



Deliverable D8.3

Project website

Deliverable D8.3 Report



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 685579 (REvived water).

Deliverable responsible: AquaTT

Deliverable contributors: AquaTT, FUJIFILM, ABENGOA, REDstack, DEUKUM, PHAESUN, EDS, UNIPA, UGENT, WETSUS

Due date of deliverable: 30-09-2016

Actual submission date: 30-09-2016

Revision: V.1

Dissemination Level	
PU Public	X
PP Restricted to other programme participants (including the Commission Services)	
RE Restricted to a group specified by the consortium (including the Commission Services)	
CO Confidential, only for members of the consortium (including the Commission Services)	

All rights reserved

This document may not be copied, reproduced or modified in whole or in part for any purpose without the written permission from the REVIVED water Consortium. In addition to such written permission to copy, reproduce or modify this document in whole or part, an acknowledgement of the authors of the document and all applicable portions of the copyright must be clearly referenced.

Acknowledgement

The work described in this report has been funded by the European Commission under the Horizon 2020 Framework Programme.

This report has been produced as part of the project “*Low energy solutions for drinking water production by a REvival of ElectroDialysis systems*” or **REVIVED water** for short. The logos of the project partners are shown below. More information is available at www.revivedwater.eu



Table of Contents

EXECUTIVE SUMMARY	4
1 INTRODUCTION	4
2 RESULTS	5
2.1 WEBSITE STRUCTURE	5
2.1.1 HOME	5
2.1.2 ABOUT	6
2.1.3 CONSORTIUM	7
2.1.4 NEWS	8
2.1.5 EVENTS	8
2.1.6 PUBLICATIONS	9
2.1.7 RESULTS	11
2.1.8 INTRANET (PARTNERS ONLY)	11
3 CONCLUSIONS	11



Executive Summary

The REvived water website is the main tool for promoting the project and disseminating the project's objectives, work plan and results to a wide audience including all stakeholders and possible end-users. The REvived water website was developed following the [EU's best practice guidelines for project websites](#) and a main focus when setting up the website was to present it to the audience in a clear and user-friendly way. A comprehensive search function was included in the website structure and a separate workspace for project partners is accessible through a link on the website.

To ensure successful promotion of the project, to sustain the interest of the target audience and attract new users, the website's contents will be maintained, continuously updated and populated with new information throughout the project's lifetime. The website will remain active after the end of the project, for a period of 5 years, as a valuable public source of research information on the subject and for promoting the outputs of publicly funded research in the domain beyond the project's lifetime.

The REvived water website was launched on the 30th of September 2016 and is available on www.revivedwater.eu.

1 Introduction

The REvived water website will be a one-stop-access online portal that aims to facilitate communication and dissemination of the REvived water project and its results and ensure project and output awareness to the widest possible audience.

The REvived water public website is managed by AquaTT and will be updated on a regular basis, in particular the 'News' section, which will include announcements of all the events organised by the REvived water consortium as well as events where REvived water partners are going to be represented and any other events of interest to the partnership. The News section will also be regularly updated with news on the project as well as external news relevant to REvived water. The 'Publications' section will house all dissemination products and activities including open access scientific papers, articles, press releases and the project factsheet developed by the consortium during the project's lifetime, will be made available on the website.

