

sustainable  
sanitation  
alliance

# **Sustainable Sanitation Alliance**

## **THEMATIC WORKING GROUP**

### **Sustainable sanitation, renewable energies and climate change**

03rd and 04th November in New Delhi (India)

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# Objectives / Goals

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- Underline the importance/potential and interconnection between sustainable sanitation and renewable energy (reuse)
- Develop a network of suitable partners (new partners, e.g. biogas producers, energy farmers)
- Collect and publish relevant info-material
- Demonstrate the potential of local use of residues for local renewable resources for energy purposes- case studies-
- Interconnect the topic with relevant discussions (climate change)

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# Targeted Outcomes

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- Info package for users (guidelines, cost-benefit analysis, best practice examples, info-sources) **Summer 2008**
- Info package for municipalities (overview of suitable options, cost-benefit analysis, best practice examples, info-sources)
- Characterize and select suitable sources of waste/wastewater for production of energy, **March 2008**
- Development of suitable modules for existing and upcoming sustainable sanitation (collection of success stories & best practice examples) **NETSSAF**
- Local energy and climate projects with the focus of implementation
- Publications and related events

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1. General context
2. Energy security, current worldwide situation & approaches to tackle it (food and non-food crops)
3. Health aspects & guidelines for safe reuse, Health risks & positive aspects,
4. **Collection, treatment & reuse options and modules**
5. **Content & Properties of the Different Resource Flows, Resource value (fertilising properties, soil conditioning properties, energetic aspects),**
6. Pathogens & contaminants in the sanitation resources
7. **Advantages & benefits regarding energy security & resource reuse,**
8. **Economic benefits**

## Current status

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1. Members of the group (TTZ, gtz, BGR, IFAD, Xavier University, PUVeP, SLU, Uni-Hohenheim)
2. Terms of reference- draft developed
3. List of literature – draft developed
4. Fact sheet – first draft developed
5. Data compilation sheet – final draft developed
6. List of case studies – still open
7. Integration of environmental and climate aspects (e.g. groundwater issues) – Dec. 2007

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## Ongoing activities

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1. Acquisition of new Members (ongoing process)
2. Continuing the work on fact sheet, data compilation sheet and major publication (November & December)
3. Finalisation of data compilation sheet (End of October)
4. Working meeting end of August (GbR & TTZ)
5. SuSanA conference in New Delhi (November 3rd and 4th 2007)
6. Collection of case studies (energy related)
7. Preparation of Conference (Oct. 2008)

