

**BITECO™**

**BT-10X8 enzymatic product for  
intensification of biogas production**

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# BT-10X8

## Brief introduction

- BT-10X8 product is a compound of microorganism bacterium agent containing cellulolytic bacteria, half-cellulolytic bacteria, amylolytic bacteria decomposing bacteria, protein decomposing bacteria, acid-producing bacteria, and methanogenic bacteria. It significantly accelerates decomposition of the organic materials, promote biogas growth, and increase gasification and biogas production.
- BT-10X8 maintain stability of the biogas production and increases the rate as well as CH<sub>4</sub> concentration. With a high fermentation speed, it reduces hetero gas generation. The average increase in biogas production makes 20-30%. BT-10X8 has a demonstrable effect to the start of the new digesters and the recovery of biogas digesters after refueling, to achieve a quick start.

# BT-10X8

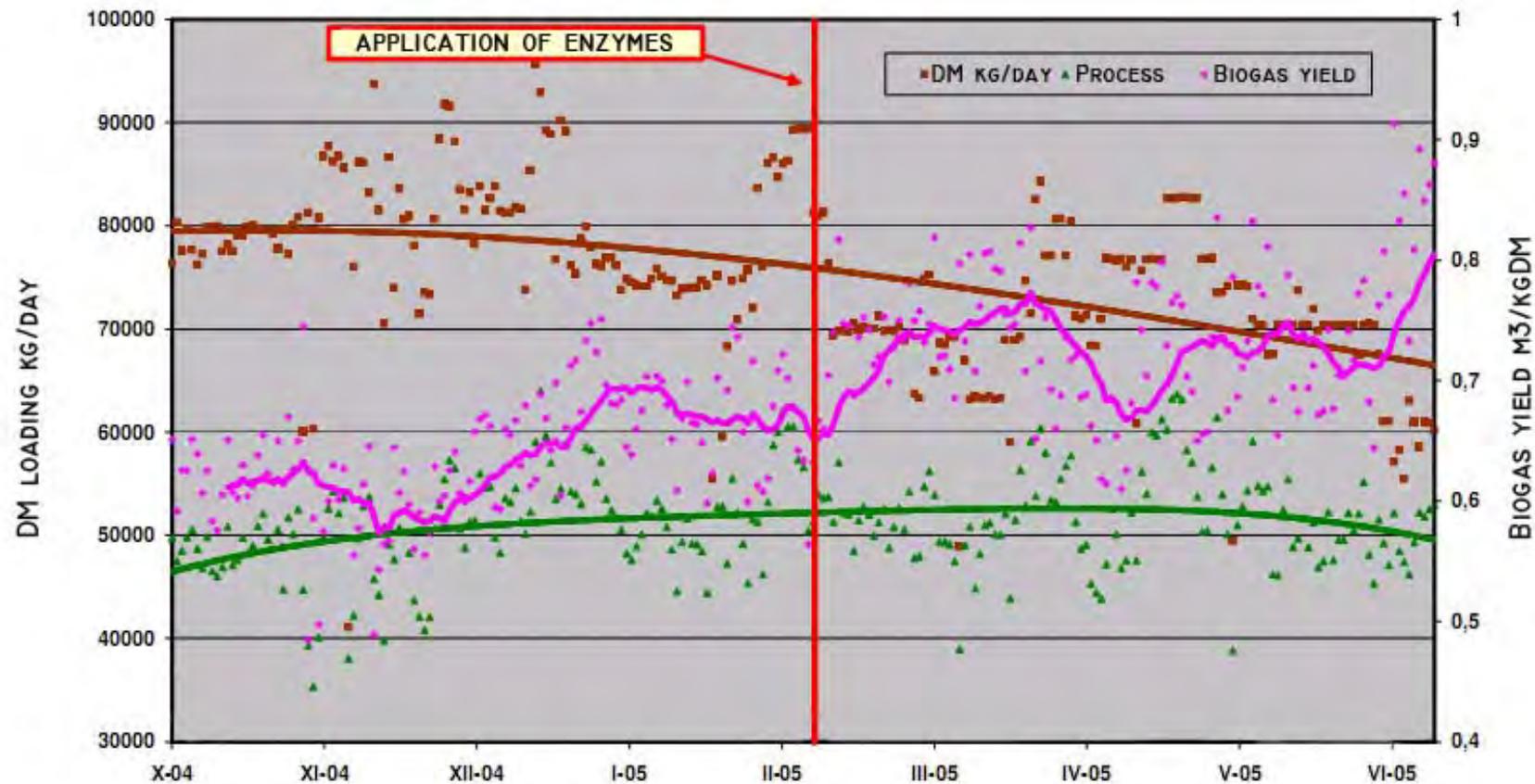
## Working mechanism

- BT-10X8 product intensify decomposition of strong and degradation resistant molecular chains of carbohydrates in substrates with high content of fibers, lignin, pectin and cellulose. Such type of molecular chains are difficult for bacteria decomposition. Application of BT-10X8 makes molecular chains shorter which boosts formation of lactic and acetic acid (hydrolysis) during the anaerobic digestion of biomass. Intensification of acids formation gives increase of methane production from the same volume of the feed stock.
- Increased invasion of methanogenic bacteria gives boost for decomposition of fats and proteins.



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## Application graph



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## Other benefits

- Significant decrease of the digestion period and high level of organics degradation;
- Solving problem of cork formation on the top of the substrate surface, which gives better gas extraction ability;
- Decrease of accompanying gases concentration in biogas (CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>S);
- Decrease of biogas plant self energy consumption due to the decrease of substrate viscosity and less mixing efforts;
- Increase of substrate thermal conductivity and as a result less heat power consumption;
- No negative impact In case enzymes are not used in future, biogas production rate just gets back to its usual volumes.

Please contact our sales team for further information  
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