

SCHAUMANN

BioENERGY

CONSULT

LET'S WORK TOGETHER. FOR YOUR SUCCESS.



As a specialist in energy generation from biomass, Schaumann BioEnergy Consult stands for innovative products and holistic solutions – from feedstock conservation and laboratory services to on-site digester biology and multilingual consulting worldwide.

OUR EXPERTISE. OUR SKILL. FOR YOUR EFFICIENCY.

TRACE ELEMENT PRODUCTS

- Customized formulations personalized to your plant's specific requirements
- Promote and optimise the methane formation process
- Are non-toxic and non-corrosive, ensuring safe use for operator, plant and environment

THE BC.CONCEPT

- LIQUID** **BC.TEFLEx**
Analytics-based, highly concentrated micronutrient mixture
- GRANULAR** **BC.COMPACT**
Targeted addition of micro- and macro-elements
- BC.MAGXX**
Highly bioavailable trace elements with reduced application rate



BIOLOGICAL SILAGE ADDITIVES

- CO₂ savings through the prevention of aerobic spoilage
- Increase methane hectare yields
- Prevent reheating at the clamp face during feed-out
- Protect your crop's biogas potential

- FOR CARBO-
HYDRATE-RICH CROPS**
- SILASILENERGY**
Promotes substrate digestion
- SILASILENERGY^{XD}**
Accelerates clamp maturation times, from 2 weeks onwards
- SILASILENERGY^{H2}**
For maximum acetic acid formation
- SILASILENERGY**
Combination product for biogas production and animal feed
- FOR HIGH
PROTEIN AND
LOW CARBO-
HYDRATE CROPS**
- SILASILENERGY^G**
Combination product for biogas production and animal feed, especially for grass
- SILASILENERGY^{AG}**
Particularly effective against clostridia



H₂S CONTROL

- H₂S needs to be removed from the biogas. Without alternative.

- POWDER** **BC.ATOX^{Scan}**
Effectively binds hydrogen sulphide in the digestate and supports fermentation biology
- LIQUID** **BC.ATOX^{Liquid}**
The only option in the field of liquid H₂S control products
- GRANULES** **BC.FERRO^{Scan}**
Iron granules for desulphurisation in external filters

SPECIAL PRODUCTS

- Ensure a stable process by controlling foam formation and struvite deposits

- BC.SPACON**
Destroys various types of foam
- MAPCON**
Prevents struvite and carbonate deposits
- BC.TACCON**
Increases buffer capacity

TOXIN BINDERS

- Bind inhibitors and toxins in the digester

- BC.ATOX^{Ncon}**
Minimises the inhibitory effect of ammonia
- BC.ATOX^{ACTIVE}**
Reduces nitrogen inhibition and promotes acid degradation
- ALGAE^{cell} + DETOX**
Detoxifies the biological process

FLOW IMPROVERS

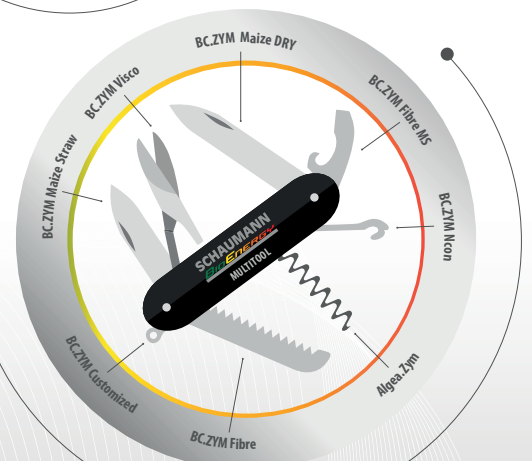
- Provide a quick remedy when using dry feedstocks and the viscosity problems associated with them

- ALGAE^{cell}**
Vitalises fermentation biology with the help of brown algae
- ALGAE^{ZYM}**
Promotes the metabolism of bacteria, reduces floating layers and improves miscibility
- ALGAE^{cell} + VISKO**
Specifically improves viscosity and homogenises
- BC.SLCON**
Homogenises the digester during phase separation

ENZYMES

- Individual tools to improve substrate utilisation and reduce viscosity

- BC.ZYM**
High-quality enzyme products to accelerate degradation and reduce viscosity



SERVICES

We provide a range of services to help operators of anaerobic digestion plants gain more control of the biological process and increase methane yields in order to improve the return on investment.

- Optimization of the anaerobic digestion process
- Crop management & forage conservation
- Start-up to full load and recommissioning
- Gas leakage surveys
- Contract research



Basis for your biogas plant management and feedstock strategy

- In-process laboratory analysis**
- Digester biology analysis
 - Batch and continuous fermentation tests
 - Inhibitor testing
 - Residual gas potential analysis
 - Silage quality analysis
 - Fertiliser value analysis
 - Special analyses on request