

The full potential of wastewater

BIOWATER TECHNOLOGY AS
Location: Tonsberg, Norway
www.biowatertechnology.com

Water pollution is a global issue, and that is why a small Norwegian company comprising renowned experts in its field has delivered more than 80 treatment projects in dozens of countries across almost every continent on the planet.

Biowater Technology AS works at the cutting edge of biological wastewater treatment, providing smart energy-efficient and environmentally friendly solutions to the worldwide problem of sewage and industrial wastewater. “The vast majority of wastewater is treated unsustainably in both the processes used, and in the environmental impact of the effluent discharged,” says the company’s CEO Ilya Savva. “We want to ensure that both clean water and the environment are absolutely protected by implementation of best available technologies.”

Biological wastewater treatment uses naturally occurring micro-organisms such as bacteria to clean polluted water. Biowater works with local municipalities and industries globally to beat targets



for wastewater treatment. “These sectors are increasingly motivated to reduce their discharge and save energy, and are also realising the energy potential of wastewater,” explains Savva. “We see the potential of what can be achieved and offer numerous ways to help customers.”

One recent wastewater treatment plant at a food and beverage factory in Grimstad in Norway is an example of how Biowater operates. Using patented technology, the plant is sustainable and produces minimal sludge, treated wastewater with great potential for reuse, and renewable energy in the form of methane. Around 75 per cent of the organic waste is turned directly into methane gas, an energy source generated at the point of use which is far more environmentally sustainable than extracted, refined and transported fossil fuels. This combination of a renewable energy-generation anaerobic stage and aerated biofilm treatment in a single reactor is unique to Biowater.

“Our patented techniques are continuous enhancements of proven technologies, only achievable through our experience of working in the industry for so long,” explains Savva. “We create more energy-efficient versions of the existing standard processes – more sustainable in terms of energy, waste production and footprint. What makes Biowater stand out is that we understand

there are different biological treatment techniques for a full range of wastewaters by sector and by industry, and our team can tailor treatment solutions for each individual customer and their needs. We design the best process and biological treatment solution for each and every client , and we are proud that our patented technologies are increasingly being selected.”

For this to work effectively, it is essential to build strong partnerships. “We want to understand our partners’ needs and give them positive options so we deliver the best solution together,” says Savva. “And we want to support them so they can really understand our technology, its strengths and how to use it most effectively.”

Biowater processes are now recognised throughout the world. Savva has worked in the civil engineering industry for his entire career and recognises wastewater treatment being taken more seriously, but, in his view, not seriously enough. “We are actively working towards solving a global crisis in terms of preserving natural resources and saving the environment,” he says. “And we do this by using our knowledge and experience to enable people to find solutions. At Biowater we all believe in our mission – we believe in it passionately. This is a very exciting and fast-changing industry, one that is driven by a very real need.”