



BIOGAZ POWER PLANT - VENDÉE- FRANCE



THE CASE

Biogas plant is the GAEC VDLV 590kVA facility dedicated to energy production using only animal biological wastes. This facility is subject to a specific contract with the company ERDF (French company in charge of the national grid management).

The generator is installed in permanent paralleling mode and the plant includes a very sophisticated adaptation of the active and reactive power management; control of these power levels, a long-term secured data archiving and management of auxiliaries.



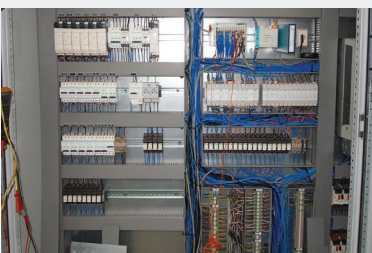
OUR SOLUTION

CRE technology provides GENSYS 2.0 with CANopen expansion module with 32 digital outputs, 32 digital inputs, 4 analog inputs and 4 outputs for processing signals 4-20mA and 0-20mA.

In addition to the equipment CRE technology also provides technical expertise and is involved in the development of the project through its engineering application service.

The GENSYS 2.0 manage the following features:

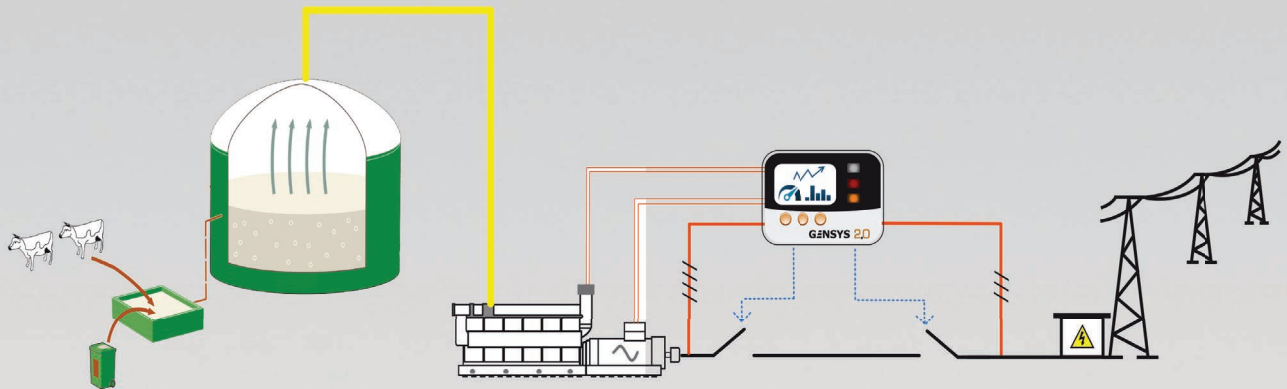
- Synchronization of the generator by contact outputs,
- Management of active power set point and power factor based on the acquisition of biogas quality, power quality and production demand,
- Control of auxiliaries,
- Data sharing with engine controller through
- Modbus communication and analog signals,
- Management of electrical protections,
- Manual mode,
- Secured archiving via SD card for a period of 15 years.





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DETAILS OF APPLICATION



FOCUS ON

8GB SD card storage:

For this installation the customer required a secured archiving system for a 15 years long data recording on biogas and ERDF network power. CRE technology has used the SD card storage and a dedicated password protected program using GENSYS 2.0 internal automation functions.

PRODUITS INSTALLED

- 1 GENSYS 2.0 in permanent paralleling mode
- Additional remote CANopen inputs/outputs slots.(analog and digital).
- 8Go SD Card

CRE TECHNOLOGY has provided the engine and genset industry for over 25 years with standard products and dedicated solutions for engine control, genset protection and paralleling.

All application fields where power is the core resource of performance are covered by CRE TECHNOLOGY. The company is a reference in the industrial, marine and defence businesses.

Our very strong situation allows us to invest, feeding our ambition to be always more advanced, always closer to you. The coming years will see the broadening of our distribution network and of our innovative products portfolio.

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