Biogas Regions
Shining Example

Biogas plant „Fier et Nom“
In the wastewater-treatment plant

This biogas installation is associated with a wastewater-treatment plant. This plant is the property of the city of Thônes, in Haute-Savoie.

The architect of the wastewater-treatment has given information about digestion to elective representatives:

- Minimal volume reduction of 45% of digested sludge (saving 66 000 € if the sludge go to incineration),
- Utilization of the heat from biogas to heat the plant office (saving 3 700 €/year),
- Exploitation over-cost for electricity and consumable (approximately 8 500 €/year).

With these information, the elective representatives have been able to choose.

The return on investments has been estimated to 17 years, so they decided to do digestion, with a will to develop the digested sludge in compost.

The biogas production has variation during the year, because of the activity of tourism is more important in winter (mountain place).

The digested sludge are composted before to spread on fields.
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key data
Start of Operation .................................................. 2005
Type of exploitation .................. Contract for provision of a service
Amount of gas produced .................. 202 149 m³ per year
Investment costs .................................................. 1 087 000 €

whose 204 000 € is for the ATEX standard

feedstock
Sewage sludge (primary and biologic) .................. 21 m³ per day

production data
Available area for the output of the biogas fertilizer .......... 5 ha
Utilisation of heat .................................................. neighbouring office

technical plant description
Bunker silo .................................................. 80 m³
Digester .................................................. 800 m³
Digested manure storage tank .................................. 120 m³
Gas storage tank .................................................. 145 m³
Residence time in the digester .................................. 24-30 days
Temperature of the anaerobic digestion (operational) .......... 35-37°C

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