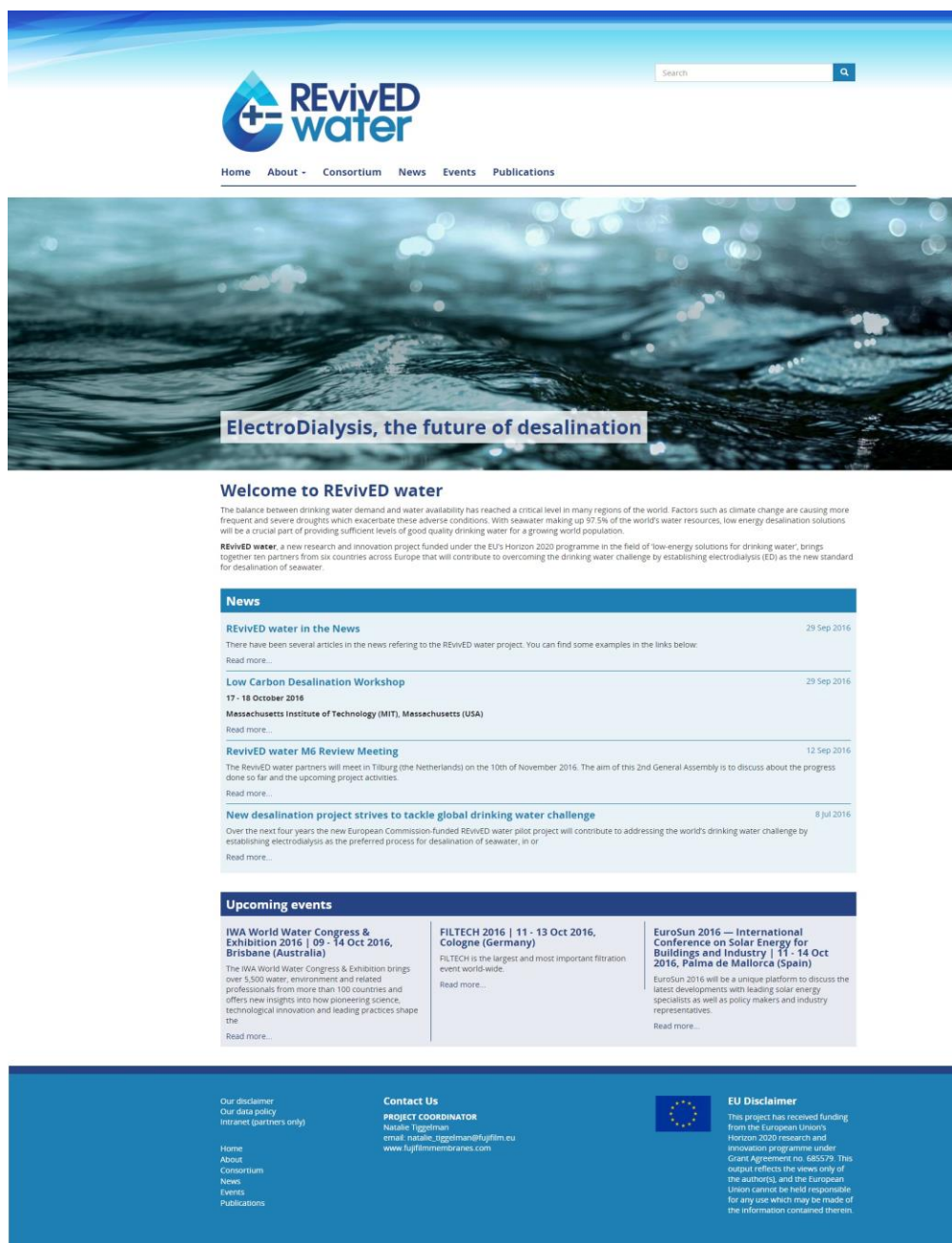
All project partners will be involved in providing new information and materials for the website and project partners will be requested to include a link to the new website on their own institution websites.

