



## YOUR BIOGAS EXPERT

Beauval Zoo  
265 kWel Wet process



### Project owner

Beauval Zoo

### Feedstock

11 000 tons per year :

- 1 500 t of zoo manure
- 1 000 t of cow manure
- 600 t of cereal wastes
- 3 000 t of green wastes
- 4 900 t of pig slurry

### Energy production

Cogeneration unit  
265 kWel electricity production, injected to the grid  
200 kWth heat production, used for :  
- biogas plant self-consumption  
- greenhouses and elephant winter building heating

### Digestate

Solid digestate : 2 000 t/year  
Liquid digestate : 9 000 t/year  
Spread as fertilizers on agricultural fields

### Wet Process

Continuous Stirred-Tank Reactor (CSTR)  
Digester tank : 1 780 m<sup>3</sup>  
Post-digester tank : 820 m<sup>3</sup>

### Specific advantage

Optimized pretreatment of solid wastes inside the incorporation tank : separation and grinding  
Containerized process

### Naskeo involmment

- ✓ General design
- ✓ Turnkey project including CHP with energy production warranty
- ✓ Project management

### Commissioning year

2013