

- The Water Matrix (Sources, Usage, Discharge)
- Desalination & Me
- Surface Water & Filtration
- The Danube & Reuse & Pollution



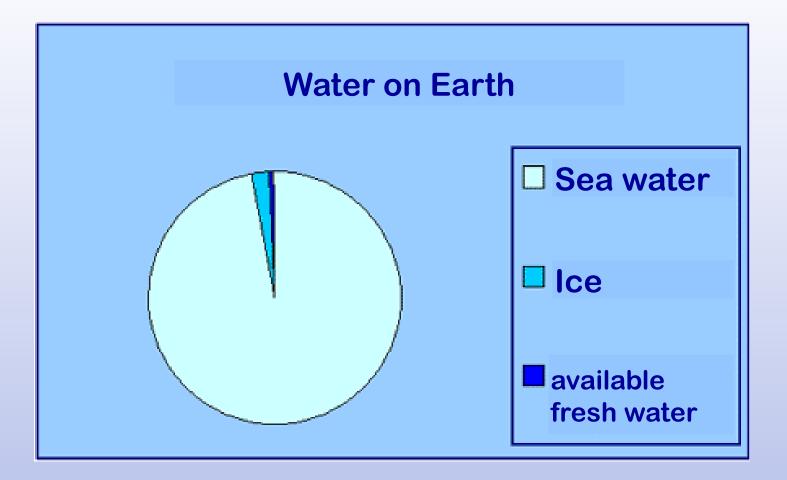
Water Resources on Earth

	Volume x 10 ³ km ³	% Total Volume	% Fresh Water	Years for Renew
Oceans	1 370 323	93.94	-	3 000
Deep Well Water	60 000	4.11	-	5 000
Active Well Water	4 000	0.27	14.09	330
Ice	24 000	1.65	84.57	8 000
Lakes	280	0.02	0.99	7
Humidity in Soil	85	0.01	0.30	1
Atmosphere	14	0.00	0.00	0.03
Rivers	1.2	0.00	0.00	0.03
Fresh Water Total	28 380.2	1.95	100	
Water Total	1 458 703	100		2 800

"according to Lvovitch 1979 cited at Schwoebel: Einführung in die Limmologie 6. Auflage Stuttgart 1987"



Water Resources on Earth









Fresh water / Products und Sources

Products	Drinking Water Industrial Water
Sources	Process Water; Washing Water
Croupd Water	Cooling Water: Boiler Food
Ground Water	and the second
Well Water	
Surface Water	
Sea and Brackish	a second and a second second
Water	
Recycled Water	



Water Substances

H_2O	suspended	dissolved
inorganic	Colloids Dispersed particulate matter Clay,Sand etc.	Iron,manganese, Ammonia, Arsenic, Bromide Colour, Taste, Odour; Salts, Hardness etc.
organic	Microorganisms (Viruses Algae Bacteria Giardia Cryptosporidium) Organic particles etc.	DOC (Humic acid Colour, Taste, Odour, Pesticides VOC) etc.

