



> Sea water results in drinking water – without any environmental impact.



Energy for the Future
Water for the World

> Water for the world.

Water – our elixir

Human life is not possible without pure water. Water is the natural basis of life. In more and more countries water is running short. Pure water will turn out to be a rare luxury good, whereas the water demand is permanently rising: never before the worldwide water consumption has been that high.

Water is running short

According to OECD estimates, today about 1.1 to 1.3 billion people do not have any access to pure drinking water. Water shortages result in jeopardizing a stable growth: the provision, purification and exploitation of water will be more and more difficult in many regions.

Water deficiency - already a fact

Already today the water consumption of several countries such as Yemen, Uzbekistan, or Israel is even too high to be compensated. China and India, the most populous countries in the world fully exploit their water supply, too. In these countries, the water deficiency is foreseeable – as well as in the South of Europe. This is what the current WWF study “the problem of aridity in the Mediterranean area” shows. Turkish metropolises have to turn off the water on hot summer days. Major cities in Spain must procure drinking water by truck from France.

Water procurement – our future challenge

The provision of pure water for everyone – one of the big challenges of the next years. A possible solution: water treatment by means of seawater desalination. A common method, already today. However, the high risk for the environment might not be underestimated: the so-called reverse osmosis releases a return of the salts to the seawater which leads to a slow rise of the salt concentration, short- and medium-term, and to a complete intrusion, in the long term – a danger for the environment as well as for human beings.

Looking forward to finding solutions for the sea water desalination of the future

The G+R Technology Group is intensely involved in the development of a process being able to cope with the basic problem of today`s sea water desalination – i.e. the rising salt concentration. The idea: a systematic segregation of water and solute salts. The pure drinking water might thus be re-used as well as the salts are used as raw materials e.g. for the industry. The sea water intrusion would then no longer be a problem and, at the same time, the water deficiency could be effectively and environmentally conscious be fought against in many regions worldwide. A decisive step ahead on the way to pure water for the world.

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