2 Results

2.1 Website Structure

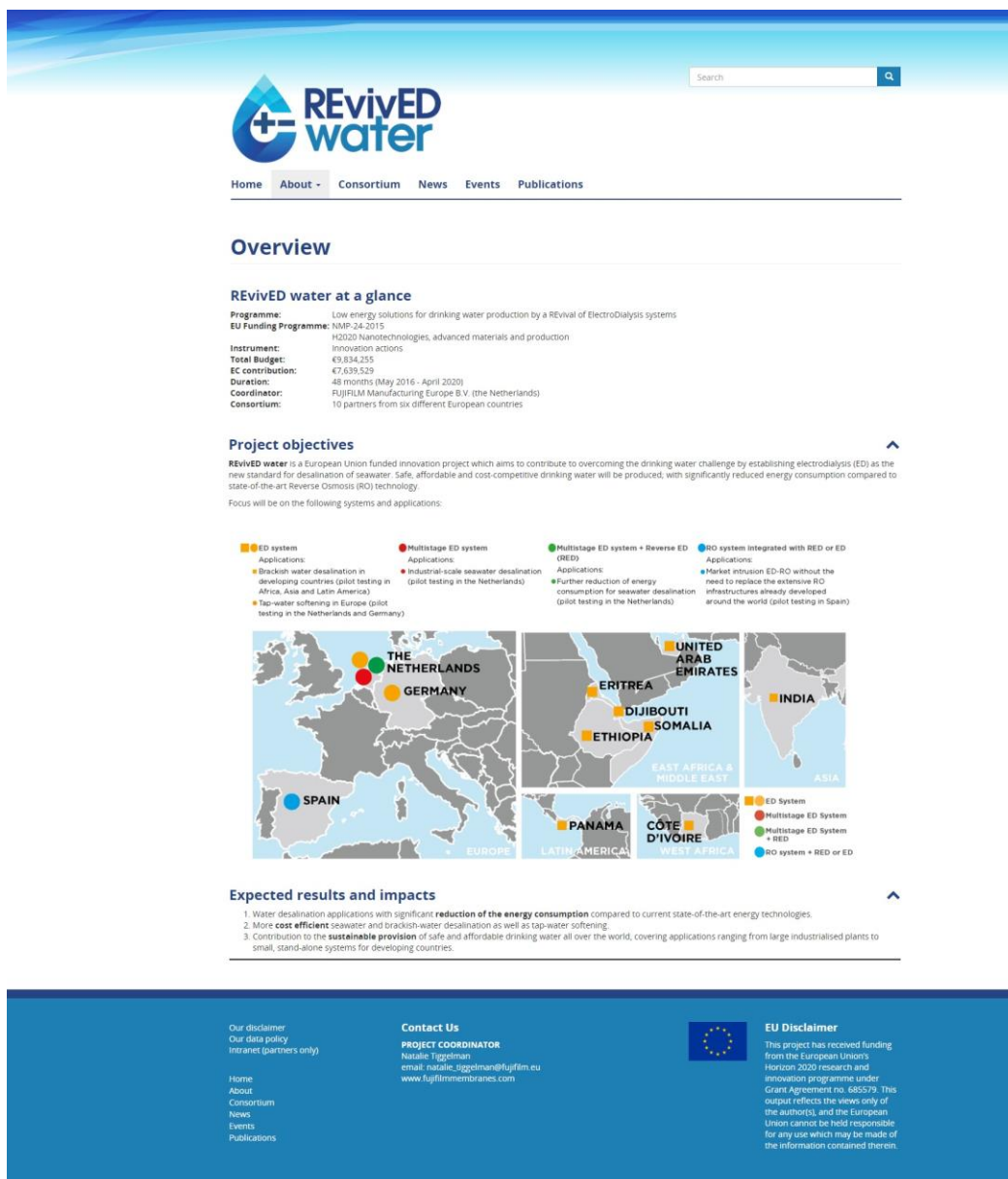
2.1.1 Home

Frontpage with image(s) and text.



2.1.2 About

- **Project overview:** This section provides an overview of the project's objectives and expected results.
- **Methodology:** This section gives a short introduction to the methodology used and design of the work packages.
- **Work Programme:** This section presents the main Work Packages in which the project's work is organised and structured.



The screenshot shows the Revived Water project website. The header features the Revived Water logo and a search bar. The navigation menu includes Home, About, Consortium, News, Events, and Publications. The main content area is titled 'Overview' and contains the following sections:

Revived water at a glance

Programme: Low energy solutions for drinking water production by a Revival of ElectroDialysis systems
EU Funding Programme: NMP-24-2015
Instrument: H2020 Nanotechnologies, advanced materials and production
Innovation actions:
Total Budget: €9,834,255
EC contribution: €7,639,529
Duration: 48 months (May 2016 – April 2020)
Coordinator: Fujifilm Manufacturing Europe B.V. (the Netherlands)
Consortium: 10 partners from six different European countries

Project objectives

Revived water is a European Union funded innovation project which aims to contribute to overcoming the drinking water challenge by establishing electroDialysis (ED) as the new standard for desalination of seawater. Safe, affordable and cost-competitive drinking water will be produced, with significantly reduced energy consumption compared to state-of-the-art Reverse Osmosis (RO) technology.

Focus will be on the following systems and applications:

- ED system**
Applications:
 • Brackish water desalination in developing countries (pilot testing in Africa, Asia and Latin America)
 • Tap-water softening in Europe (pilot testing in the Netherlands and Germany)
- Multistage ED system**
Applications:
 • Industrial-scale seawater desalination (pilot testing in the Netherlands)
- Multistage ED system + Reverse ED (RED)**
Applications:
 • Further reduction of energy consumption for seawater desalination (pilot testing in the Netherlands)
- RO system integrated with RED or ED**
Applications:
 • Market intrusion ED-RO without the need to replace the extensive RO infrastructures already developed around the world (pilot testing in Spain)

The website also features a world map showing pilot testing locations in Europe (Spain, Netherlands, Germany), East Africa & Middle East (Eritrea, Djibouti, Ethiopia), Asia (India), Latin America (Panama), and West Africa (Côte d'Ivoire).

