

## Telč, Region Vysočina Biogas Plant

The biogas plant in Telč was put into operation in 2014. It processes approximately 11 000 tons of animal by-products from agricultural production, 3 000 tons of energy crops and 3 000 tons of waste per year. Hourly production of biogas, which is produced in the digester with a capacity of 2 900 cubic meters, is 120-150 m<sup>3</sup>. The produced biogas is burned in a cogeneration unit with a total output of 250 kWe.

Generating electrical energy is consumed in the centre of fattening pigs and the surplus is supplied into the distribution system. Heat will be in 2014 in addition to heating the fermentation tanks supplied for the purpose of heating pre-fattening pigs. Own electricity energy consumption of the biogas plant is around 10%, depending on the produced output.

### Technology at a glance

- Biogas production: 120 - 150 m<sup>3</sup>/h
- Installed power: 250 kW
- Digester type and volume (m<sup>3</sup>): Single-stage fermentation: 1 x 2 900 m<sup>3</sup> digester
- Type of waste used: 11 000 tons/year of pig slurry, 3 000 tons/year of corn silage, 3 000 tons/year dairy sludge
- Amount of waste/raw material used as substrate (t/year): 24 000 t organic wastes
- Operating hours: 8 500 hours per year



### Information on financing

Year of realisation: 2013

Total investment costs: € 0,925 million

Feed-in tariff electricity: 13,14 cent/kWh

#### More information

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#### Plant operator

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