

Curti Costruzioni

Packaging industry

Main CHP project indicators

Heat capacity (total)	kW _{th}	256
Electrical capacity (total)	kW _{el}	200
Technology	Motor engine	
No. of units	01	
Manufacturer	2G - MAN	
Type of Fuel	Natural gas	
Heat: yearly generation	MWh	840
Electricity: yearly generation	MWh	650
Year of construction	2010	
Total investment costs	EUR	200.000
Financing	Own funds Loans	
State support	Certificates Tax reduction	
Location	Castel Bolognese (Ravenna) – Italy	
Information	http://www.curti.com/	

General description of the case

The customer has decided to install a cogeneration system to reduce the cost of electricity in view of an extension of the factory.

The heat is used for heating of work environments, while the electrical power is totally self-consumed by the property.

Next summer the customer will install an absorption chiller for the production of cold water.

In this way the CHP works longer hours during the year so Pay Back Time is reduced.

Success factors

Italian government support these applications by financing part of the investment.

Moreover Italian rules reward the use of thermal energy based on an incentive called “White Certificates”.

Each certificate corresponds to one ton of oil saved.

Main barriers

Bureaucracy is perhaps the only barrier for CHP applications.

The timing are long.

Conclusions

It's very important to dimension the engine correctly, carefully considering the hours of operation.

If possible, it's better to consider trigeneration to obtain more economic benefits.

Picture