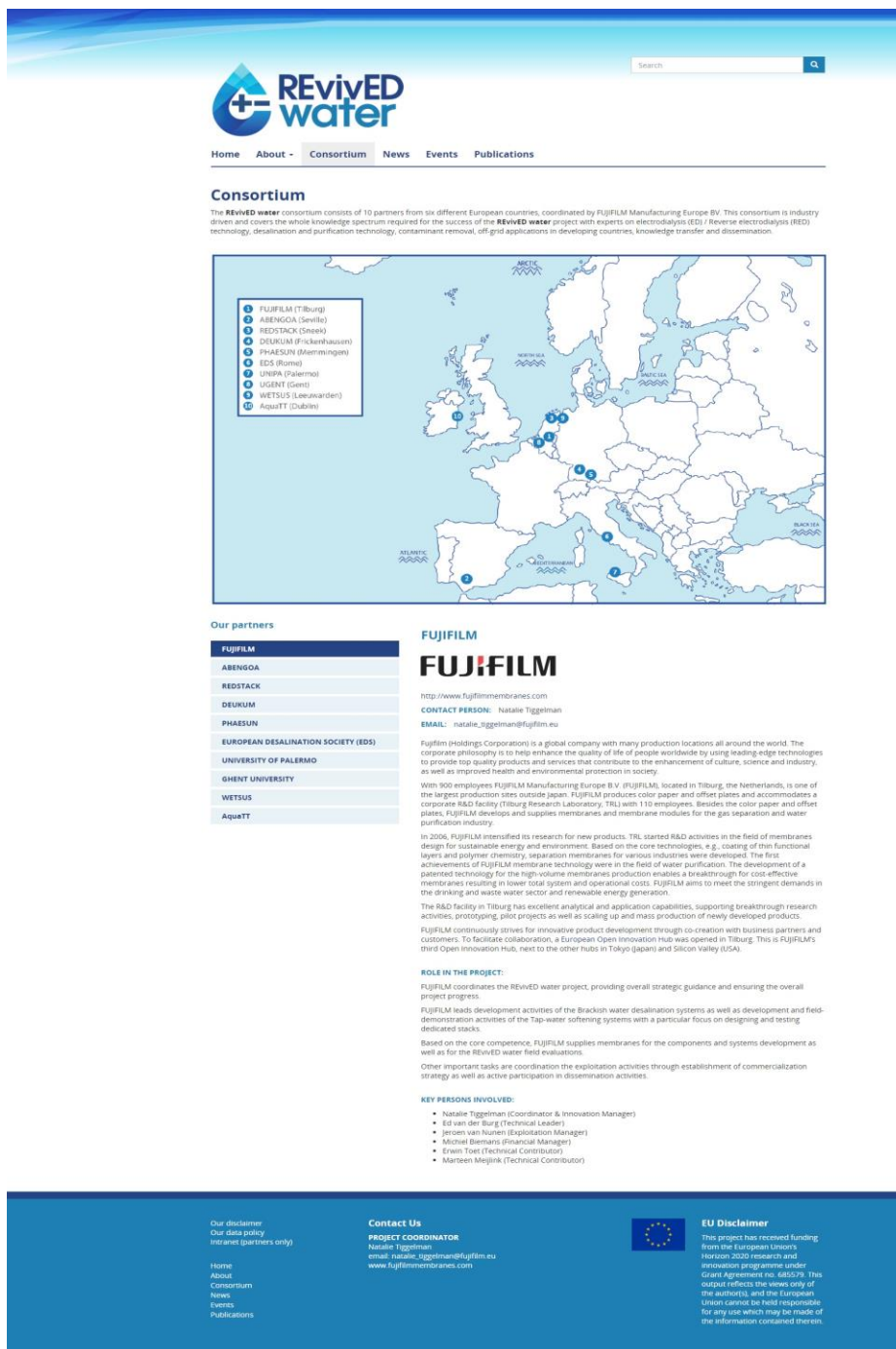
Expected results and impacts

1. Water desalination applications with significant **reduction of the energy consumption** compared to current state-of-the-art energy technologies.
2. More **cost efficient** seawater and brackish-water desalination as well as tap-water softening.
3. Contribution to the **sustainable provision** of safe and affordable drinking water all over the world, covering applications ranging from large industrialised plants to small, stand-alone systems for developing countries.

