

## BIOGAS REFERENCES



AUGUST 2013

## **INDEX**

- **PORGAPORCS (Lleida)**
- **SAT SANT MER (Girona)**
- **TRAMAVE (Valencia)**
- **MAS BÉS (Girona)**
- **URBILIZA RENOVABLES (Zaragoza)**
- **E-COGENERACIÓN CABANILLAS (Navarra)**
- **FINCA MOURISCADE (Galicia)**
- **AGRONSELLA (Zaragoza)**
- **ZAIDÍN Y CAPELLA (Zaragoza)**
- **SANTIENER (Valladolid)**
- **OTHERS**



## PORGAPORCS



**Vila-Sana, Lleida**

Year: 2006

Volume : 11.500 t/year porc slurry, 4.650 t/year of residues

Digester volume: 1.360 m<sup>3</sup> + 1.360 m<sup>3</sup>.

Energy production: Motor 199 kW, 1.592.000 kWh/año.

**BIOVEC Staff done:** Permits and grants, engineering, purchasing management support and execution of work and facilities.

## SAT SANT MER



**Sant Esteve de Guiabes, Vilademuls, Girona**

Year: 2008

Volume : 6.530 t/year de cow slurry, 5.700 t/year of residues

Digester volume : 2.100 m<sup>3</sup> + 1.360 m<sup>3</sup>

Energy production: Motor 370 kW, 2.960.000 kWh/año

BIOVEC has done: design, engineering and commissioning process.  
BIOVEC permits and grants, project management and purchasing management. Currently performs supervisory duties.

## TRAMAVE



**Picassent, Valencia**

Year: 2009

Volume: Aprox. 40.000 Tm/year of residues.

Energy production: 2 engines of 500 Kw, 80.000.000 kWh/year

BIOVEC performed: Design, detailed engineering, environmental clearance, procurement, site management on site, supervision of implementation and monitoring. Currently performed operation and supervision work. Currently performs supervisory duties.

## URBILIZA RENOVABLES



Year: 2011

Volume: Aprox. 20.000 Tm/year of cow slurry and 3.000 tons of residues.

Energy production: 2 engines de 250 kW, 4.000.000 kWh/year

BIOVEC performed: Design, detailed engineering, procurement, site management in construction management and commissioning. Currently performed operation and supervision work.

## MAS BES (GIRONA)



**MAS BES Salitja (Girona)**

Year: 2010

Volume: Aprox. 8.500 Tm/year de deyecciones vacunas y 3.000 toneladas de residuos.

Producción de energía: 1 equipo de 250 kW, 2.000.000 kWh/año

**BIOVEC** ha realizado: Diseño, soporte y supervisión e puesta en marcha. Actualmente realiza labores de explotación y supervisión.

## E-COGENERACIÓN CABANILLAS



### Cabanillas, Navarra

Volumen tratado: Aprox. 12.000 Tm/año de deyecciones porcinas y 8.000 toneladas de residuos.  
Producción de energía: 1 equipo de 370 kW, 2.900.000 kWh/año

**BIOVEC** ha realizado: Tramitación de permisos, diseño, ingeniería de detalle, gestión de compras, dirección de obras e instalaciones. Actualmente realiza labores de explotación y supervisión.



## FINCA MOURISCADE



**Lalín, Pontevedra**

Year 2.012

Volume: Aprox. 1.500 Tm/year cow slurry and 500 tons of residues.

Energy production: 1 equipment of 60 kW.

BIOVEC performed: Permitting, design, detail engineering, procurement, construction management and facilities.

## AGRONSELLA



**Undués de Lerda, Zaragoza**

Year 2013

Volume: 8.000 Tm/year of pork slurry.

Energy production: 1 boiler 140 kW.

BIOVEC performed: Permitting, design, detail engineering, procurement, construction management and facilities and commissioning.