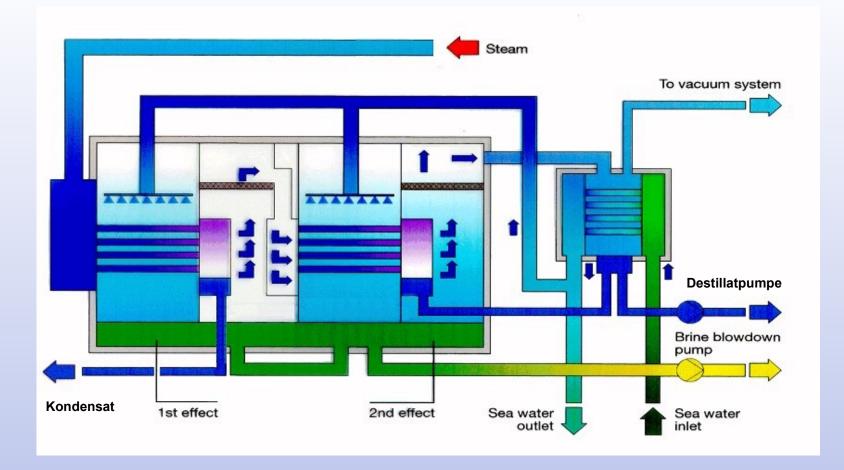


Thermal Desalination





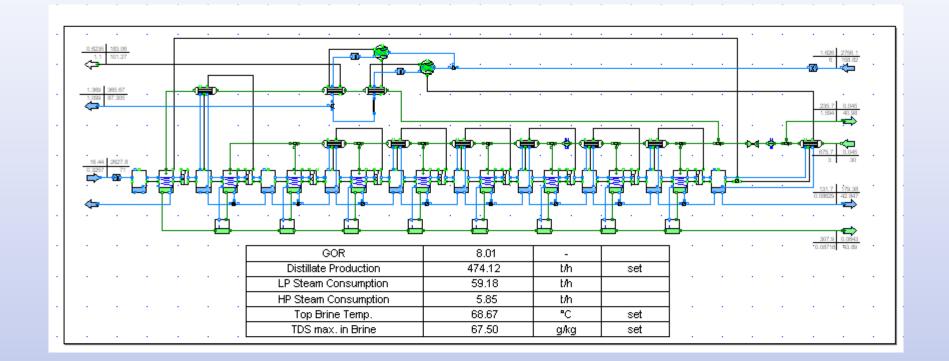
MED - Multi Effect Distillation Process



sustainable solutions. for a better life.

