



Water



ECONOMICAL GROWTH , CLIMATE PROTECTION, EDUCATION IMPROVEMENT... ALL THESE ITEMS ARE CONCILIABLE!

For more than 10 years, TMW has considered hydric stress as a key challenge for the 21st century. In Sub-Saharan Africa, Persian Gulf countries are immediately identified as areas under a strong water stress, other developed countries such as Australia, California are, or will be equally concerned in the near future.

Hydric stress may jeopardize development possibilities for certain countries: agriculture is not possible because of the lack of water; the time spent by walking on the roads to look for water, is time lost for children training and education. It is a typical situation in sub-Saharan African countries.

fossil energies consumption with their consequences on environment conditions. This analysis has been made many times, but nothing changes.

During this COP 21 event, we must promote any projects environment friendly and try to reconcile the irreconcilable: economical growth, based on education, and respect of environment and climate. TMW is one of the partners involved in MICROSOL project, co-financed by ADEME and under Schneider management. MICROSOL objectives consist in delivering energy and water in isolated and arid zones. TMW is in charge of the water production of the project.



MHD technology, developed by TMW, can treat any kind of polluted waters: high salinity waters, brackish waters, acidic or basic waters... It can extract pure water available for human consumption. This process maximizes pure water production if we compare it with alternative desalination processes such as reverse osmosis. MHD doesn't need any heavy infrastructure and can be operated as a stand-alone, autonomous unit using any kind of energy (solar PV or thermal...), and no fuel consumption.

Another example: Arabo Persian Gulf countries. In spite of their wealthy economical position, their situation versus water stress is quite similar, and forces them to realize huge investments in heavy infrastructures dedicated to water production with unlimited sea water desalination projects, based on

TMW MHD equipments, called AQUASTILL, are fully modular, and their water production capacity may be adapted to customer requirements: isolated zones, villages, life bases, are the most immediate applications for the MHD process. On-site drinkable water production gives the local population the opportunity to remain on their homeland and to focus on their own economical development.

TMW has proven the efficiency of MHD technology through its involvement in MICROSOL project and AQUASTILL is now requested by many customers for various projects all over the world: Saudi Arabia, Kuwait, Pacific islands or West Africa countries.

10 M3 drinkable water daily production: it is 200 people who can be trained and educated and can participate to local economy... with an unlimited energy resource and without any negative environmental impact. It is a strong and efficient contribution to Sustainable Development



ADEME



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