



BIOTHANE

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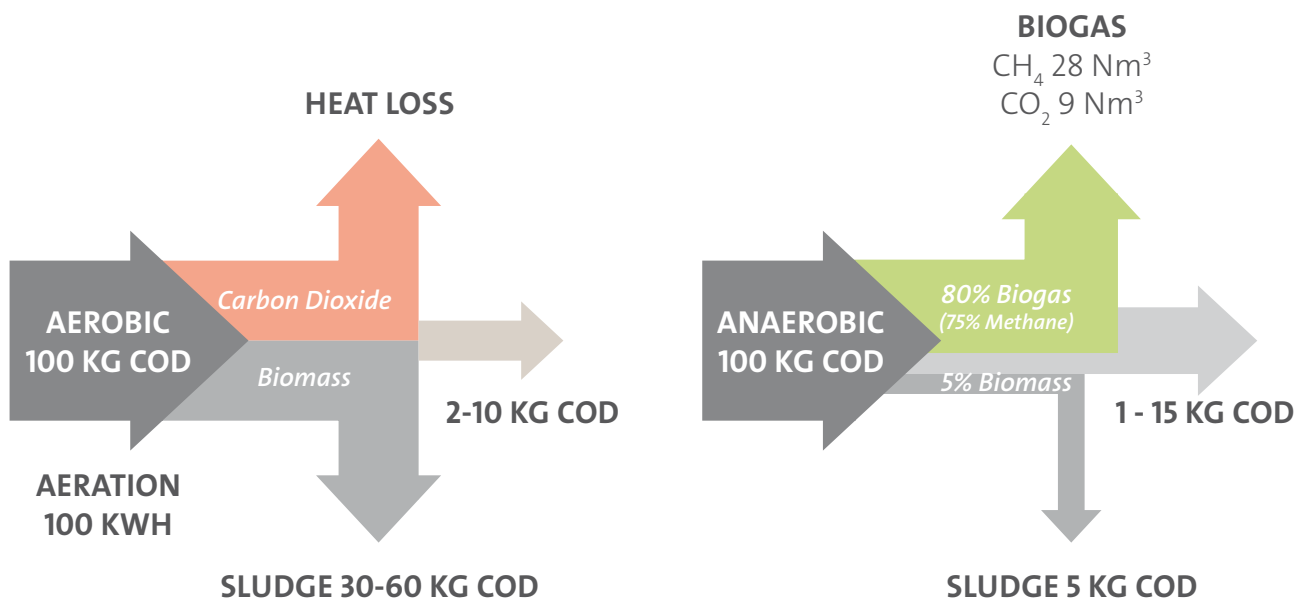
Leading Anaerobic Technologies

Industrial Effluent Treatment

Anaerobic at the heart

Why Biothane?

Since the invention of Biothane UASB technology developed by the end of the seventies, the Biothane brand has matured to world's leading brand in the field of industrial effluent –and biogas treatment. Our portfolio has evolved to a mastery of differentiating anaerobic solutions. This follows our mission to enlarge the field of applications for anaerobic technology by developing and providing most appropriate anaerobic solutions to our end users.



$1 \text{ kg COD removed} = 0.35 \text{ Nm}^3 \text{ CH}_4 = 3.8 \text{ kWh}$

Why Anaerobic?

The bases of anaerobic technology is based on the conversion of organic pollution (COD) in oxygen free environment. The COD is converted into Biogas, consisting of Methane (CH_4) and CarbonDioxide (CO_2). The technologies provide COD removal efficiencies typically ranging from > 70% - 99%. Anaerobic is at the heart as:

- Lowest operational costs;
 - > No to negligible waste production;
 - > Net positive energy balance due to production of biogas;
- Limited CAPEX
 - > Compact Design
 - > Limited foot print
- Odor free & Corrosion free
- Green & Sustainable
 - > Reduction of Carbon Footprint
 - > Bases for water re-use
 - > Bases for recovery of biogas

“Anaerobic technology is key in valorizing wastewater”

Complete solution for industrial effluent and biogas treatment



MOST APPROPRIATE CONCEPT BY BUNDLING OF EXPERTISE...

Biothane is part of Veolia; worlds' leading company in the field of environmental services. This includes the day to day operation of industrial effluent treatment including anaerobic processes. Thereby Veolia is specialized in water treatment and provides the complete range of services required to design, build, maintain and upgrade water and wastewater treatment facilities for industrial clients and public authorities.

