

# Local wastewater treatment

Desah has developed a modular approach to treat source separated wastewater locally. This source separated wastewater consists of two streams, a highly concentrated black water stream from vacuum toilets + kitchen waste, and a diluted grey water stream. From black water energy and fertilizer can be recovered. From grey water heat can be recovered and the treated water can be reused.

The Desah concept is suitable for new neighborhoods, high-rise buildings, hotels and remote settlements and has the following advantages:



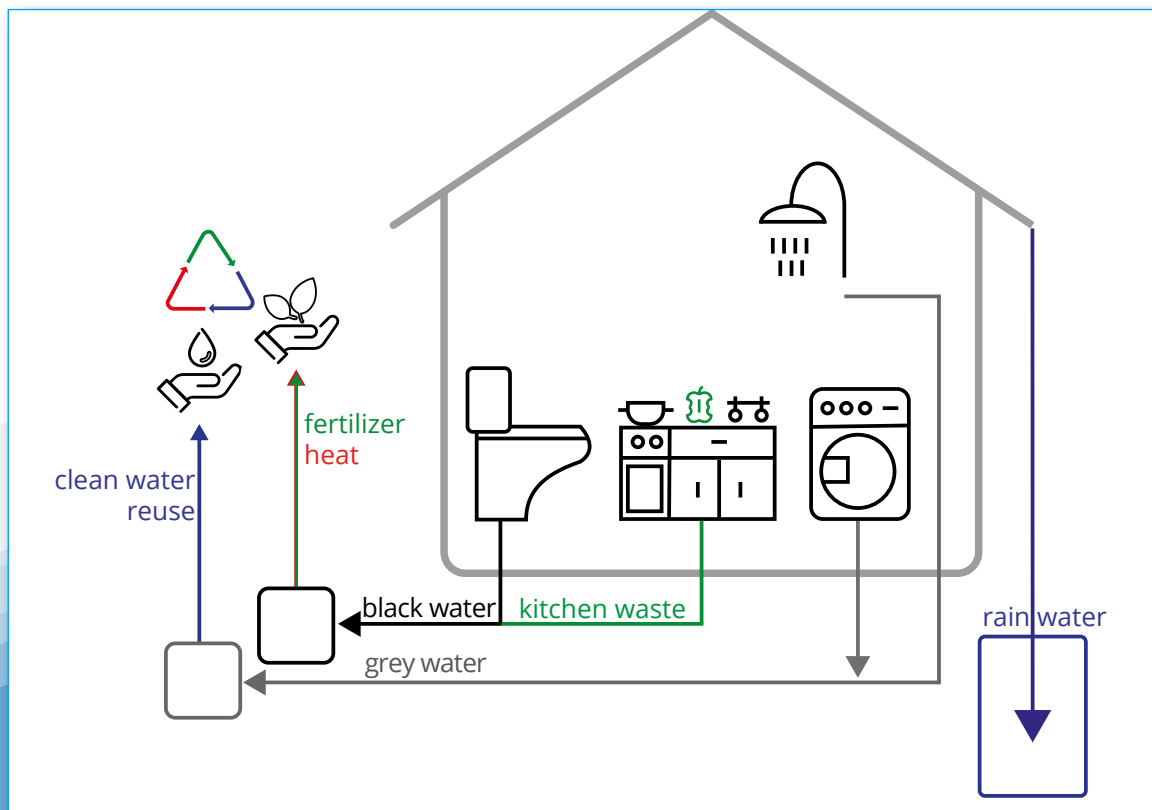
- >90% water saved by vacuum toilets
- extra potable water saved by non-potable water reuse
- decentral, localized; no sewer connection needed



- recovered nutrients can be used as fertilizer
- effective removal of micropollutants: medicine, microplastics, heavy metals, PFOA, bacteria and viruses
- non-potable water use for irrigation



- energy positive wastewater treatment process
- supplies 10-30% of energy needed for heating of residential buildings



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wastewater treatment plant for City of Helsingborg, RecoLab, Sweden, 2100 persons



installation of black water reactor for a government office building in The Hague, NL



Lemmerweg-Oost, Sneek (NL), wastewater treatment for 32 houses realized in 2005



Noorderhoek, Sneek, (NL) "Waterschoon" project, local wastewater treatment for 230 houses

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