

Kamenice, Region Vysočina Biogas Plant

The biogas plant in Kamenice was put into operation in 2010. It processes approximately 35 000 tons of animal by-products derived from primary agricultural production and 13 000 tons per year of energy crops. Hourly production of biogas, which is produced in two primary digesters with a capacity of 2 700 cubic meters and one secondary digester a volume of 3 400 cubic meters is 400 to 500 cubic meters. The produced biogas is burned in two cogeneration units with a total output of 990 kWel.

Produced electric power is supplied to the distribution system and heat in addition to heating the fermentation tanks delivered to the customer for the purpose of drying wood. Own electricity energy consumption of the biogas plant is around 8%, depending on the produced output

Technology at a glance

- Biogas production: 120 - 150 m³/h
- Installed power: 250 kW
- Digester type and volume (m³): Two-stage fermentation: 2x digester (1st stage) - 2700 m³ and 2700 m³ and 1x second digester (2nd stage) - 3400 m³
- Type of waste used: 30 000 tons/year of pig manure, 5 000 tons/year of bovine dung, 10 000 tons/year of corn silage, 5 000 tons/year of grass silage
Amount of waste/raw material used as substrate (t/year): 50 000 t organic wastes
- Operating hours: 8 500 hours per year



Information on financing

Year of realisation: 2010

Total investment costs: € 3,704 million

Feed-in tariff electricity: 15,25 cent/kWh

Tariff for heat sale: 5,55 €/GJ

More information

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Plant operator

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