

### Companies connection to energy efficiency

The company has opted for the certification of the environmental management system, safety, health, welfare and sustainability in the UNE standards: EN ISO 14001: Environmental Management Systems and OHSAS 18001 Specification: Systems of Health and Safety management. GSK is validated according to Regulation (EC) 1221/2009 of the European Parliament and the Council of 25 November 2009 on the voluntary participation of organizations in a community environmental management and auditing system (EMAS).

### Steam system

The steam generation is provided by steam boilers 5.000 kW fed with natural gas from the grid. Main consuming processes are drying processes and heating system. Heat system is supported also by water boilers.

### 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 aimed at energy efficiency.

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

Two main steam energy management measures were proposed to the company with overall savings estimated in 500 MWh/year:

- A new steam boiler with higher efficiency to support the steam production: the simple PayBack is 6 years
- Set of improvements in process (valves, blow down, pumps and heat recovery) to support efficiency: simple PayBack: 4 years

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

By the time of Steam\_UP project the company was much focused in implementation measures in cooling systems and starting to schedule improvements in heating system. Some measures related to heat recovery and process improvements are likely to be implemented at least partially in 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 CO<sub>2</sub> 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 keeping the product quality. Since the project start the managing team were involved in the project to gain the most benefit from the audit and auditors knowledge.



Spain

Pharma products

1. 800 employees

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Total proposed investments

€ 130.000

Total Savings estimated

500 MWh

Non Energy Benefits

CO<sub>2</sub> reduction

Steam plant reliability

Better overall energy management