

CHP in hotel Mons

Hospitality sector

Main CHP plant indicators

Heat capacity (total)	kW _{th}	230
Electrical capacity (total)	kW _{el}	150
Technology	Motor engine	
No. of units	1	
Manufacturer	Ener- G	
Type of Fuel	Natural Gas	
Heat: yearly generation	MWh	944
Electricity: yearly generation	MWh	600
Year of construction	2011	
Total investment costs	EUR	n. a.
Financing	Own funds	
State support	Feed-in Tariff	
Return of investment (payback period)	Years	< 10 years
Location	Ljubljana, Slovenia	
Information	http://www.energen.si	

General description of the case

Hotel Mons decided to invest into a cogeneration unit in order to decrease energy costs and protect the environment and thus follow its efforts for a sustainable development. Because of the special requirements for a low noise level in the hotel rooms, special precautions had to be taken to minimize noise and vibrations in the boiler house. The CHP unit was thus placed on special anti-vibration pads and the boiler house itself was additionally soundproofed. Both, produced heat, which is used for heating and preparation of sanitary hot water, and electricity are used on-site. It is planned, that the system is going to operate approximately 4,000 hours per year. The CHP project in Hotel Mons was carried out by a company Energen, which also took over the maintenance of the system for the next 10 years.

Success factors

By means of legislation or state support for electricity production in CHP plants, the Hotel Mons achieves high savings since all produced electricity is used on-site and the investor receives operational support for the period of 10 years.

Main barriers

Main barriers encountered during the implementation of this project are related to the obtaining of an agreement for the connection of an individual building where CHP is installed to the electrical grid. This procedure namely usually takes a lot of time. Also separate procedures for obtaining declaration and support for the production facility, which can start only after the facility has already been given an operating permit, are time consuming.

Conclusions

Cogeneration can represent high savings and therefore an interesting investment, however, it is very important that the CHP unit is properly dimensioned and that there is a competent partner involved in the project during its implementation and the whole maintenance period.

Picture

