



## TESLA ECO SOLUTIONS

### EXPERIENCE WITH 100% PIG SLURRY REFINERY



Since 2012 the French Drouilhet family operates a Bert 600m<sup>3</sup> digester and a CHP with 50 kW/h electrical output. Without adding other substrates about 10,000 tons annually, (= 27 tons per day) 100% pig slurry (DM 5.7%, ODM 77.1%) are processed by the digester. The pig farm with 450 breeding sows and 4,000 rearing places is housed in 4 buildings. With the Bert digestate 280 ha of corn and cereals are fertilized.



Manager Benoît Drouilhet has opted for Bert slurry refining because he wanted to use the value of his slurry without having to spend a lot of his precious time managing the process. He normally needed 30 tons of propane gas per year to heat the 4 buildings, now he is saving 60% on his

farm's gas consumption. Additionally he benefits from the French electrical power feed-in-tariff of 18,36 Eurocent / kWh electric. Benoît Drouilhet proudly reports in the French trade journals that he only needs 15 minutes of work per day operating the Bert installation. More information from the French Specialist newspaper "Reussir Porc" can be found at:

<https://www.reussir.fr/porc/une-premiere-methanisation-100-lisier-dans-lain>

### 18 months of experience show the following results

- Daily 797 kW/h electric power feed (= Ø 33.2 kW/h electric)
- Monthly electricity yield: 4.389 EURO
- Daily 516 kW/h thermic heat for piggery and building heating (= Ø 21.5 kW/h therm.)
- Heating oil costs of 0.60 EURO/L equals savings of 941 EURO per month
- Total economic benefit per month: 5.330 EURO or 63.960 EUROS per year.

Yearly savings of about 18,800 liters of heating oil are realized. Detailed records of CH<sub>4</sub>, H<sub>2</sub>S, O<sub>2</sub> and CO<sub>2</sub> are available also and will be send upon request.

### Bert slurry refining process

About 27 tons of fresh pig slurry is poured daily into the pre-pit. Every 2 hours about 2,3 tons are fed into the digester. The fermented slurry, which doesn't smell any more, is a much better fertilizer (available for own use), reported Benoît Drouilhet. The company is located in Domsure, about a 1 hour car drive north of Lyon Airport. Contact us if you are interested in a visit.



Bert 600m<sup>3</sup> / 50 kW CHP With 100% pig slurry