

Project B 31, Living Space Reinbek

Area: 4,2 Hectare

The project area of 4,2 ha offers the space for about 200 people in 40 - 50 flats. (Architect N. Roderjan, Landscape Architect: R. Herms)

The project will demonstrate new concepts, technologies and products for minimising wastewater, separation of faeces, urine and water and reusing treated wastewater. Furthermore the potentials of reuse of rainwater can be demonstrated. The decentralised generation of electricity and heat will include the use of organic wastes and leftover wood from logging activities.

The project comprises of the following elements:

1. Drinking water supply by rehabilitating the existing deep ground water well on the site,
2. Minimising wastewater by modern sanitation technologies (separation toilets, dry toilets, separation of urine and faeces, urine will be used for soil improvement)



3. Remaining wastewater being treated at the treatment plant on the project site (anaerobic treatment of sludge, rootzone treatment) for reuse in irrigation.
4. Rainwater run-off collected in a pond and in a balancing tank for drinking water substitution for toilet flushing, washing machines and for groundwater recharge.
5. Anaerobic treatment of organic waste, use of methane gas and sludge from waste water treatment for energy production.

Block heating and power generating plant that produces energy from renewable resources (methane gas, wood pellets, solar energy)

