Presented at



Seminar and Site Visits 26-28 August, 2010

Decentralised Waste Water Systems

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Drinking water . Dirty effluent . Clean waste water

- Water scarcity will create awareness of unsustainable water practices, thereby augmenting the need for water reduction measures and proper treating of waste water
- Treating waste water with minimal dependency on external energy and maintenance procedures
- To achieve discharge standards
- To be able to reuse wastewater and its contents

Decentralised Waste Water Treatment | Tency Baetens Aug 2010

Decentralized waste water treatment systems

- Suitable for treatment of wastewater flows from 1-1000 m³/d
- Tolerant to inflow fluctuations
- Uses as much as possible gravity instead of pumps, avoiding valves
- Aims towards reliable and long-lasting devices
- Anaerobic technology in warm climates, aerobic technology in colder climates
- The treatment is achieved by channeling the waste water through different devices, using natural anaerobic and aerobic processes

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- A structure filled with gravel material
- Water resistant plants provide oxygen to the passing effluent
- Retention time is 1 day.
- Pollution reduction is 90%

Treatment Efficiency



Treatment Efficiency









































"And justify the light on Nature's face."

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