OMNIVORE™

Turn your wastewater plant into a revenue generating facility

OMNIVORE™ Plant Bieringen, Biogaspark Neckar-Odenwald, Germany
1.9 MW combined power and heat

Digesters in municipal wastewater treatment plants are designed to stabilize sludge and reduce the amount of solids which must be managed and disposed. Energy generation from these solids has not been a priority in the past, however with rising energy prices; many utilities are searching for alternative methods to generate clean and reliable energy. European countries, led by Germany, have chosen to use anaerobic digestion as a key source of energy for treatment facility operations and to feed the grid. UTS Biogastechnik GmbH, part of the Anaergia family of companies, is a pioneer and global leader in the generation of clean energy from organic waste with nearly 1,600 installations worldwide.

The OMNIVORE™ is the result of 20 years of experience with high solids digesters known for their ability to handle virtually any kind of organic waste. The thicker the sludge, the merrier for this hardy digester – that's why we call it the OMNIVORE™.

Advantages of the OMNIVORE™:

- Ability to greatly increase the capacity of existing anaerobic digesters
- Biologically resilient and mechanically sturdy
- Can be used as a co-digester, increasing gas output and revenue by digesting food waste, FOG and other high strength organic wastes without sacrificing sludge digestion
- High solids digestion reduces sludge dewatering and disposal cost
- More active biomass and higher alkalinity result in a more robust digester
- Reduced foaming compared to gas mixing
- Longer solids retention time results in a higher degree of stabilization
- Lower energy requirement to maintain digester temperature

OMNIVORE™ Co-digestion Plant in Szarvas, Hungary
7.9 MW combined power and heat

Turn your wastewater plant into a revenue generating facility by increasing gas production and receiving tipping fees

OMNIVORE™ design features result in a more robust digester:

- Designed to efficiently mix in excess of 6% solids, enabling large biomass inventory and higher volatile solids reduction
- Simple tank design enhanced by efficient equipment that is easy to operate and maintain
- Safe operation with no electrical equipment in the digester and safe gas handling components
- Versatile process achieves high solids operation by either thickening the feed or through recuperative thickening
- Solids are kept in suspension by robust and energy-efficient mechanical mixers
- Equipment accessible for maintenance without digester shut-down
- Simple retrofit of existing digesters

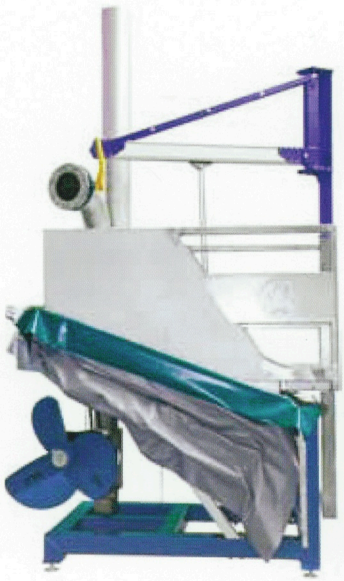
Applications:

- Conversion of aerobic digesters into anaerobic digesters
- Increasing capacity of existing anaerobic digesters
- Converting digesters into co-digesters
- Improving digesters with foaming problems

If retrofitted into a 20-day HRT conventional mesophilic digester, OMNIVORE™:

- Produces 35 to 40% more energy
- Requires 35% less heat to operate
- Co-digests 2 to 3 times more high strength waste or FOG

Proven and robust UTS components can convert any digester into an OMNIVORE™



Mixer Service Box

High Solids Mixer

Sludge Thickening Device

OMNIVORE™ is designed to handle high solids

Anaerobic digestion at high solids levels is typically unheard of and is difficult to achieve unless you have the right equipment and experience. UTS has been handling high solids slurries for the last 20 years and now makes this experience available to municipalities and industry by integrating its high solids handling equipment into the OMNIVORE™ design.

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