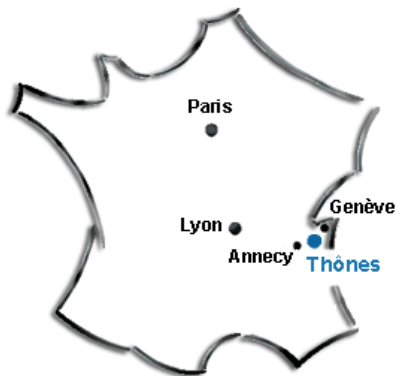


## Biogas plant „Fier et Nom“ In the wastewater-treatment plant

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



Location of Thônes in France  
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The architect of the wastewater-treatment has give 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 theses 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.



View of the biogas unit © SIA Fier et Nom

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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 m<sup>3</sup> per year**  
 Investment costs ..... **1 087 000 €**  
 whose 204 000 € is for the ATEX standart

**feedstock**

Sewage sludge (primary and biologic)..... **21 m<sup>3</sup> 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 m<sup>3</sup>**  
 Digester ..... **800 m<sup>3</sup>**  
 Digested manure storage tank ..... **120 m<sup>3</sup>**  
 Gas storage tank ..... **145 m<sup>3</sup>**  
 Residence time in the digester ..... **24-30 days**  
 Temperature of the anaerobic digestion (operational) ..... **35-37°C**

For further Information, please contact:

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