

**FESTEL CAPITAL**

Dr. Gunter Festel  
Schuermattstr. 1, CH-6331 Huenenberg  
Phone +41 41 780 1643  
Mobile +41 796 527 112  
Email [gunter.festel@festel.com](mailto:gunter.festel@festel.com)



## Partial Desalination of River Water by Membrane Application

### Summary

Process based on membrane technology combining ultra filtration and reverse osmosis.

A high and consistent water quality is reached in just a few process steps.

Industrial partners and financial investors are sought for various possible commercialisation options.

### Background

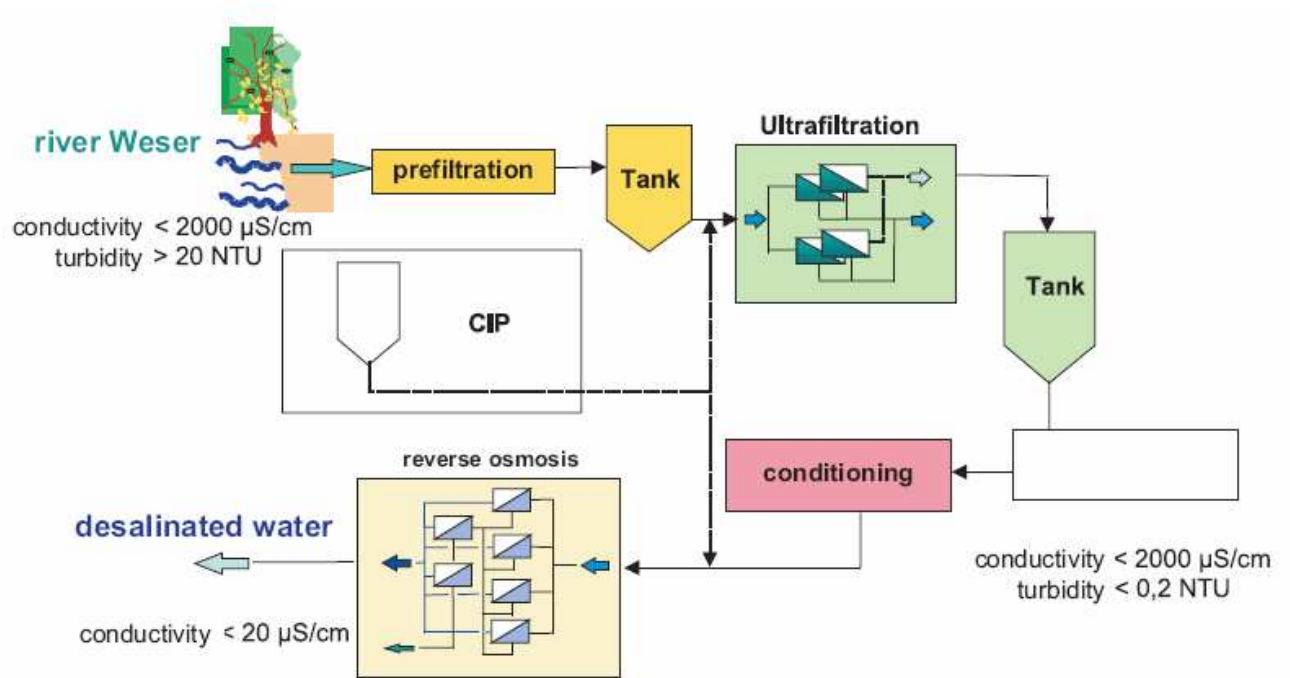
The future treatment of surface waters will become more and more important due to the decline in worldwide water reserves of sufficient quality for the production of drinking water and desalinated process water. FESTEL CAPITAL is supporting a German university to commercialise an innovative technology for river water treatment.

### Description

A process based on membrane technology has been developed. The successful operation of a pilot plant has shown by combining the processes of ultra filtration and reverse osmosis, river water can be treated very efficiently. Thus, the innovative process design is a future-oriented technology which produces a high and consistent water quality in only a few process steps and at reduced space requirements. This innovative process (see below diagram) consists of the followings steps:

- Preliminary purification
- Ultra filtration (UF) and
- Reverse osmosis (RO).

The capacity of the installed pilot plant is 30 m<sup>3</sup> partially desalinated water per hour.



Process water derived from river water by means of UF and RO

## Investment Opportunity

The aim of FESTEL CAPITAL is to commercialize this innovative river water treatment technology. In the search for industrial partners and financial investors different commercialization options, such as founding a dedicated start-up company, out-licencing or a sale of all relevant intellectual property and know-how, are possible. Detailed information can be provided after the signing of a confidentiality agreement.

## Disclaimer

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## About FESTEL CAPITAL

FESTEL CAPITAL is an advisory and investment firm focusing on the commercialisation of technologies in the areas of energy, environment, health, materials and nutrition.

CONTACT: Dr. Gunter Festel, Schuermattstrasse 1, CH-6331 Huenenberg/Zug, Phone +41 41 780 1643, Mobile +41 796 527 112, E-Mail [gunter.festel@festel.com](mailto:gunter.festel@festel.com).