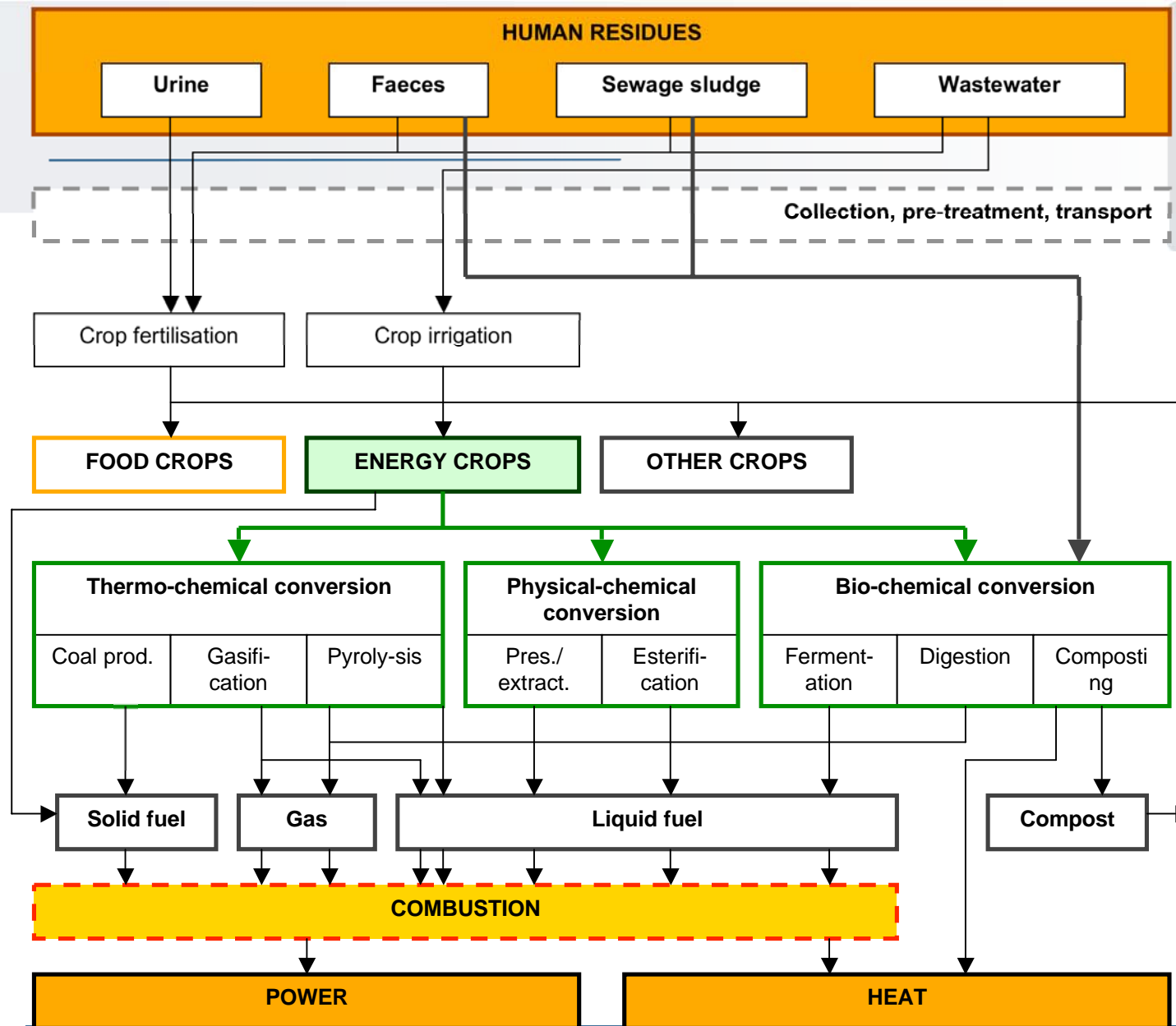
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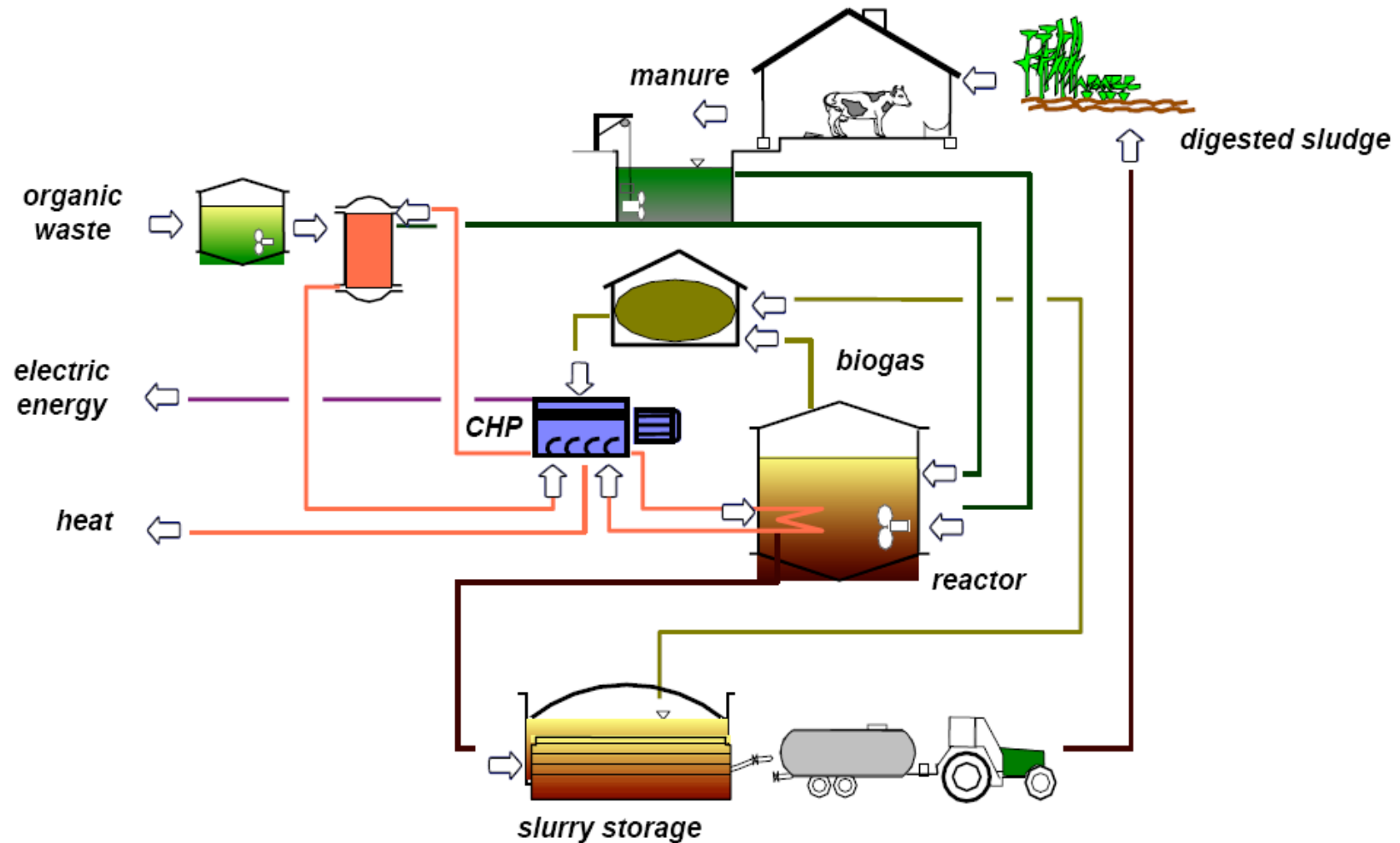
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# BIOGAS PRODUCTION