The footer contains a disclaimer, contact information for the project coordinator (Natalie Tiggeleman), and the EU disclaimer.

2.1.3 Consortium

- **Partners:** This section presents a map of the REvIVED water project consortium and gives a concise introduction to each partner participating in the project.



Consortium

The **REvIVED water** consortium consists of 10 partners from six different European countries, coordinated by Fujifilm Manufacturing Europe BV. This consortium is industry driven and covers the whole knowledge spectrum required for the success of the **REvIVED water** project with experts on electrodialysis (ED) / Reverse electrodialysis (RED) technology, desalination and purification technology, contaminant removal, off-grid applications in developing countries, knowledge transfer and dissemination.

Our partners

- FUJIFILM
- ABENGOA
- REDSTACK
- DEURUM
- PHASUN
- EDS
- UNIPA
- UGENT
- WETSUS
- AQUATT

FUJIFILM

CONTACT PERSON: natalie.tiggelman@fujifilm.eu

EMAIL: natalie.tiggelman@fujifilm.eu

Fujifilm (Holdings Corporation) is a global company with many production locations all around the world. The corporate philosophy is to help enhance the quality of life of people worldwide by using leading-edge technologies to provide top quality products and services that contribute to the enhancement of culture, science and industry, as well as improved health and environmental protection in society.

With 900 employees FUJIFILM Manufacturing Europe B.V. (FUJIFILM), located in Tilburg, the Netherlands, is one of the largest production sites outside Japan. FUJIFILM produces color paper and offset plates and accommodates a corporate R&D facility (Tilburg Research Laboratory, TRU) with 110 employees. Besides the color paper and offset plates, FUJIFILM develops and supplies membranes and membrane modules for the gas separation and water purification industry.

In 2006, FUJIFILM intensified its research for new products. TRU started R&D activities in the field of membranes design for sustainable energy and environment. Based on the core technologies, e.g., coating of thin functional layers and polymer chemistry, separation membranes for various industries were developed. The first achievements of FUJIFILM membrane technology were in the field of water purification. The development of a patented technology for the high-volume membranes production enables a breakthrough for cost-effective membranes resulting in lower total system and operational costs. FUJIFILM aims to meet the stringent demands in the drinking and waste water sector and renewable energy generation.

The R&D facility in Tilburg has excellent analytical and application capabilities, supporting breakthrough research activities, prototyping, pilot projects as well as scaling up and mass production of newly developed products.

FUJIFILM continuously strives for innovative product development through co-creation with business partners and customers. To facilitate collaboration, a European Open Innovation Hub was opened in Tilburg. This is FUJIFILM's third Open Innovation Hub, next to the other hubs in Tokyo (Japan) and Silicon Valley (USA).

ROLE IN THE PROJECT:

FUJIFILM coordinates the REvIVED water project, providing overall strategic guidance and ensuring the overall project progress.

FUJIFILM leads development activities of the Brackish water desalination systems as well as development and field demonstration activities of the Tap-water softening systems with a particular focus on designing and testing dedicated stacks.

Based on the core competence, FUJIFILM supplies membranes for the components and systems development as well as for the REvIVED water field evaluations.

Other important tasks are coordination the exploitation activities through establishment of commercialization strategy as well as active participation in dissemination activities.

KEY PERSONS INVOLVED:

- Natalie Tiggelman (Coordinator & Innovation Manager)
- Ed van der Burg (Technical Leader)
- Jeroen van Nuenen (Exploitation Manager)
- Michiel Biersma (Financial Manager)
- Erwin Toet (Technical Contributor)
- Marleen Meijink (Technical Contributor)

