



Organic Energy Worldwide

AHK Italy

October, 13th 2020



300 Plants

25 Countries

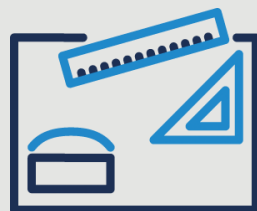
5 Continents





We cover the entire value chain “Biogas”

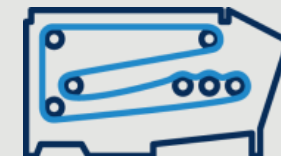
Plant construction



Service



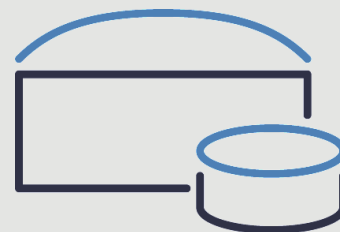
Slurry and digestate processing



Interim management



Own operations



Heat contracting





Nordmethan

- Founded in 2008
- Acquisition, planning and long-term operation of biomethane and biogas plants
- Consulting, energy trading and CHP contracting
- Offices in Vechta and Magdeburg
- Plant locations in Lower Saxony, East Germany and Hesse
- Around 40 employees





02

Reference plants



Semiana, Italy

Project data

Start of construction: August 28th, 2012

Commissioning: November 7th, 2012

Full-load operation: December 19th, 2012

Input materials: Maize silage
cow slurry
water
separated liquid

Technical data

Digester: 2x 4,000m³

Secon-stage digester: 4,000m³

Storage tank: 1 tank Ø33,5m

CHP: 1 MW_{el} in total

Miscellaneous: Separation

Characteristics

This facility is a clear example of the fast construction of stainless steel digesters. Due to the special modular system, the plant was put into operation after only 2.5 months and already four months after start of construction the plant was on full load.



Reference Plant Biomethane



Jeppo, Finland



November 2013



750kW



Potato peels, vegetable remains, manure, grass and straw



3 Digester á 4,000m³



The biogas is partly converted into electricity with the CHP. The other part is processed to biomethane and is available in large gas tanks as vehicle fuel or for the industry.



Reference Plant Waste-to-Energy



Pontefract, England



December 2019



850Nm³/h Biomethane
500kW CHP



Food leftovers, but also grass / green rye silage and cattle & chicken manure



5 pre-storage tanks made of stainless steel
4 digester of 6,848m³
2 push floor dosing feeder (110 & 200m³)
2 **MULTIMix**



With the energy produced, about 9,600 households can be supplied. The gas upgrading works with membranes.

Reference plant sewage sludge



Burgebrach, Germany



April 2016



25kWel + 58kWth



Sewage sludge with 4-4.5% DM content



1 digester of 420m³



- Reduction of COD loads in sewage by about 1/3
- Minimization of odor emissions

Thank you!



Mr Thomas Sextro
Sales

Phone +49 4441 99978-212
t.sextro@weltec-biopower.de

WELTEC BIOPOWER GmbH
Zum Langenberg 2
49377 Vechta
Germany
www.weltec-biopower.com