

## Best practice example

### Biogas plants



## Ferti-NRJ, Passel, France

### Biogas Plant

The centralised biogas plant in Passel-Noyon has been operating since 2009. The plant processes 80% industrial waste such as sludge, greases, screening waste and production scraps, and 20% sewage sludge. It is authorised to process up to 38 000 t/a of waste. The waste is homogenised in a mixing tank before injection in the digester. Fermentation takes place in two digesters (3000 m<sup>3</sup> each). The digestate is dried and valorised as compost (NFU 44-095). The gas feeds two generators (1,4 MW). The electrical energy produced (10 950 MWh / a) provides for the needs of 9000 inhabitants of a nearby town. The thermal energy produced (12 300 MWh / a) is entirely valorised on site to maintain digester temperature, buildings and offices and the drying of the digestate.

### Technology at a glance

Biogas production: 4 500 000 m<sup>3</sup>/a (118 m<sup>3</sup> / ton of waste treated)

Installed power: 1,4 MW

Digester type and volume (m<sup>3</sup>): 2 x 3000 m<sup>3</sup>

Type of waste used: industrial waste (sludge, greases, screening waste, production scraps) ; sewage sludge

Amount of waste/raw material used as substrate (t/year): up to 38 000 t / a (80% food waste)

Operating hours: ?



### Information on financing

Year of realisation: 2009

total investment costs: € 8 million

feed-in tariff electricity: ?

tariff for heat sale: ?

#### Information

Association Nationale des Industries Alimentaires, 21 rue Leblanc, 75015 Paris, FRANCE

Tel.: +33 (0)1 53 83 86 14

Fax: +33 (0)1 53 83 92 37

E-Mail: [imarley@ania.net](mailto:imarley@ania.net)



#### Plant operator

Ferti-NRJ

1 rue de la Couture ZA

60400 Passel

FRANCE