Contact Us

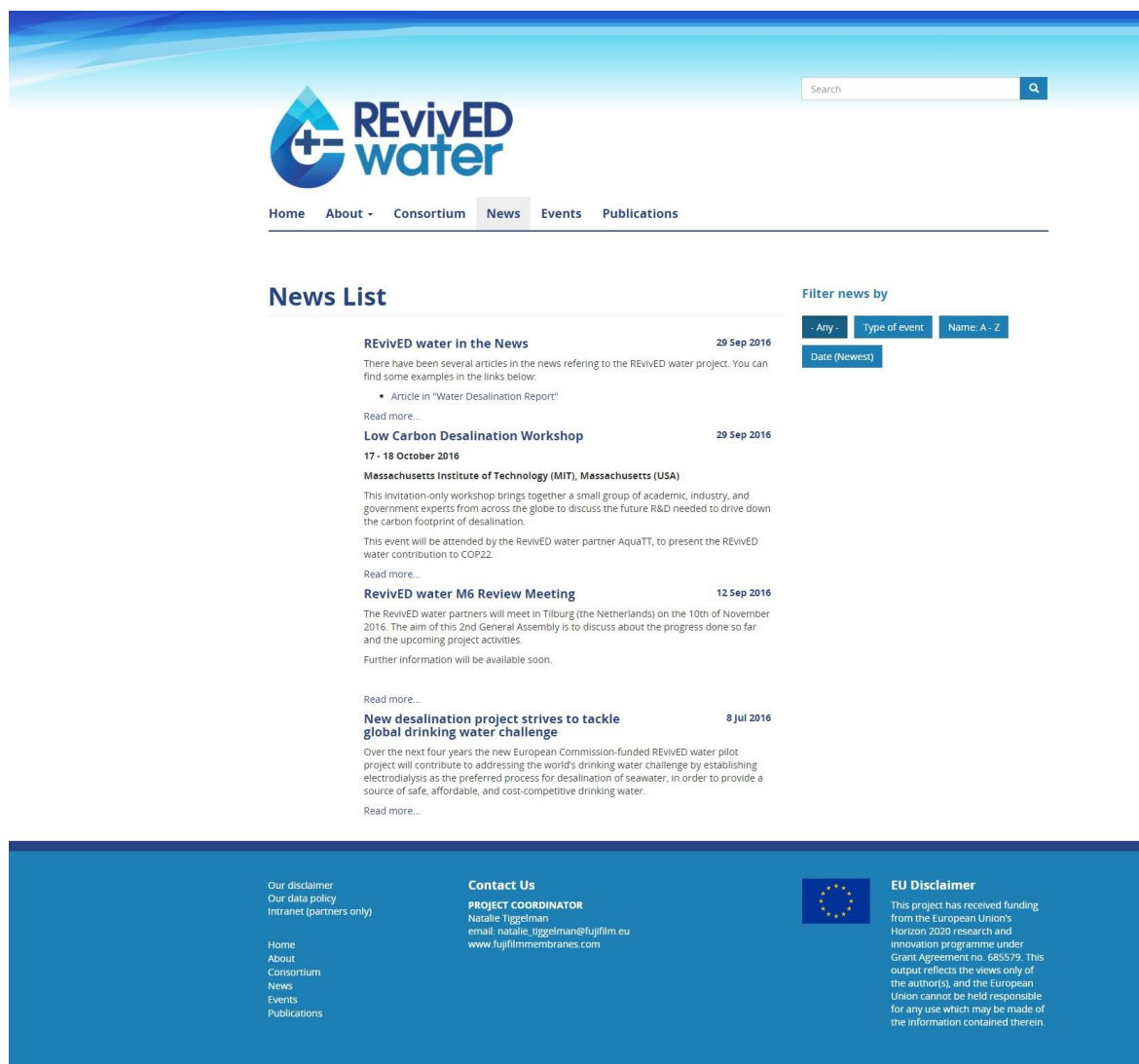
PROJECT COORDINATOR
Natalie Tiggelman
email: natalie.tiggelman@fujifilm.eu
www.fujifilm-europe.com

EU Disclaimer

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 685579. This output reflects the views only of the author(s), and the European Union cannot be held responsible for any use which may be made of the information contained therein.

2.1.4 News

News relevant to the project will continuously be added to this section.



