

Challenge

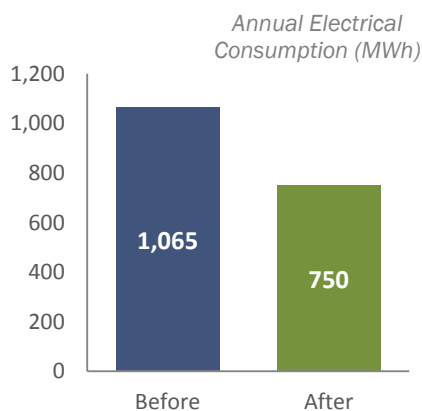
The heating for three buildings owned by the leading pharmaceutical company in Croatia was provided by the district heating system of the City of Zagreb. The 260-meters-long steam pipeline which was connecting the three buildings was in a very poor condition and recorded serious heat losses of approximately 20%. An alternative approach was needed.

Solution

To solve this problem an investment was made in a new gas heating plant of 875 kW of rated power, which serves all three buildings. The gas heating plant consists of four 175 kW outdoor condensing gas heaters and one 175 kW gas absorption heat pump.

Energy Savings – 30%

Investing in a new gas heating plant resulted in energy savings of 30%. In addition to generous energy savings, the pharmaceutical company is now also able to cogenerate 197 kWhth of thermal energy per year from heat utilized from the ambient air.



Implemented through the EU/EBRD WeBSEFF program

Company

Country	Croatia
Sector / Asset type	Commercial (office)
Project type	EE
Main business activity	Energy Services Company (ESCO)

Project Facts and Benefits

Investment value	EUR 280,822
Loan amount	EUR 212,500
Energy savings	315 MWh/yr
Decrease of CO ₂ emissions	183 tonnes/yr
Equivalent cars removed	40
Equivalent trees planted	4,740
Annual monetary savings	EUR 41,056/yr
Payback period	6.8 years
ROI	15%