REvivED water

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DESTINATION DESALINATION

OVERVIEW

The demand for safe drinking water is outgrowing the planet's natural supply at an alarming rate. With seawater making up 97.5% of the world's water resources, desalination solutions are crucial for dealing with the water crisis. **REvivED water** is bringing together past experience and new technological developments in innovative applications of electrodialysis for desalination, for safe, affordable and low-energy water supply all around the world.

SOLUTIONS

Safe water from brackish sources

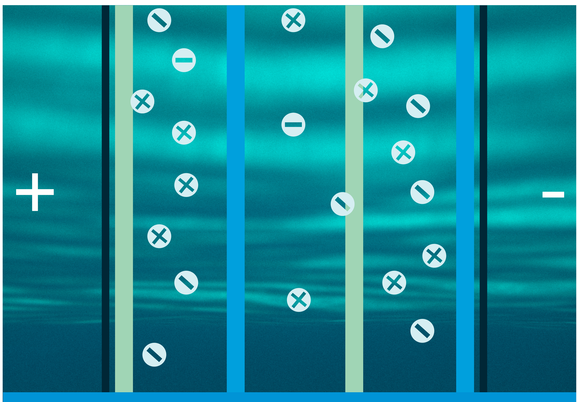
The project is trialling a new design of small scale stand-alone systems for rural areas powered by solar energy. Five pilot systems have been installed for off-grid applications in developing countries in Africa and Asia, with more underway.

Electrodialysis for seawater desalination

The latest innovations in ion exchange membranes allow the use of electrodialysis to desalinate seawater. A pilot multi-stage ED unit has been tested in the Netherlands and is currently scaled up for desalinating seawater, producing 25m^3 of fresh water per day.

Compatibility with established technologies

Electrodialysis can be added as a pre-desalination step to existing reverse osmosis systems, producing more drinking water from the same amount of seawater with less energy consumption, and at affordable costs. An industrial-scale pilot plant in Spain has been demonstrating this concept since May, 2019.



The main principle of desalination with electrodialysis: Ion exchange membranes are used and an electric potential is used to move the ions (salts) out of the seawater.

REvivED water members explaining the installation of a solar powered brackish water desalination system to local villagers.

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