

## CLAI S.C.A

### Agriculture and Food

#### Main CHP project indicators

Heat capacity (total)	kW <sub>th</sub>	910
Electrical capacity (total)	kW <sub>el</sub>	888
Technology	Motor engine	
No. of units	1	
Manufacturer	Jenbacher	
Type of Fuel	Biogas	
Heat: yearly generation	MWh	7.280
Electricity: yearly generation	MWh	7.104
Year of construction	2012	
Total investment costs	EUR	-
Financing	Contracting	
State support	Feed-in tariff	
Location	Imola, Italy	
Information	<a href="http://www.cefla.com/it/business-units/impianti/referenze/impianti-di-produzione-energia/fonti-rinnovabili/clai-societa-cooperativa-agricola">http://www.cefla.com/it/business-units/impianti/referenze/impianti-di-produzione-energia/fonti-rinnovabili/clai-societa-cooperativa-agricola</a>	

#### General description of the case

Cefla has realized a CHP package plant for Cooperative Clai near Imola.

The system produces an electrical power of 888 kW<sub>e</sub> and is equipped with a Jenbacher JGS 412 engine, having an electrical efficiency of 42 %.

The process is based on the anaerobic fermentation of the organic component, contained in the products of slaughter and livestock (pork fat, pig stomach contents, and pig intestinal pack). The electricity produced is fed into the grid, while thermal energy is recovered from the cooling circuits of the engine. Thermal energy is entirely used inside the plant for the heating of the same and for pasteurization processes.

#### Success factors

Renewable sources coming from the cooperative itself are used. This solution permit the decrease the tons of waste per year.

Feed-in tariff

#### Picture



#### Conclusions

This type of system can be installed at companies that produce livestock and agro-industrial wastes.