

Industrial hall Riedl

Manufacturing

Main CHP project indicators

Heat capacity (total)	kW _{th}	78
Electrical capacity (total)	kW _{el}	49,9
Technology	Motor engine	
No. of units	1	
Manufacturer	Senergie	
Type of Fuel	Natural Gas	
Heat: yearly generation	MWh	312
Electricity: yearly generation	MWh	200
Year of construction	2011	
Total investment costs	EUR	85.000
Financing	Own funds	
State support	Feed-in tariff	
Return of investment (payback period)	Years	4-6
Location	Maribor, Slovenia	
Information	http://www.riedl.si http://www.megaenergija.si/	

heat production using high-efficiency cogeneration. Since 2010 the company has carried out approximately 20 cogeneration projects, mainly in the service sector. Most of the projects were successfully implemented using a business model of energy delivery contracting (EDC).

In 2011 Megaenergija installed a 49,9 kWe CHP unit also in the industrial hall Riedl. System is as the only heating source operating only during the heating period and all produced heat is used for heating of the industrial hall. Also all produced electricity is entirely used on-site and the remainder needed is bought from the grid. The system entered the feed-in support scheme on 1st January 2012 and the estimated payback period for the project is from 4 to 6 years.

Success factors

The state supports high-efficiency cogeneration as the technology that reduces primary energy consumption via the feed-in support scheme. The scheme is at the moment the main driver for the CHP projects, though for the implementation of smaller units it might be good to introduce more capacity categories as now there are only two: micro (≤ 50 kWe) and small (≤ 1 MWe) units.

Main barriers

There were no major barriers encountered during the implementation of this project. The procedures of obtaining a declaration and support for the production facility from the Energy Agency of the Republic of Slovenia ran smoothly. From the general point of view is the main barrier for the implementation of such projects still a lack of money and also insufficient information about cogeneration among potential customers.

Conclusions

The project proved to be even better than expected. Even in transition periods, when it can happen that the system occasionally produces more heat than needed, the exceeded heat is accumulated in the well designed building shell. So far all expected technical, financial and energetic parameters of the project have been met.

Picture



General description of the case

Company Riedl is a small enterprise specialised for the production of small metal products. The owner of the company has established also a company Megaenergija, which is offering innovative solutions for electricity and