

Companies connection to energy efficiency

The company have been using cogeneration unit of electricity and steam provided that can guarantee total autonomy of the production process, cost savings and a huge reduction of emissions into the air. Moreover, there is a modern anaerobic biological plant for purifying wastewater.

Steam system

The nominal capacity of the steam system, which consists of a CHP plant equipped with 3 turbogas, 3 heat recovery system generator (HRSG) and 1 steam turbine, is about 90 t/h. The turbogas and the HRSG's post combustion use natural gas as fuel. The steam produced is used for the production process of the paper at two different levels of pressure: MP (c.a. 16 bar) and BP (about 8 bar), The main consumers is the drying line.

Steam system problems identified

The steam system has a good efficiency, different efficiency measures have already been implemented in the past years and others will follow.

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

Introduction of steam management (4.000 MWh saved, 150.000 euro of investment);
Implement an effective steam trap maintenance program (800-1.000 MWh saved);
Energy efficiency improvement of the CHP plant (costs and savings have not yet been defined).

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

Proposed energy saving measure haven't yet been implemented.

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

All of the proposed measures will improve the overall efficiency of the steam system, lead to lower CO2 emissions and maintenance costs.

Involvement of internal stakeholders

The company is really involved into the implementation of the proposed measures to achieve cost-effective energy savings.



Italy

Paper Manufacturing

Testliner / Wellenstoff paper

70 employees

Total (estimated) Investment

€ 200.000

Total (Estimated) Savings

MWh 4.800

Non Energy Benefits

Lower CO2 emissions

Improved efficiency of the
steam system

Lower maintenance costs