

CHP UNITS IN BIOGAS PLANTS

CHP unit is the final element of a biogas plant. The CHP unit's quality and reliability are often what determines the financial return period of funds invested into the entire biogas plant system. TEDOM CHP units are used in numerous countries worldwide for biogas plants. Customers predominantly appreciate the high technical level of our products, their reliability, and our professional services.

BIOGAS PLANT BAČ, SERBIA



This biogas plant is located in the industrial zone of Bač municipality in the North-Western Serbia. It is technology that employs wet fermentation to process farm crops and wastes such as maize silage, beet sugar slices, molasses, cow dung, and so forth. The whole is divided into three separate biogas plants with an electrical output of 3x 650 kW and a heat output of 3x 677 kW. The project was built in two phases: BGS BETA and BGS GAMA from June 2015 to June 2016, and BGS ALFA from June to December 2017. The units are completed with the biogas treatment system.

Basic Information on the Installed Unit

CHP Unit type	Quanto D800
Number of units	3
Fuel	Biogas
Electrical output	1 950 kW
Heat output	2 031 kW
Year of installation	2016 + 2017
Place of installation	Bač, Serbia

Benefits of CHP unit installation

Each of the CHP units operates independently of each other. The generated power is used for the actual consumption of the biogas plant, and the surplus power is supplied into the grid. The consequent utilization of heat is also worth noting. Utilization of heat in biogas plants is usually troublesome - only part of the produced heat is often utilized, mainly to heat the technology or, if appropriate, adjacent buildings. However, the heat from CHP units in Bač is intended mainly for a drier of the separate to be consequently processed into pellets.

SELECTED REFERENCES FROM BIOGAS PLANTS



Biogas plant in Ochain, Belgium

CHP unit type: Quanto D600
Electrical output: 600 kW
Year of installation: 2017



Biogas plant in Čabradský Vrbovok, Slovakia

CHP unit type: Quanto D800, Cento T200
Electrical output: 1000 kW
Year of installation: 2014 + 2016



A. Schmidt biogas plant, Geel, Germany

CHP unit type: Cento L500
Electrical output: 500 kW
Year of installation: 2016



Biogas plant in Čáslavice, CR

CHP unit type: Quanto D580
Electrical output: 580 kW
Year of installation: 2012

Additional references from this category:

- Cento T200, BP Häfeli, Lenzburg, CH
- Cento T160, BP BioKympii, Kitee, FIN
- 2x Cento T120, BP Kuźnica, PL
- Cento T200, Edgeworthy Farm, Tiverton, UK
- 2x Cento T200, Woodside Farm, Kinloss, UK
- 2x Cento T200, BP Banya, BG
- Cento T120, Graingham Farm AD Plant, UK
- Micro T30, Farm Lennart Molander, Svenstavik, SE
- Cento T160, GAEC Berezziat Giraud, Berezziat, FR
- 2x Cento L500, BP Sereď, SK
- Cento T120, Honeybrook Family Farm, Dorset, UK
- Cento T160, SASU Laurent Bourcier, Sury-le-Comtal, FR
- Cento T200, Farm Sophia, La Rosita, MX
- 2x Micro T30, BP Peccia, IT