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# Breakthrough Water and Wastewater Technology Secures £4 Million Funding

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## Introduction

Innovative water and wastewater treatment company Arvia™ Technology has secured £4 million in its latest round of investment funding. The company is now embarking on a series of demonstration installations in industrial treatment facilities.

Arvia has developed its own graphene-based proprietary material - Nyex™ - which removes organics, emerging contaminants and micro-pollutants from wastewater and is regenerated in-situ in the novel organics destruction cell (ODC) process. The technology was spun-out of Manchester University's School of Chemical Engineering.

Arvia's modular treatment units can remove and oxidise low, trace toxic and problematic pollutants. These include metaldehyde, which is used by farmers in slug pest control and endocrine-disrupting and problem chemicals used in the pharmaceutical industry and personal care products, including triclosan.

Arvia Chief Executive Mike Lodge said, "This is a very exciting time for Arvia Technology. We now have in place the secure financial backing required to strengthen our team and launch Arvia's game-changing products into the water sector."

"We have numerous test units to deploy into the market and we are looking for early adopters to collaborate with Arvia in applying this technology, which is changing the boundaries of how water is treated."

Arvia Technology's portable treatment units are modular and flexible. They can be configured with the appropriate number of ODCs based on organics concentrations in a given waste stream. Units can be placed in series to manage a range of flow volumes from a few cubic metres per day to over 2,000 cubic metres per hour.

Organics can be treated at source and Arvia is now identifying companies in the industrial, pharmaceutical, herbicide and chemical sectors with problematic wastes. The field trial units can treat concentrations as low as 1 part per billion (ppb) organics and flow of up to 2 cubic meters per hour ($m^3$/h).