WATER CARDS

You need to select both drinking water and wastewater treatment solutions!

Drinking water solutions:



Drinking water from groundwater The drinking water is pumped from the ground. Pros: -Groundwater does not need much cleaning Cons: - Groundwater needs to pumped up, which needs energy - Can result in lowering the level of groundwater

(I grid)



<u>2 10 000 - 50 000</u> 3 10

Drinking water from the river

The drinking water is taken from the river.

Pros:

-Low energy consumption for pumping from the river

Cons:

- Higher demand for cleaning of the river water

(3 grids)



2 10 000 - 50 000 32 20

Advanced wastewater treatment plant and sludge digestor

Wastewater cleaned with advanced membrane and UV processes and the resulting sludge is biologically decomposed in an anaerobic digestor.

Pros:

- Technologically advanced
- Energy recovery from sludge

Cons:

- Advanced processes demand electricity
- Sludge digestion demands land area

(3 grids)



Chemical wastewater treatment with sludge

incinerator Wastewater is cleaned using chemicals. The resulting waste-water sludge from the chemical use is then incinerated.

-Efficient and relatively easy to operate -Small need for land area

(2 grids)



Biological treatment of wastewater through a reedbed

The wastewater is cleaning using plants: water plants, such as reeds are used to filter impurities from the water - No need for energy or chemicals

Cons: - Needs large area

(4 grids)