



Company presentation

Bioplyn CS s.r.o.

A close-up photograph of vibrant green grass blades, filling the bottom half of the slide. The grass is bright and healthy, suggesting a natural or agricultural setting.

Biogas plants



Bioplyn CS s.r.o.

- **Czech engineering company**
- **company was established in 2007**
- **turnover 2012 about 3,8 mio EUR**
- **turnkey deliver of biogas plants with German technology of Bioconstruct GmbH for Eastern Europe including:**
 - ✓ Project documentation
 - ✓ Feasibility study
 - ✓ EIA documentation
 - ✓ Building permit
 - ✓ Energy audit etc.
- **Wet and dry fermentation technology**

Technology advantages

- efficiency and low energy consumption
- high utilization of cow manure, slurry and grass silage
- utilization of sugar slices and food waste
- utilization of biowaste and slaughter waste
- thermopressure and normal hydrolysis technology
- drying plants, ultrafiltration
- ORC systems, biomethan utilization, CNG

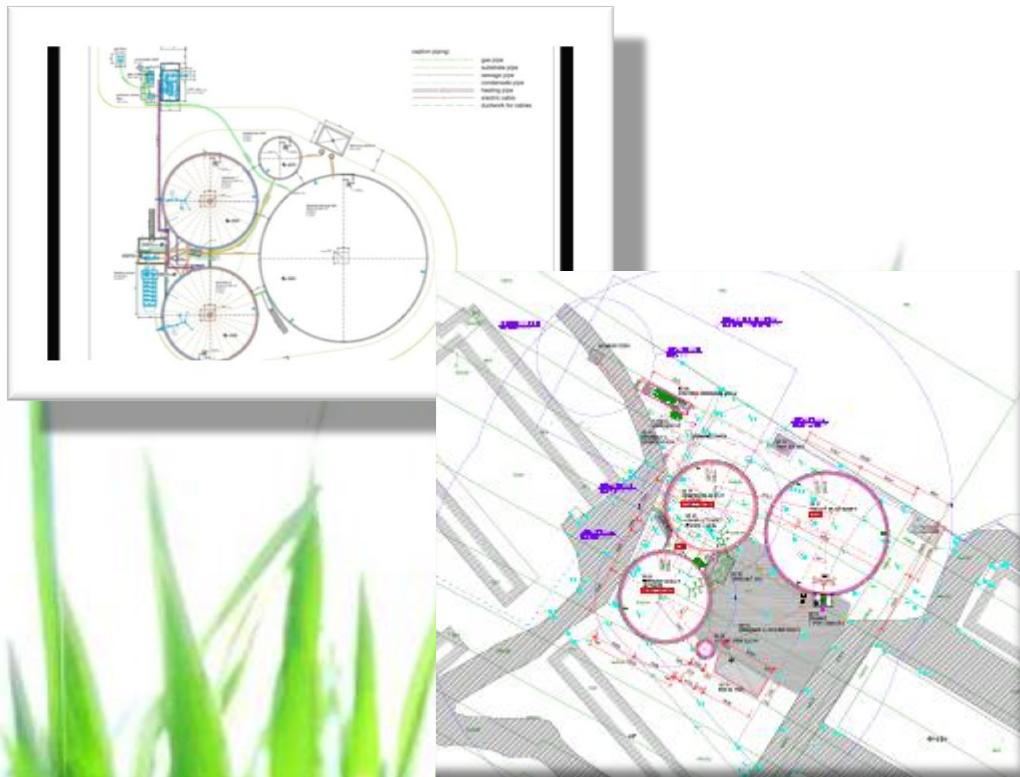


Competitive advantages

- Tailor-made solutions and intelligent project planning
- Built to last with components of very high quality
- Independent from component suppliers



