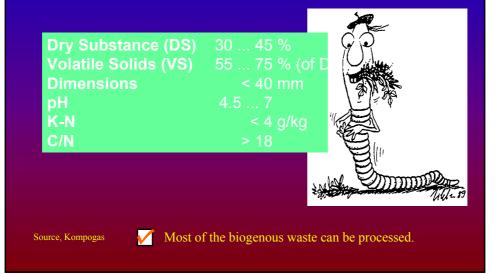




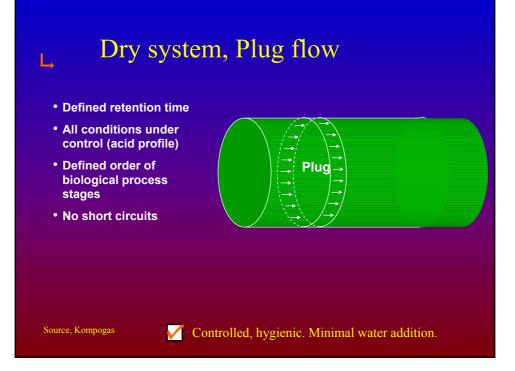
What kind of waste can be processed?



What are the optimal input properties?



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How can I use biogas?

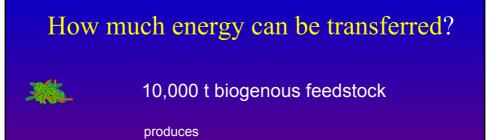
Methane	CH₄	97 %
Carbon dioxide	CO_2	3 %



KOMPO-GAS is the only system which offers biogas at fuel stations.



Production of electrical and thermal energy.



1,180,000 Nm³ Fermento-GAS



which allows production of

2,200,000 kWh electrical energy and

3,800,000 kWh thermal energy.

1kg biogenous feedstock = 5.5h of light with 40W bulb.

Project Fermentogas – the clean fuelsaver starting points

- Proven modular fermentation techonolgy, based on Kompogas Know-how
- Proven technology for byfueling existing Dieselmotors with Fermentogas
- Proven for various feedstocks materials

Project Fermentogas, the fuelsaver:

- Rural electrification, fueling existing dieselpowered minigrids, minimal size 50 kW
- Fuelsaver for multimegawatt Dieselpower plants
- New biomass power plants to generate electricity by fermentation instead of incineration. (in competition to burning biomass and powering conventional steam turbines).

Project Fermentogas – action plan

- Feasibility study (cost analysis for the three markets evaluated)
- Detail design pilotplant, financing
- Pilotplant, learning curve for the technology in rural environment
- larce scale introduction of technology, modular technology, local construction