

RISING COSTS DRIVE DEMAND FOR WATER RECOVERY SYSTEMS



In today's manufacturing landscape, water supply limitations, an increase in water charges, and stringent environmental regulations are pressing concerns for industries worldwide. These challenges are driving the adoption of sustainable practices, including exploration into new, more environmentally friendly wastewater treatment solutions.

With water shortage fears growing across the UK, companies are re-examining their production processes with a view to reduce the waste of this valuable global resource.



“Without a rapid, effective treatment option, liquid effluent can become a costly issue to tackle,” says Jamie George, Projects & Business Development Director at Axiom Process.

While effluent composition varies with the industry, it is usually composed of microplastics, fats, oils, grease and many other unsavoury particulates. Membrane filtration is able to selectively separate these suspended solids, leaving behind high-quality water that is immediately available for reuse in upstream or downstream processes.

Eliminating the need for damaging chemical flocculants, membrane filtration reduces the risk of damage to our rivers and waterways and could potentially reveal the presence of valuable materials that would otherwise be destroyed using alternative methods.

Jamie George states “Initial pilot trials on the feed material are carried out, either at our Swansea test facility, or at the manufacturer's premises. These are instrumental in how we identify and adjust process parameters for optimal filtration results.”

Able to provide a reliable, cost-effective solution to reducing discharge volumes with the potential to recovering up to 90% of wastewater, membrane filtration is a tried-and-true solution for water recovery needs. Plants can be constructed in a variety of set-ups, from containerised units to small, compact systems that can be moved to other areas as needed and can also be designed with future expansion in mind.

Axiom’s extensive expertise allows for the design and manufacture of crossflow membrane filtration solutions tailored for diverse applications, all while adhering to international regulations and maintaining the highest of hygienic standards.