Individual planning and dimensioning

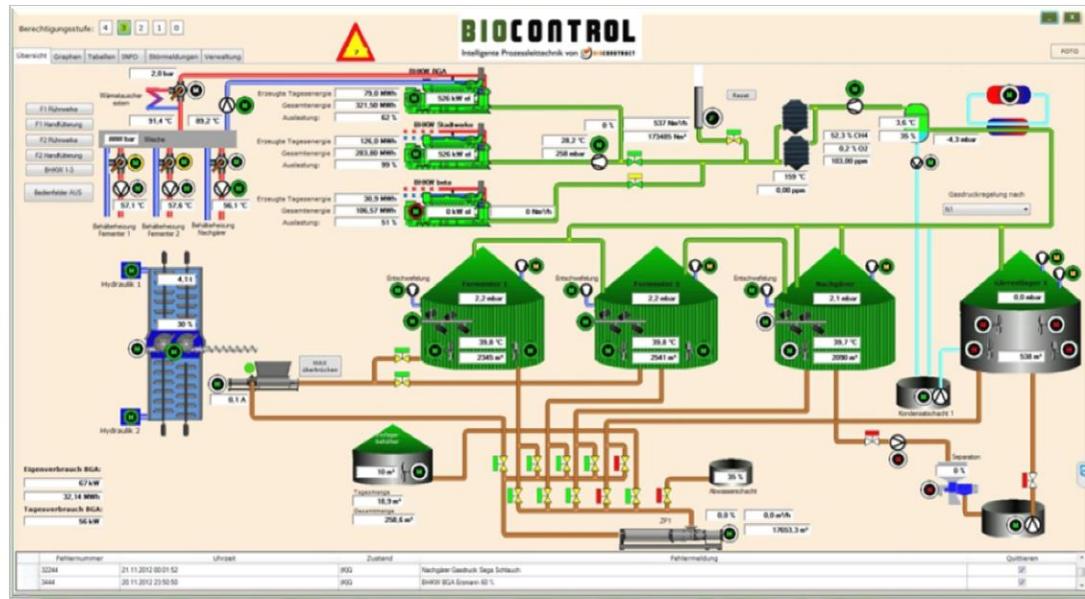


- Dimensioning based on available substrates
- Broad experience with different substrate types
- High security due to 2-stage fermentation system
- More than 96% efficiency in average of more than 130 biogas plants!

Individual after-sales-solutions



Online monitoring



- Remote control of key components
- Alarm message delivery in case of irregular plant data
- Telephone support for instant measures
- Telephone hotline 24/7
- On-site visits in emergency cases

Technical details

➤ Mixing pump



➤ Solids charging system



Technical details

- Mixing systems



- Stainless steel heating



- Paddle mixer
- Submersible mixers

Technical details

- Substrate distribution
- Gas cooling and cleaning system



Technical details

- Compact layout



- Integrated technical building

Special solutions

Heat utilisation-facilities

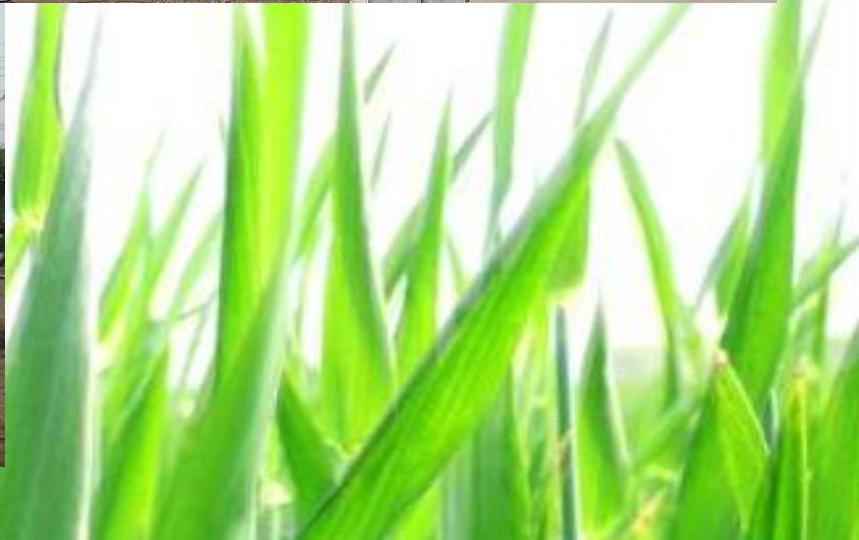
- Wood
- Fermentation residues
- Bulk material drying



Special solutions

Biomethane

- Biogas into the natural gas
- CNG systems



References

Czech republic

- Biogas plant Jaroměř, 1,7 MW, year 2008
- Biogas plant Bukovec, 1 MW, year 2009
- Biogas plant Pleše, 0,6 MW, year 2010
- Biogas plant Loukovec, 1 MW, year 2011
- Biogas plant Staňkov, 0,6 MW, year 2012
- Biogas plant Výškov, 0,526 MW, year 2012
- Biogas plant Úsilov, 0,637 MW, year 2012
- Biogas plant Kratosice, 0,6 MW, year 2012
- Biogas plant Žabovřesky, 0,526 MW, year 2012
- Biogas plant Dřevec, 0,6 MW, year 2012



References

Germany, Europe

...about 150 biogas plants in the operation from 0,19 MW up to 6,5 MW...



