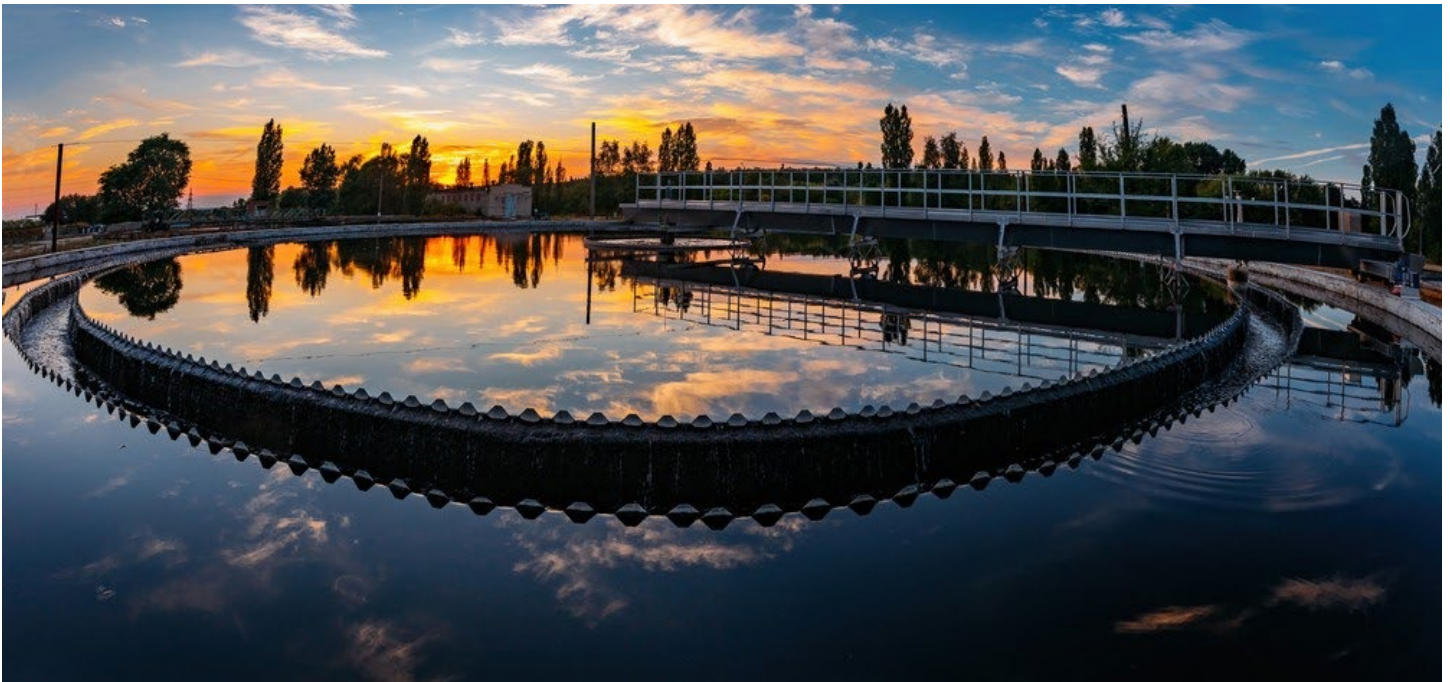


## FOR IMMEDIATE RELEASE

### 5 Significant Benefits of Custom Biological Wastewater Treatment

By Darrell Liski

**Pressure is rising, and avoiding new harm is only the beginning. In industries with direct environmental impact — such as wastewater treatment (WWT) — a general call to action is spurring exploration in technologies, processes, and strategies for safeguarding the environment to incorporate environmental stewardship.** Innovative companies are looking to reverse the detrimental effects of traditional, unsustainable industrial practices.



Wastewater is an industry primed for environmentally conscious transformation. Water shortages are on the rise — as are the costs of wastewater treatment and processing. It's time for ecologically sound innovation. Enter custom biological wastewater treatment. Naturally derived microbiology allows WWT facilities to pursue environmentally responsible treatment processes.

These processes are paving the way for exceptional benefits not only for the environment, but for wastewater treatment plant (WWTP) operators and the municipalities they serve.

### **Waste and energy reduction**

The cost of mechanical aeration and other forms of aerobic treatment creep higher with each passing year. Microbiology is on the front lines of reducing waste and energy within the WWT process. A reduction in influent biochemical oxygen demand (BOD) loads and the presence of naturally derived soil microbiology reduces energy costs in a substantial way. Aeration energy savings have rippling effects in the efficiency of WWT plants as well as their environmental stewardship.



### **Environmental Conservation**

Wastewater is rife with hazardous materials. This can include suspended and dissolved organic and inorganic substances such as carbohydrates, fats, soaps, synthetic detergents, and a variety of other chemicals, including pharmaceuticals. Spillover, inefficient treatment, or diversion of filtered materials can spawn a whole host of environmental problems — all results of WWT inefficiencies. Instead of adding more chemicals and substances, custom microbiological solutions reduce wastewater contaminants, instead of merely shifting their impact

to other areas of environmental concern.

### **Sludge Reduction**

Sludge provides a unique challenge for WWTPs in part because fats, oils, and greases (FOG) require more invasive means of breakdown. Tenacious sludge buildups take a toll on mechanical aeration equipment and can result in breakdowns, inefficiencies, or increased service demands. Microbiological solutions have the power to degrade FOG while mitigating the combustible gasses that accompany it. Anaerobic digestion by facultative soil microbes produces fewer biosolids, and this reduction in organic load speeds the WWT process and increases the total efficiency of plant operations.



### **Surcharge and cost reductions**

Municipal standards for water quality are a growing priority — especially as the country's water infrastructure comes under increased scrutiny. WWTP operators who meet increasingly stringent standards with microbiological solutions that deliver optimal effluent treatment with guaranteed results exceeding NPDES permit regulations and other government guidelines will avoid fines and surcharges for water pollution. One option available that meets these criteria is the EBS-Di from EnBiorganic Technologies.

### **Improved Operational Efficiency**

Above all, a facultative water treatment process brings a level of efficiency difficult for traditional aerobic systems to compete with because it requires little energy for aeration. Specialized microbiological agents that know their food source and process it efficiently are better equipped to reduce operational costs, environmental impact, complications caused by FOG, and more.

Above all, it's customizable to meet the needs of wastewater contamination profiles. Adapted facultative microbiology performs in all existing WWT processes, dramatically improving performance while reducing energy use.

**Demand For Smarter Solutions To Wastewater Treatment**

Water has always been a precious commodity. Now, it's subject to increasing scarcity, driving demand for cleaner water and more efficiency in WWT.

Emergen Research predicts the market for biological wastewater treatment will reach \$12.48 billion by 2027 as WWTP operators look for more efficient, sustainable ways to treat the world's most important resource. Producing higher standards of water and effluent quality with efficiency, fewer waste byproducts, and environmental responsibility efficiently is a vital contribution to rising demand for microbiological WWT solutions. Using more chemicals — and/or ever-increasing amounts of energy — to produce cleaner water with fewer biosolids is not an environmentally friendly solution.

It's vital for WWT facilities to explore and implement organic solutions. Replace inefficient traditional systems with a microbiological solution to yield positive results for the environment, lower costs, and increase efficiency.

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