CONSORTIUM

The **REvivED water** project brings together leading companies, research groups and experts from across Europe. The consortium is industry driven and comprises the whole value chain required for the success of the **REvivED water** project.

1. FUJIFILM Manufacturing Europe B.V. (the Netherlands)
2. Trunz Water Systems AG (Switzerland)
3. REDstack B.V. (the Netherlands)
4. Deukum GmbH (Germany)
5. Phaesun GmbH (Germany)
6. European Desalination Society (Italy)
7. University of Palermo (Italy)
8. Ghent University (Belgium)
9. European Centre of Excellence for Sustainable Water Technology (the Netherlands)
10. AquaTT UETP CLG (Ireland)

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REvivED water

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AT A GLANCE

PROGRAMME:
H2020 – Nanotechnologies, Advanced Materials and Production (NMP-24-2015)

TYPE OF ACTION:
Innovation Action

DURATION:
48 months (1 May 2016 – 30 April 2020)

CONSORTIUM:
10 partners from six European countries

COORDINATOR:
FUJIFILM Manufacturing Europe B.V., the Netherlands

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, affordable low energy 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 and affordable water supply all around the world.

SOLUTIONS

Brackish water

The project has developed a new design of small scale stand-alone systems for rural areas powered by solar energy. The main target is off-grid applications in developing countries, where brackish water can be converted into safe drinking water. The first such system will be tested from May 2018 onwards in Somaliland, Africa. After that, seven more systems with improved designs will be built in different developing countries around the world.

The field test site of the solar powered ED brackish water desalination system in Somaliland

Seawater desalination

The latest innovations in ion exchange membranes allow for the use of electrodialysis to desalinate seawater. The REvivED water project will go one step further, applying a reverse electrodialysis (RED) unit as a pre-desalination step.

Compatibility with established technologies

Electrodialysis can work in combination with established desalination technologies: It can be added as a pre-desalination step to existing Reverse Osmosis systems, increasing their water recovery, meaning that more drinking water is produced from the same amount of seawater with lower energy consumption, and at affordable costs. The project will showcase this in a test system in Spain that is expected to be operational by the end of 2018.

COMMERCIALISATION

In parallel to the testing of all systems in various locations, there are ongoing business development activities, that will allow market entry within the next one to two years.