Finale Emilia (IT)

- Installed electrical capacity: 250 kW



Het Haantje (NL)

- Installed electrical capacity: 6,5 MW
- Direct sale of electricity on the stock market
- Peak tariff feed-in (load management)
- Digestate processing with ultrafiltration

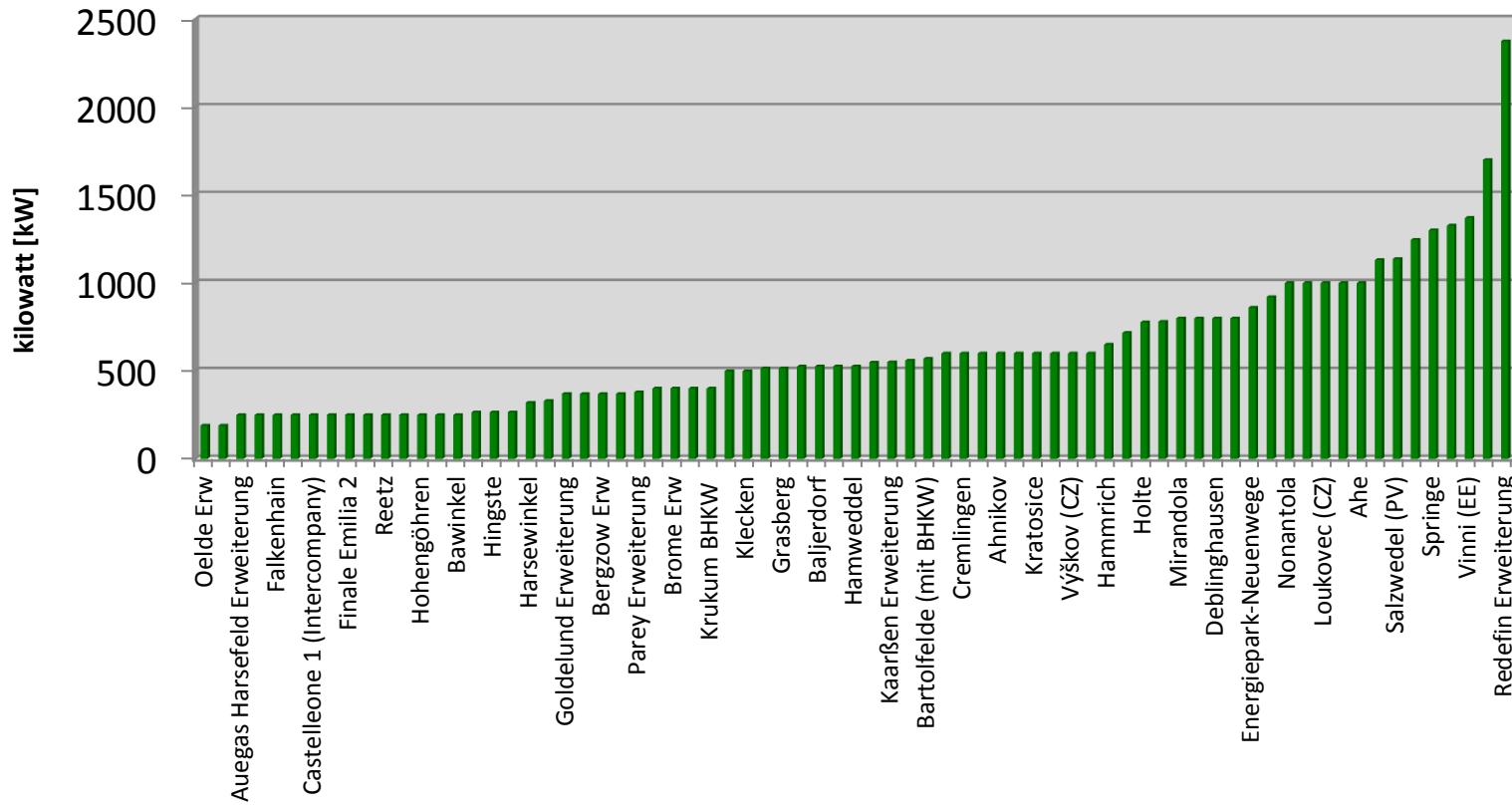


Oisu, Väljaotsa (EST)

- Installed electrical capacity: 1200 kW
- Cattle and pig slurry, cattle and pig dung

Installed electric capacity

Installed electric capacity 2012



Thank you!

We are looking forward to a cooperation...





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