## ZADÍN Y CAPELLA



### Zaidín y Capella, Zaragoza

Under construction

Mixture of pork slurry and residues

Energy production: Zaidín 750 kW, Capella 500 kW engines

BIOVEC performed: Detail engineering, construction assessment and facilities and commissioning.

## SANTIENER



### Iscar, Valladolid

Under construction  
Mixture of pork slurry and residues  
Energy production: 1 MW boiler

BIOVEC performed: Design, detail engineering, procurement, construction management and facilities and commissioning.

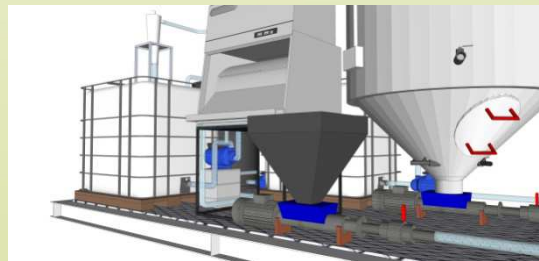
## PILOT PLANTS AND TESTS

**BIOVEC, has conducted four pilot plants AINIA, WB Engineers, Pata Negra and Ocyener biogas biogas.**

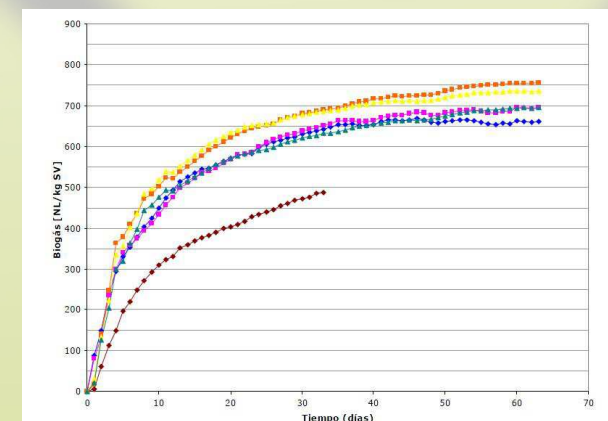
**Biovec simultaneously and has participated in monitoring and testing of different test biogas generation.**



**Planta AINIA**



**Planta Biogas biogastur**



**Ensayos potencial de prod.  
En laboratorio externo (AINIA)**

## EQUIPMETS

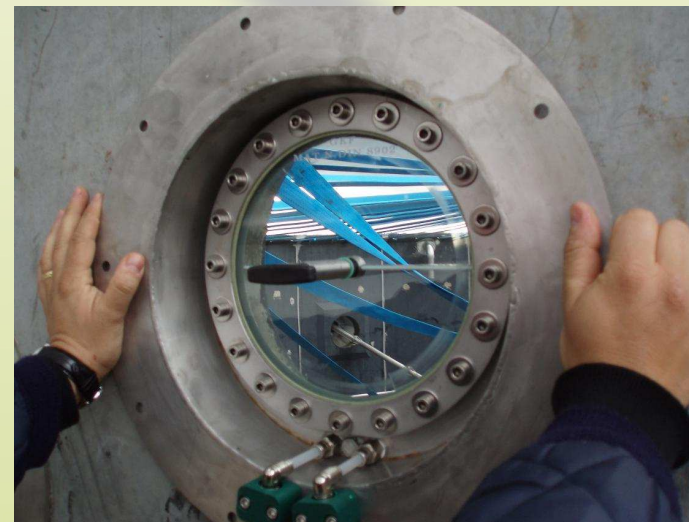
**BIOVEC, dimensions, designs and manufactures special equipment for biogas plants, such as biological desulfurization systems, plant automation and control or peepholes.**



**Desulfurization**



**Milligas counter**



**glasses**

## OTHER

BIOVEC, is currently conducting a study to a region of China on the use of biogas and a new pilot biogas plant.

At the same time Biovec specific equipment performs different biogas plants and has developed an automation system of biogas plants.

We have experience in conducting feasibility studies and presentations on biogas technology and composting.

