



SUCCESS STORY

Gaec du Petit-Bernard in Auvergne
France

France – Success Story

The Gaec du Petit-Bernard in Auvergne, started its dry process AD plant on 4 October 2016.

The three partners Stéphane LACOSTE, Alexandra MISSIEL and Huguette LACOSTE are initially breeders of 100 suckler cows with 250 young cattle destined for fattening or quarantine intended for export.



The role of the BEF 2 project

The breeders were looking for a model of unit adapted to the size of their farm and thus adapted to a limited labor force. In addition, breeders began by looking at continuous process solutions that allow for a limited and regular workload on a daily basis. However, since the dry matter content of the mixture of their effluents was high (> 18%), they also looked at discontinuous dry process solutions. These, however, seemed to them more burdensome in their workload.

The breeders lacked impartial elements to choose between the two types of process. Also, they wished to verify thanks to an independent diagnosis such as the BEF diagnosis, which solution was the best suited to their situation. The BEF diagnosis thus demonstrated that a liquid process plant exhibited more negative aspects both from a technical and economic point of view (very high payback period). The breeders then definitively chose the dry process looking for technical innovations to limit the daily working time on this biogas plant.

The sort of biogas plant

The unit is a dry process, discontinuous biogas plant consisting of 3 digesters, silo type, thermally isolated and heated by a heating floor. Each digester has a cycle of

about 21-30 days and runs at 37-40 °C. The silos of 162 m³ each are equipped with a motorized hood that limits the need for labor when opening the silos.

The reason to invest

- Diversify income
- Better upgrading its effluents
- Increase farm autonomy

Other relevant information:

The emptying time of each silo and reloading is estimated strictly at 2.5 hours. However, if the manure preparation, with a manure spreader, is counted before entering the digester, the start-up of a digester takes 1 day.



Key data:

Feedstock: 3500- 4000 tonnes per year

Type of plant: Small scale AD plant

CHP power :

- operates at 50 KWe
- installed capacity 62 kWe

Energy utilization: The heat use project is underway. Breeders want heat to be used to dry fodder stored in round bales.

Start of operation: 2016

Location : Gaec du Petit Bernard 15600 SAINT CONSTANT (AUVERGNE) - France

Investment cost:

520 000€ before subsidie, 120 000 €

Payback period: 7-8 years (estimated)

Supplier: Cap Energie Sud

15500 LA CHAPELLE LAURENT –France
<http://www.certitude-energie.com/la-methanisation/>

The project BioEnergy Farm II wants to inform farmers about the benefits of micro scale digestion and give farmers a view on the feasibility of this technology for their business.

Are you curious about the feasibility of micro scale digestion on your farm?

Our biogas experts have software tools to calculate the feasibility of micro scale digestion on your farm. Contact us!



www.BioEnergyFarm.eu



#BioEnergyFarm

s.bonhomme@trame.org



Co-funded by the Intelligent Energy Europe
Programme of the European Union