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# BIOGAS PRODUCTION

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## BIOGAS from human waste:



Decentralised biogas plant

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# SHORT-ROTATION-PLANTATIONS

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## From Waste to Energy



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# Wastewater to energy

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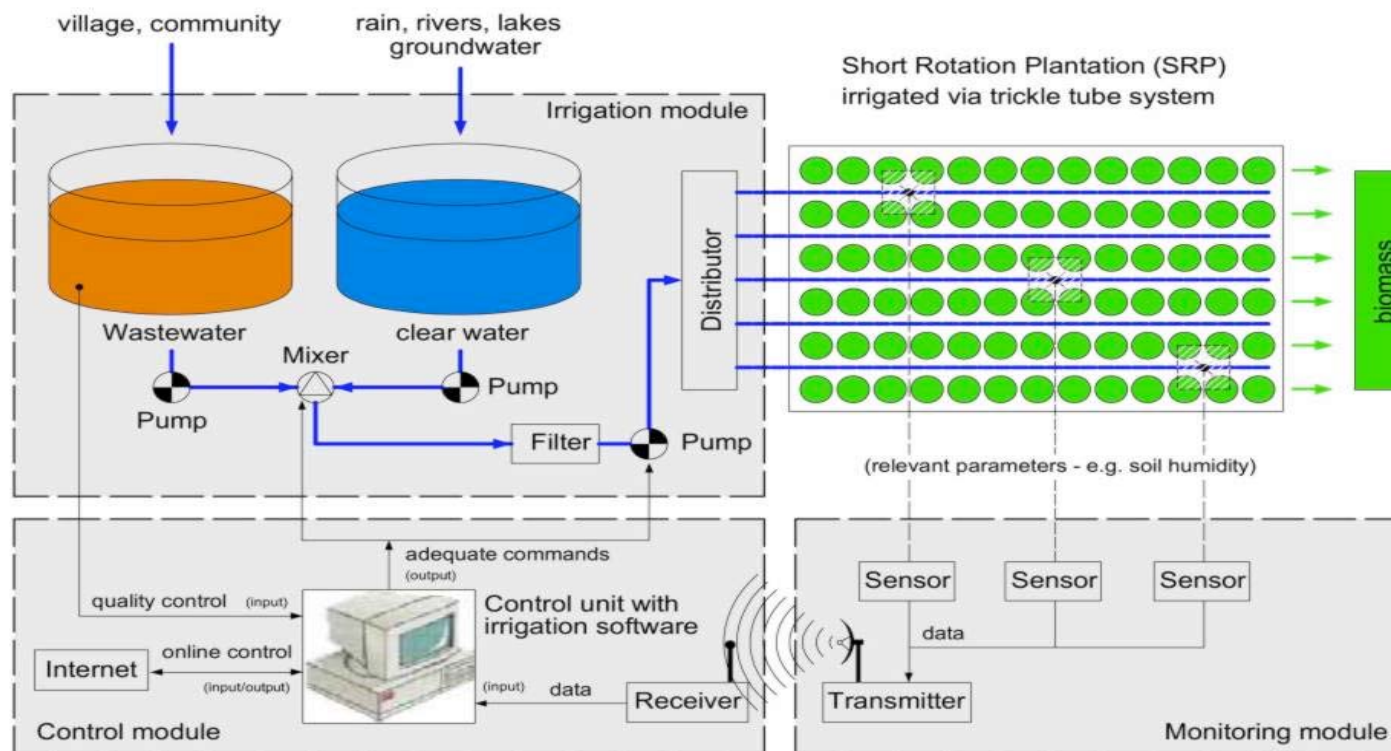
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# SHORT-ROTATION-PLANTATIONS

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## Monitoring Control System for Wastewater irrigated Energy Plantations



# AGROFORESTRY

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**Best practices of agroforestry and waste/water management and sustainable ecological productivity.**



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Source: TTZ 2005



- NETSSAF Final Conference on Sustainable Sanitation in West Africa (Ouagadougou, Burkina Faso, 24-26. September 2008)
- International Symposium on Coupling Sustainable Sanitation & Groundwater Protection (14.-17. October 2008, Hanover, Germany)

**End**

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**Thank you for  
your attention !**

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