

***'The company has easily improved their efficiency by 10%.'***



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**Investment**

€ 145.000

**Savings**

€ 153.000 p/y

2.160.000 MJ/y

**Other benefits**

**Environmental benefits**

**Maintenance savings**

**Awareness**

## Efficiency in boiler and processes

This company is fresh meat producer. They carried out measures regarding steam production and steam use in some main processes. The type of measures taken were technical and in the management of the setam (improvement of the management and control systems and change of fuel) that resulted in annual energy savings of 2.160.000 MJ equivalent to 153.400 €.

### Why we did it?

The main objective was to gain benefit from a better use of the steam production and use of steam in the production process. Several main processes (as sterilization and scalding) have a high thermal energy consumption and it was needed to monitor and improve the overall system.

Firstly, it was changed the timing when the boiler is switched on

and off reducing the overall consumption. Also the fuel selected was natural gas instead of oil, with a more modulating burner which increases the efficiency and helps to the better management of the steam production and use. These measures increased the efficiency by approximately 7%.

Secondly, it was analysed the specific consumption in the scalding and sterilization units,

which are high energy consumers. The use of steam was reduced by 3% due to more efficient use of steam in these processes.

Due to these measures, the production and maintenance team are now more aware on the steam energy efficiency and management needs. The company has reached better environmental ratios and reduced their energy costs. •

