

Companies connection to energy efficiency

The Company has an Energy Manager and an energy team that manages energy items: CHP plant, equipments efficiency, metering progress and implementation, etc.

Steam system

CHP plant for heat and power generation: 9 endothermic engines (27 MW total) powered by natural gas, with 9 heat recovery system generators (HRSG) for the production of technological steam.

Steam at 9 bar and 175°C is used in: 1 centrifugal turbine chiller, 2 steam exchangers 9 bar steam/clean steam, for the production of ultrapure steam for the air conditioning of the clean room, 1 heat exchanger 9 bar steam/hot water to allow, if the heat exchange with the engine parts is not sufficient, the achievement of the specific request (hot water at 85 ° C).

Steam system problems identified

No relevant problems.

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

Installation of new insulation material on condensate recovery pipes: investment cost valued about 15.000 € with energy saving of 1.440 MWh/year (40.000 €/year).

CHP plant revamp: net investment cost valued about 5.000.000 € with energy saving of 3.300.000 Sm³/year (1.000.000 €/year).

Implemented proposed energy saving measure, investments and results achieved

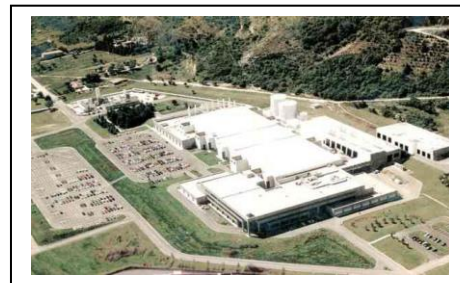
Proposed energy saving measure haven't yet been implemented.

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 time and costs.

Involvement of internal stakeholders

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



Italy

Electronic

Electronic devices

1.500 employees

Total (estimated) Investment

€ 5.015.000

Total (Estimated) Savings

3.315.000 Sm³/year

Non Energy Benefits

CO₂ emission reduction

Reduction of cost and time for maintenance