

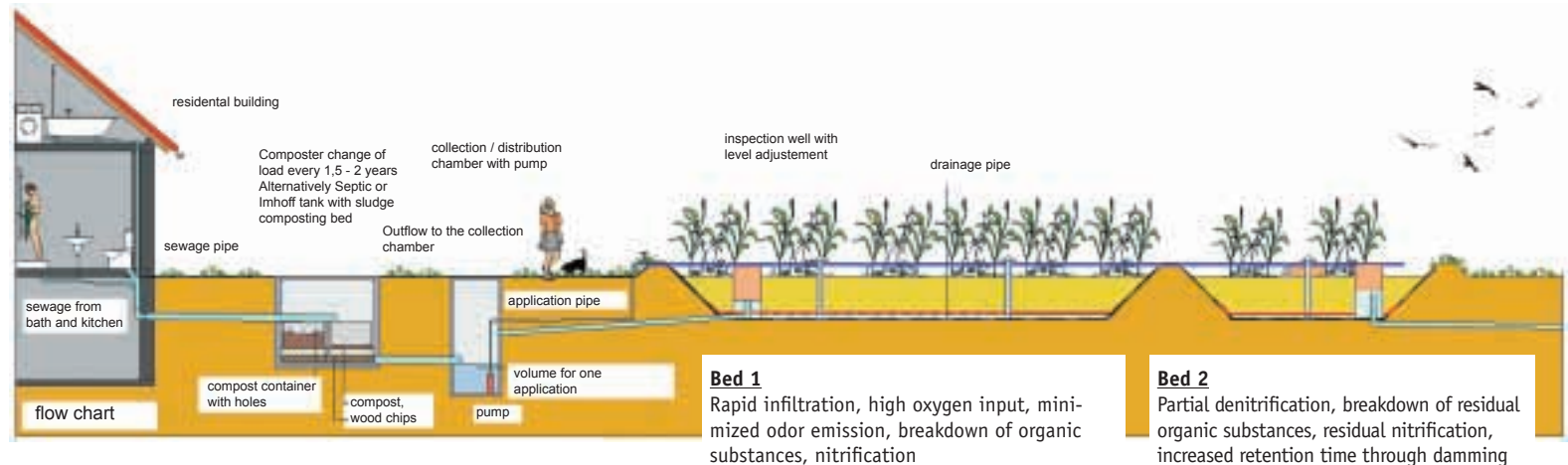
# Would you like to treat your municipal waste water inexpensively on the spot?

... with almost no maintenance?

Planted soil filter for **municipal waste water treatment**  
 Since 1993 a proven, patented, 2-step system with recirculation  
 Optimized waste water treatment for communal facilities and municipalities

## Advantages over technical plants:

- High operating stability through the combined effect of soil, plants and microorganisms
- Minimal use of electricity
- Minimal need for maintenance
- Efficient removal of nitrogen possible already in the standard version
- Removal of persistent substances through adsorption and decomposition in the humus layer
- No waste; but valuable resources



The treatment efficiency for organic substances (COD, BOD<sub>5</sub>) is much better than required by the national regulations. However, to promote water and ground water protection, local water authorities have in part set further limits, for example for nitrogen and phosphorus. By installing minor additional equipment and by adjusting the process steps, it is possible to fulfill practically all requirements.



ÖKOTEC's first facility for 300 population equivalents (PE) at a residential area with a seminar center in Belzig, Brandenburg, has been in operation since 1993 and has ever since continuously produced good effluent values. The ÖKOTEC system, with its 2-step construction, has repeatedly proven itself effective for waste water treatment.

The following average output values are achieved reliably through the planted soil filter:

Parameter	Effluent soil filter	concentration limits*
COD	≤ 40 mg/l	≤ 110 mg/l
BOD <sub>5</sub>	≤ 10 mg/l	≤ 25 mg/l
Ammonia-N	≤ 10 mg/l	--- (≤ 10 mg/l ≥ 5000 PE)

\* According to the German regulations for facilities serving up to 5,000 inhabitants

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**ÖKOTEC** GmbH  
 for water is precious

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