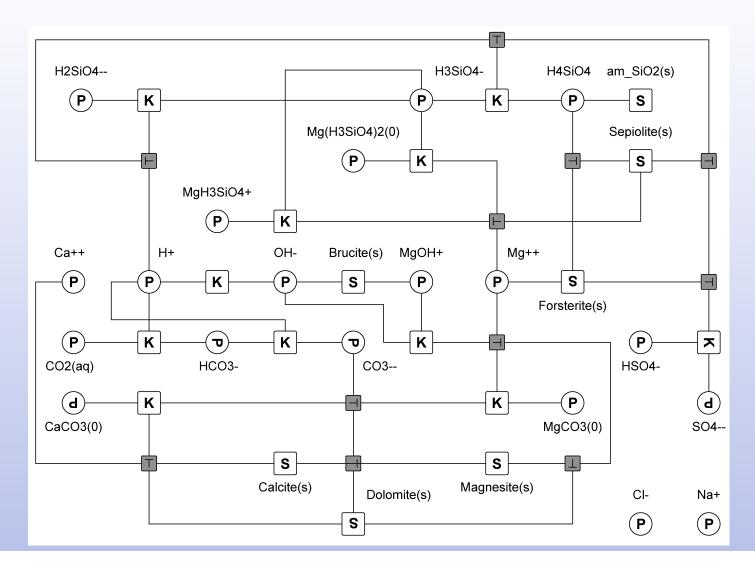


Simulation Thermal Desalination



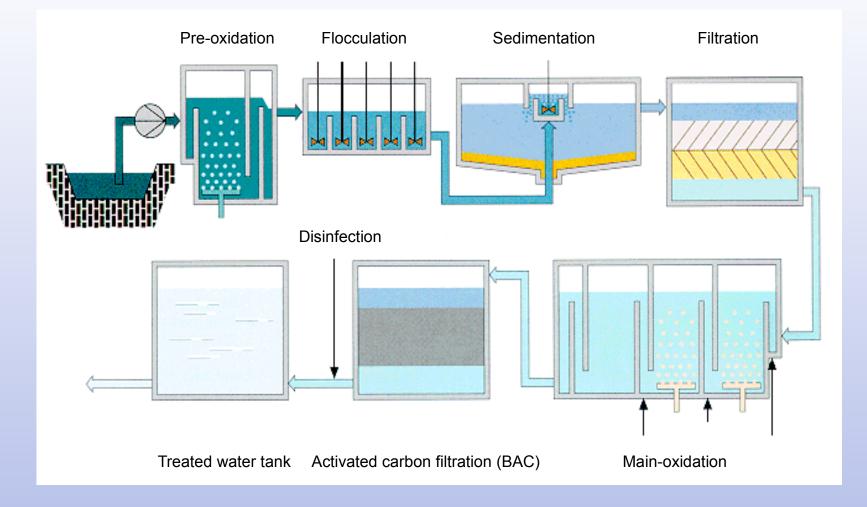






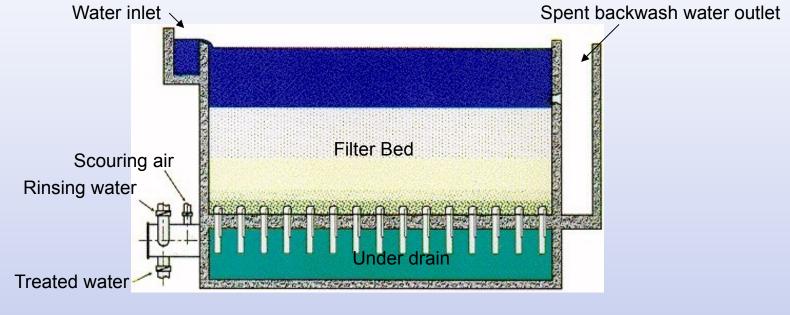


Process Scheme Surface Water Treatment for organically loaded Raw Water



WABAG

Deep Bed Filtration



"Multiple Manhole"

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Danube River Basin



Basin countries

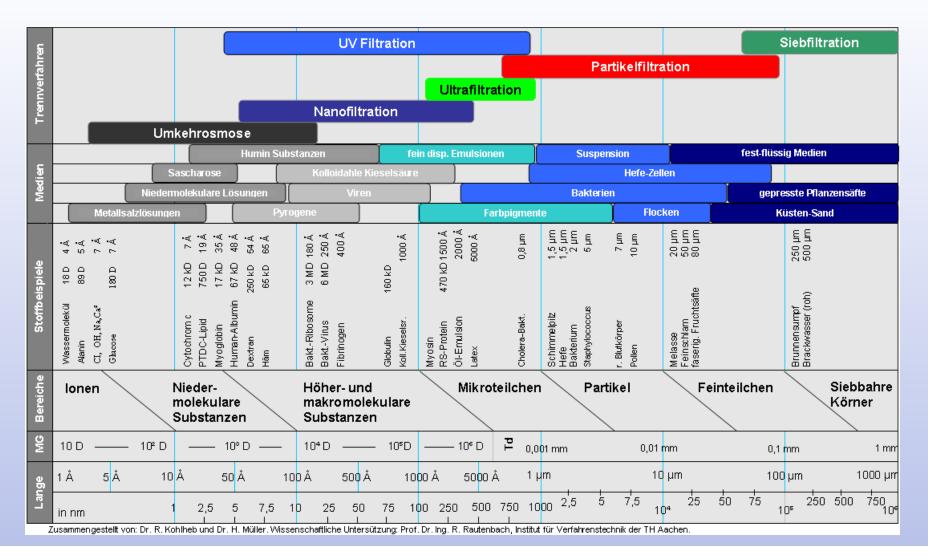
Riparian countries (from upstream to downstream): Germany, Austria, Slovakia, Hungary, Croatia, Serbia & Montenegro, Romania, Bulgaria, Moldova, Ukraine.

Additional basin countries: Poland, Czech Republic, Switzerland, Italy, Slovenia, Bosnia-Herzegovina, Albania, FYR of Macedonia.





Filtration



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