Our end users benefit from our return of experiences in both the realization and our day to day operation of industrial effluent treatment plants. Most appropriate solutions are provided following the bundling of our proprietary technologies. Needs of clients are considered from a holistic view.

Markets



Food & Beverage

- Breweries
- Corn and starch processing
- Dairies
- Distilleries & Wineries
- Fermentation & Yeast processes
- Potato & Vegetable processing
- Soft Drink & Fruit juice beverages
- Sugar production



Pulp & Paper / Biofuels

- TMP, CTMP, NSSC, Kraft condensates
- Recycle Paper
- Fermentation & Biofuels
- 2nd and 3rd Generation Biofuels production
- Soy and Biodiesels production



Chemical / Pharmaceutical

- PET,PTA, PIA, DMT and other chemical type of processes



Municipal

- Biogas upgrading
- Anaerobic sewage treatment

Growth through Innovation....

At Biothane we continuously work towards ensuring that the research and innovation activities correctly address the knowledge gaps, technical challenges or new technology drivers. For, this Biothane has a dedicated R&D team of research engineers and technicians as well as state of the art research facilities that comprise a fully equipped analytical laboratory as well as a comprehensive pilot testing platform with more than 18 bench-scale units and 6 industrial-scale pilot plants for testing on-site.

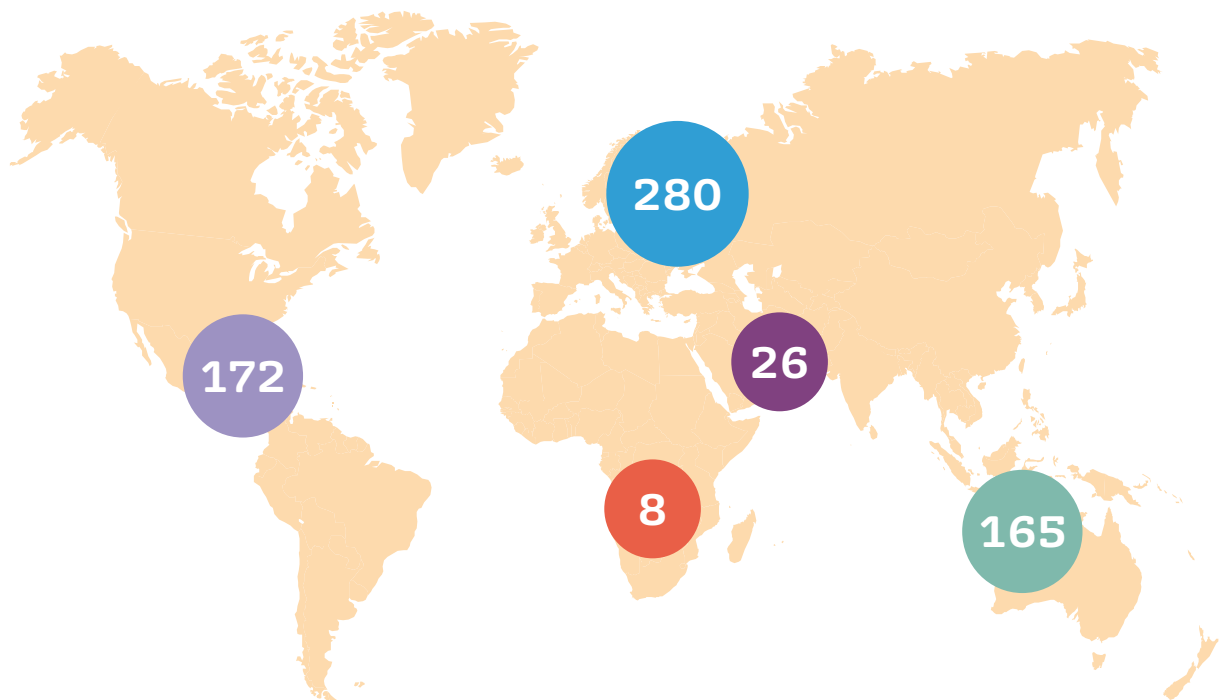


Pilot testing in Poland

BIOTHANE Life, after sales services and products

Biothane Life includes our complete set of after sales services. Ranging from extended process warranties on critical process components, to remote process monitoring through our Digital service platform of Aquavista. We support in the procurement and sales of granular anaerobic biomass.

Worldwide References



Stay tuned... Subscribe to our Webinars

Interested in our leading anaerobic and biogas technologies, interested to learn the field of application and latest developments ongoing ?

