



Testimonial Greenskill Environmental Technology

BASIC INFORMATION ABOUT YOUR COMPANY

Greenskill Environmental Technology Ltd (GEL) is a microalgal biotechnology company with more than 35 years' experience in the field. GEL have pioneered the development of sustainable processes for:

- Carbon capture & utilisation
- Carbon negative, zero emission sewage treatment.

We have specialised photobioreactor (PBR) designs that can be deployed at megalitre scale for resource recovery from GHG emissions and wastewater.

BRIEF INFORMATION ABOUT THE ACTIVITIES CONDUCTED WITHIN WTN

GEL deployed a PBR process at Bo'ness in collaboration with Glasgow Caledonian University (INTERREG: PHOS4YOU) to demonstrate phosphate (PO_4) recovery from sewage. PO_4 is a dwindling finite resource and is not currently captured or recovered in water treatment works. Indeed, PO_4 discharge into aquatic environments is problematic leading to toxic algal blooms.

In the WTN Innovation Challenge project, the efficacy and economics of the process were investigated, and GEL validated that PO_4 can be recovered from primary settled sewage in a single stage, whilst concomitantly removing Biological Oxygen Demand (BOD) and nitrogen compounds (TN).

Performance: HRT < 24 hours; PO_4 < 0.2mg/l; TN < 1mg/l; Negative CO_2 emissions; Zero GHG (N_2O , volatiles etc) emissions.

WHAT IS THE ADDED VALUE OF WTN AND WHY WOULD YOU RECOMMEND WTN TO OTHER SMES?

Support from the Water Test Network (WTN), Scottish Water Horizons Ltd (SWH) and the James Hutton Institute was invaluable and has enabled GEL to elevate our process from TRL 6 to 7. Further WTN trials are scheduled to validate the process's capability to remove pharmaceutical residues and other emerging hazardous compound in sewage.



THE EUROPEAN TEST FACILITY NETWORK FOR WATER INNOVATION

The facilities and day to day hands on support made available by SWH at Bo'ness have been second to none, and the plug and play capability of the infrastructure has made it effortless for us to focus on optimising the process and maximising the time available.

Improvements? None - keep up the good work.

LINK TO YOUR WEBSITE AND SOCIAL MEDIA ACCOUNTS

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Email address: info@greenskill.co.uk

Twitter: @Greenskill_

LinkedIn: <https://www.linkedin.com/company/greenskill-environmental-ltd>

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