



Demonstrating synergies in combined natural and engineered processes for water treatment systems

Context

Processes for water and wastewater treatment systems can be substantially improved through the systematic combination of engineered and natural components.

Objectives

The AquaNES project operates 13 pilot plants in Europe, Israel and India to demonstrate the benefits of these combinations on a technical scale. Two demonstration sites are located in Berlin.

Activities

- Combination of bank filtration and groundwater recharge with several technical water treatment processes (nanofiltration, ozonation, activated carbon)
- Coupling of constructed wetlands with enhanced technical processes of waste water treatment and disinfection
- Two demonstration sites in Berlin: combination of ozonation processes and a natural post-treatment for the elimination of trace organic compounds in wastewater effluent as well as the combination of bank filtration and nanofiltration for the removal of sulphate and trace organic compounds during drinking water extraction.
- Coordination of test sites in Germany, the UK and Greece related to constructed wetlands and soil filters



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Project Volume: 10.7 M € (551 k€ KWB)

Partners
Kompetenzentrum Wasser Berlin in a consortium of 30 partners from Europe, Israel and India, coordinated by the University of Applied Sciences and Arts Northwestern Switzerland

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