



Nitrogen Extraction from Water By an Innovative Electrochemical System

Deliverable for action D5

AFTER-LIFE Plan, including exploitation plan

Dec 2021



The LIFE-NEWBIES project has received funding from the LIFE programme of the European Union

Deliverable description as formulated in the GA

After end of the LIFE-NEWBIES project, dissemination and communication will be continued through:

- Communication of project results at technical exhibitions (e.g. Aquatech Amsterdam), conferences (e.g. from IWA) and online platforms
- Actively approaching industrial associations (e.g. ONNS/STOWA, Nutrient Platform, International Fertilizer Industry Association)
- Deposition of a registered trademark
- Drafting of detailed technical documentation for the market ready prototype

Part of the After-LIFE plan is the exploitation plan. The exploitation plan will describe the market implementation roadmap. The first step in market implementation is a large scale demonstration project, with a widely visible end-user. For example in the case of urine treatment, this could be a restaurant chain (e.g. McDonalds). In the case of municipal water treatment, this could be a large public water authority. Emphasis will be on Europe wide visibility. The large scale demonstration is planned for the first 2 years after the end of the LIFE project. These activities will be financed from their own resources, R&D tax credit ('WBSO') and potential subsidies. The 1-12020 SME instrument will be investigated to finance the large scale demonstration project.

Implementation

Communication of project results

Now that the NEWBIES project has officially ended, communication about its results and knowledge gained continues unabatedly. Pure Water Group has presented the project at the latest Aquatech international conference (2022), the website is kept online, and dissemination in magazines is also still going (latest publication: <https://industrielinqs.nl/> still coming up at the moment of writing).

Furthermore, Newbies project results will be communicated via activities in the follow-up project called Circulaire-N (see appendix 1), publications, conferences, STOWA report.

Actively approaching industrial associations

Partly fuelled by the Aquatech conference, but also due to word-of-mouth amongst our network, we continue to have conversations and meetings with companies that are interested in the developed technology. A most recent overview of companies we've been in contact with:

- Royal Cosun
- DSM
- Yara
- DeSaH
- STOWA
- WBL
- Nijhuis
- Paques
- Colsen
- Green Create Wijster

- S.E.S.A. Italy
- Protix

Moreover, a presentation of the project has been given at the KIWA Industry Hub. With some of the interested parties, small scale follow-up lab tests are being conducted to test feasibility of the process for their application. Regarding the treatment of digestate from WWTP digesters, a full fledged follow up project has been designed and consolidated with a consortium existing of TU Delft, Waterbedrijf Limburg (Venlo, The Netherlands), Waternet (Amsterdam), Bluetec B.V. and I3 B.V. See also exploitation plan. Part of this new project will also be to disseminate the results in an official STOWA report (<https://www.stowa.nl/publicaties>).

Deposition of a registered trademark

At this point, there is no need for deposition of a registered trademark. The key components (stacks) are branded by our daughter company REDstack B.V. The process, once it has reached more advanced and robust level, will still have to be given a suitable name.

Drafting of detailed technical documentation

This is continuously being adjusted according to the newest insights.

Exploitation plan

A follow-up project has been designed and agreed to by a consortium including large-scale launching customers. The project proposal underlying this project contains an exploitation plan, amongst other things. It can be found in Appendix I.