

VIESMANN Group

617 N. Segoe Road
P.O. Box 5408
Madison, WI 53705
Phone (608) 467-5523
Email info@BiofermEnergy.com
www.BiofermEnergy.com

Industrial Application

Plant Systems with Flexible Feedstock Options

The EUCO® Titan plant system has the flexibility to accept a wide range of solid or liquid materials from various industrial and municipal sources. It has the potential to co-digest waste from the following industries:

- Beverage industry, including breweries and wineries
- Food processors, including vegetable and meat processors, and bakeries
- Municipal waste water treatment applications, including sludge and biosolids

Systems can be tailored to suit the unique attributes of an individual waste stream to maximize treatment efficiency and biogas output.

Waste Treatment

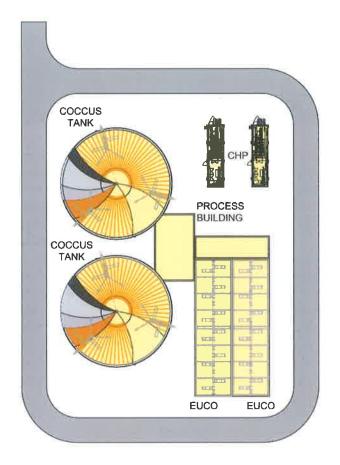
EUCO® Titan plant system can be implemented as a waste treatment solution. Treating waste on site is a more cost effective solution than hauling it away as transportation costs are avoided.

Auxiliary Systems

Many options exist to tie EUCO® Titan into an existing process flow such as an existing waste treatment operation. Additional systems can be connected to provide effluent storage, feedstock separation and tanks for supplementary feedstock.

Energy Independence

Creating renewable electricity and heat makes an operation energy independent and protects from fluctuating energy prices. Electricity can be used to power the processing operation and office building. The process heat can be used to heat buildings or the water in food processing applications.



Substrates	EUCO	coccus	Potential Continuous kW Output
10,000 tpy Corn Silage	EUCO 600	COCCUS 2400	~450 kW
25,000 tpy Corn Silage	2x EUCO 1000	2x COCCUS 4000	~1300 kW
6,000 tpy Mixed Food Waste & 4,000 tpy Vegetable Waste	EUCO 250	COCCUS 1600	~190 kW
10,000 tpy Cattle Manure w/ bedding (~15% TS)	EUCO 250	COCCUS 1200	~105 kW
50,000 tpy Cattle Manure w/ bedding (~15% TS)	EUCO 1000	2x COCCUS 4000	~650 kW



EUCO® Plant System

Biogas Systems for Feedstock with High Solids Content



EUCO® is a horizontal plug flow digester that is operated at the mesophillic temperature range. It is designed for input materials with higher solids content and runs at an average TS value of 17%.

EUCO® has a rectangular footprint and a horizontal paddle mixer than runs the full length of the tank. The mixer is powered by planetary drive units at both ends. The tank is heated through the horizontal mixer shaft. Solid material is loaded into the tank via the PASCO® feeder system. The main function of the EUCO® is to liquefy (hydrolyze) the solid feedstock to provide the second-stage digester with well broken down material. Gas production also occurs during the hydrolysis stage in EUCO® and makes up about 50% of the total production when combined with a second stage digester, such as COCCUS®.

Technical Components

- Horizontal paddle mixer ensures even temperature distribution
- Concrete coating in gas space protects concrete and reduces maintenance cost
- Robust feeder for individually tailored feedstock charging
- All technical equipment installed in one building
- Frost-proof and low maintenance safety pressure valve

System Advantages

- Suitable for feedstock with high solids content
- Handles high organic load
- Proprietary design paddle mixer prevents floating layer build up and continual gas extraction
- Heating integrated into mixer shaft
- Low parasitic energy consumption
- Industrial grade components
- Fully automated operation
- Professional plant control system with PLC technology
- Short construction time
- Scalable

EUCO Titan®

The EUCO® Titan plant system is a combination of the EUCO® plug flow digester and the COCCUS® complete mix digester. It is well suited to extract energy from material with a higher solids content.



