

Companies connection to energy efficiency

The company has a strong commitment with environmental, quality issues as well as energy efficiency. It holds a ISO 22000 management system.

Steam system

The steam generation is provided by steam boilers 7.000 kW fed with natural gas. Main consuming processes is the juice concentrating process needed to prepare the final commercial product.

Steam system problems identified

No major problems were identified in the use of steam, and the focus of the steam audit was in energy consumption and processes improvement. The company has been developing measures along the last years with this aims.

Proposed energy saving measure(s), investments, and expected results (in figures)

To favour the final implementation, the main steam energy management measures were packed in two groups and proposed to the company with overall savings estimated in 2.200 MWh/year:

- A new steam boiler with higher efficiency to support the plant efficiency and reliability: the simple PayBack is 7 years
- Set of improvements in the current steam generation (economizer, desgasifier, valves, pumps and control adjustments): the estimated simple PayBack is 2 years.

Implemented proposed energy saving measure(s), investments and results achieved (in figures)

By the time of Steam_UP project the company is developing the detailed engineering for the renovation of the steam boiler supported by the Steam_UP team. It is likely the new equipment will be commissioned by 2018.

Achieved and/or expected Non Energy Benefits (NEBs) as result of implemented and/or proposed measures and investments involved

The key NEBs are related to CO2 emissions mitigation, improvement in steam plant reliability and better process management.

Involvement of internal stakeholders

The company has a tradition of improvements in energy efficiency and product quality with great efforts. Since the project start the management team lead by the plant manager were involved in the project to gain the most benefit from the audit and auditors knowledge.



Spain

Drink sector

Fruit juice

200 employees

Total proposed investments

€ 360.000

Total Savings estimated

2.200 MWh

Non Energy Benefits

CO2 reduction

Steam plant reliability

Better overall energy management