

Innovation meets tradition

ELECTRICITY AND HEAT FOR TRADITIONAL SCHOOL IN BOLOGNA



The Don Bosco Institute of the Madonna di San Luca in Bologna is one of the most famous public schools in Italy and was founded in the year 800. In the process of renewing the heating system, a diesel boiler was replaced with a cutting-edge combined heat and power plant from 2G.

The patruus provides dependable heating for the ancient school building.

The patruus 100 from 2G runs on natural gas and is installed in an existing building. The CHP has an electrical output of 100 kW and a thermal

output of 130 kW. To keep noise down, the unit was installed in a sound cap which reduces sound emissions to roughly 65 dB (A) at a distance of one metre from the plant. Supplying the school with heat is especially important in the winter. This makes it understandable that the installation called not only for a high-performance system, but also one requiring very little maintenance to make sure that the school can run without interruptions.



The investment will pay off in just a few years.

The patruus 100 is a reliable and highly efficient system with a total efficiency rating of nearly 85 percent. The plant supplies a good three quarters of the heating energy the school needs. 70 percent of the electrical energy which the CHP generates is for internal consumption, while the remaining 30 percent is fed into the public grid.

Even though the combined heat and power plant is only operated from October to May, investors estimate a payback period of just five years.



Istituto Salesiano Bologna

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patruus 100

Natural gas

100 kW electrical

130 kW thermal

Engine room installation