The screenshot shows the 'News' section of the Revived Water project website. The header features the Revived Water logo and a navigation menu with links: Home, About, Consortium, News (active), Events, and Publications. A search bar is located in the top right corner. The main content area is titled 'News List' and includes a 'Filter news by' section with buttons for '- Any -', 'Type of event', 'Name: A - Z', and 'Date (Newest)'. The news list contains four items:

- REVIVED water in the News** (29 Sep 2016): A summary of news articles related to the project, with a link to 'Article in "Water Desalination Report"'. A 'Read more...' link is provided.
- Low Carbon Desalination Workshop** (29 Sep 2016): A workshop at MIT, Massachusetts (USA) on 17-18 October 2016. It brings together experts to discuss future R&D for carbon footprint reduction. The event is attended by AquaTT, a Revived Water partner. A 'Read more...' link is provided.
- Revived water M6 Review Meeting** (12 Sep 2016): A meeting of partners in Tilburg, Netherlands, on 10th November 2016, to discuss progress and upcoming activities. Further information will be available soon. A 'Read more...' link is provided.
- New desalination project strives to tackle global drinking water challenge** (8 Jul 2016): A pilot project funded by the European Commission aims to address the global drinking water challenge using electrodesalination. It is designed to be safe, affordable, and cost-competitive. A 'Read more...' link is provided.

The footer contains three columns of information:

- Our disclaimer**: Our data policy, Intranet (partners only), and a list of navigation links (Home, About, Consortium, News, Events, Publications).
- Contact Us**: Project Coordinator Natalie Tiggelman, email: natalie.tiggelman@fujifilm.eu, website: www.fujifilmmembranes.com.
- EU Disclaimer**: A statement that the project is funded by the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 685579, and that the output reflects the views of the author(s) and the European Union cannot be held responsible for any use.

2.1.5 Events

This section features information on conferences, meetings and events organised by the REVIVED water project or non-project events which are relevant to the project consortium and its community.



[Home](#)
[About](#)
[Consortium](#)
[News](#)
[Events](#)
[Publications](#)

Featured event

Low Carbon Desalination Workshop | 17 - 18 Oct 2016, Massachusetts Institute of Technology (MIT), Massachusetts (USA)

This invitation-only workshop brings together a small group of academic, industry, and government experts from across the globe to discuss the future R&D needed to drive down the carbon footprint of desalination.

IWA World Water Congress & Exhibition 2016 , Brisbane (Australia)

09 - 14 Oct 2016

The IWA World Water Congress & Exhibition brings over 5,500 water, environment and related professionals from more than 100 countries and offers new insights into how pioneering science, technological innovation and leading practices shape the major transformation in water management that is underway.

For further information, please visit the congress' website here.

[Read more...](#)

FILTECH 2016 , Cologne (Germany)

11 - 13 Oct 2016

FILTECH is the largest and most important filtration event world-wide.

This Exhibition is a must for all those concerned with designing, improving, purchasing, selling or researching filtration and separation equipment and services. FILTECH is the international platform and solution provider for all industries covering every market segment.

Further information available at <http://www.fitech.de/>

[Read more...](#)

EuroSun 2016 — International Conference on Solar Energy for Buildings and Industry , Palma de Mallorca (Spain)

11 - 14 Oct 2016

EuroSun 2016 will be a unique platform to discuss the latest developments with leading solar energy specialists as well as policy makers and industry representatives. The congress will host topic sessions, keynote speakers, plenary sessions and open discussion forums, as well as social events where you will have the opportunity to network, to meet old friends and to make new contacts.

[Read more...](#)

Low Carbon Desalination Workshop , Massachusetts Institute of Technology (MIT), Massachusetts (USA)

17 - 18 Oct 2016

This invitation-only workshop brings together a small group of academic, industry, and government experts from across the globe to discuss the future R&D needed to drive down the carbon footprint of desalination.

[Read more...](#)

[List View](#) [Calendar View](#)

Filter events by

[Any](#)
[Type of event](#)
[Name: A - Z](#)

[Date \(Newest\)](#)

[1](#) [2](#) [3](#) [Next >](#) [Last >](#)

Our disclaimer

Our data policy

Intranet (partners only)

Home

About

Consortium

News

Events

Publications

Contact Us

PROJECT COORDINATOR

Natalie Tiggelman

email: natalie.tiggelman@fujifilm.eu

www.fujifilmmembranes.com



EU Disclaimer

This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 685579. This output reflects the views only of the author(s), and the European Union cannot be held responsible for any use which may be made of the information contained therein.

2.1.6 Publications

At the date of submission of this deliverable this section contains two subsections namely “Poster” and “Press releases” and each currently contains one element. The Poster section displays the project poster used to promote the REvIVED water project at the conference ‘Desalination for the Environment: Clean Water and Energy, which took place on 22-26 May 2016 in Rome (Italy). The press releases section contains the first press release published in July 2016. Additional sections

will be added once more material becomes available, such as factsheets, posters and promotional materials developed by the project consortium.



