



## Water & Environmental Technologies

# BioVentris®

### Municipal Wastewater

#### More biogas, less sludge, improved digester operations

Maximize biogas production, sludge reduction and overall operations of anaerobic sludge digesters.

#### Boost Anaerobic Digestion with Biological Solutions from EnviroZyme®

Maximize biogas production, sludge reduction and overall operations of anaerobic sludge digesters. Anaerobic digestion is at the heart of municipal sewage plants. The biological process relies on bacteria without oxygen to convert organic matter into more stable substances. It is generally considered one of the most effective ways to reduce the weight and volume of sludge, while producing valuable biogas in the process.

Suboptimal digester performance can have a severe effect on both plant operations and economics. Poor removal of solids significantly drives up downstream cost of disposal, and limits energy production.

#### BioVentris® : A Unique Biological Solution to Boost Your Anaerobic Sludge Digester

What if there was a way to unlock the full potential of your digester, maximizing energy recovery and minimizing both sludge production and downstream disposal cost? BioVentris® can make this possible.

#### The Benefits of Using BioVentris

##### Lower operating costs

- Reduces flocculant consumption (up to 10%)
- Reduces sludge disposal costs (up to 10%)

##### Improved plant efficiency

- Increases biogas production (up to 15%)

##### Simplified operations

- Towards net-zero emissions
- Ease of use

#### A Non-CAPEX, Plug-and-Play with Attractive Value Propositions

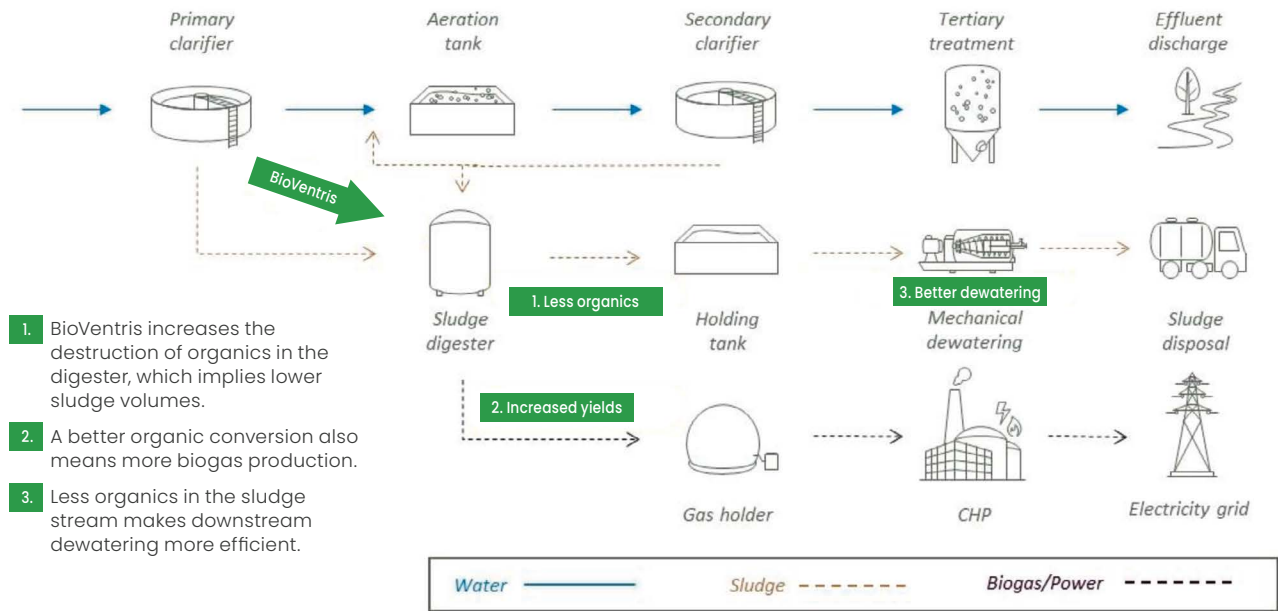
The BioVentris solution is a liquid enzymatic solution that needs to be applied into the sludge stream, as close as possible to the inlet of the digester. It can be dosed manually or with dosing pumps. Once the product is properly mixed with the digester material, the improved hydrolysis will allow:

- An increase of biogas production
- A reduction of the amount of solids entering the dewatering unit
- A better dewatering performance of the sludge, leading to a lower polymer demand

# ENVIROZYME®

 [envirozyme.com](https://envirozyme.com)

# Typical Flow Diagram for a Municipal Sewage Treatment Plant



1. BioVentris increases the destruction of organics in the digester, which implies lower sludge volumes.
2. A better organic conversion also means more biogas production.
3. Less organics in the sludge stream makes downstream dewatering more efficient.

Fig. 1 BioVentris application and value drivers

## Micro Solutions. Major Impact.

Clean water is essential for healthy people and a healthy planet. EnviroZyme’s microbial solutions use bioaugmentation to naturally and efficiently treat water before it’s returned back into the system. Our team of experts have come together to create environmentally-focused microbial solutions and technical services to support water resource recovery facilities in their global quest to provide clean water.

## Billions of microorganisms at your service.

SKU #	PRODUCT	BENEFITS	SIZE
Anaerobic Digestion			
WTL943FM2	BioVentris C	BioVentris improves organic conversion efficiency in the digester, resulting in more gas production and less sludge to dispose of after dewatering.	25 KG
WTL944FM2	BioVentris P		25 KG

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