The screenshot shows the Revived Water project website. The header includes the project logo, a search bar, and navigation links: Home, About, Consortium, News, Events, and Publications. The main content area is titled 'Publications' and features a poster titled 'LOW ENERGY SOLUTIONS FOR DRINKING WATER PRODUCTION BY A REVIVAL OF ELECTRODIALYSIS SYSTEMS'. The poster includes an introduction, a description of the Revived Water solution, a methodology section, and a list of partners. The poster also features a map of Europe and a list of countries where the solution is being tested: Spain, Germany, Netherlands, United Kingdom, India, Ethiopia, Somalia, and Kenya.

INTRODUCTION

The balance between drinking water demand and water availability has reached a critical level in many regions of the world. Factors such as climate change are causing more frequent and severe droughts which exacerbate these adverse conditions. With seawater making up 97.5% of the world's water resources, low energy desalination solutions will be a crucial part of providing sufficient levels of good quality drinking water for a growing world population.

THE REVIVED WATER SOLUTION

Revived Water is a European Commission funded project which aims to contribute to overcoming the drinking water challenge by establishing demonstration sites as the new standard for desalination of seawater. Safe, affordable and cost-competitive drinking water will be produced, with significantly reduced energy consumption compared to state-of-the-art Reverse Osmosis (RO) technology.

FOCUS WILL BE ON THE FOLLOWING COUNTRIES AND APPLICATIONS:

- Spain**
 - Applications:
 - Desalination water distribution in developing countries (salt testing in Africa, Asia and Latin America)
 - Tap water softening in Europe (salt testing in the Netherlands and Germany)
- Netherlands**
 - Applications:
 - Industrial water desalination (salt testing in the Netherlands)
- United Kingdom**
 - Applications:
 - Further reduction of energy consumption for seawater desalination (salt testing in the Netherlands)
- India**
 - Applications:
 - Desalination for RO-RO without the need to replace the expensive RO infrastructure energy developed around the world (salt testing in Spain)

METHODOLOGY

- Development of ED system based on RO-RO and ED components (membranes, electrodes, etc.)
- Assessment of pilot systems in a real environment to demonstrate significant energy consumption, water quality and cost.
- Test of the economic viability of the proposed ED desalination systems, their business perspectives and the market strategy to follow.

EXPECTED RESULTS

- Water desalination applications with significant reduction of the energy consumption compared to current state-of-the-art energy technologies, where low effluent salinity and brackish water desalination as well as tap water softening.
- Contribution to the sustainable provision of safe and affordable drinking water all over the world, covering applications ranging from large industrial plants to small, stand-alone systems for developing countries.

CONTACT US

Revived Water Coordinator
Dr. Natalie Tiggelman
nat@revivedwater.eu
nat@revivedwater.eu

PARTNERS

FUJIFILM, ABBOTT, AQUAT, Phasex, RED, etc.

Press releases

Press release 1 - New desalination project strives to tackle global drinking water challenge

Our disclaimer
Our data policy
Intranet (partners only)

Home
About
Consortium
News
Events
Publications

Contact Us
PROJECT COORDINATOR
Natalie Tiggelman
email: nat@revivedwater.eu
www.fujifilmmembranes.com



EU Disclaimer
This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement no. 685579. This output reflects the views only of the author(s), and the European Union cannot be held responsible for any use which may be made of the information contained therein.

2.1.7 Results

A new section dedicated to the projects results will be created in the menu bar as soon as they become available.

2.1.8 Intranet (partners only)

At the bottom of each page, partners can access the project's collaborative platform (managed by FUJIFILM and AquaTT) by clicking on "Intranet (partners only)".

3 Conclusions

The REvived water website was developed following the [EU's best practice guidelines for project websites](#) and is available under the link www.revivedwater.eu.

The project website aims to be informative and visually attractive and has a user-friendly navigation system. The website plays an important role in the communication of the project since it is a resource (a) to promote the project, its objectives and its partnership and (b) to disseminate information on the progress and results to interested parties. The website will also be a depository of public deliverables, factsheets and other electronic resources, which will be developed by the project consortium throughout the project's lifetime. Maintenance and regular update of the website and its contents will be managed by AquaTT. The continuous updates will include the following sections: 'Events', 'News' and 'Publications'.