

CUSTOMER STORY: MONTEBELLO & city's, ITALY

IMPROVED PUBLIC LIGHTING WITH ECONOMIC BENEFITS

When the Municipality wanted to improve its lighting infrastructure, significantly reduce energy costs and CO2 emissions, and get rid of environmentally hazardous lamps, it turned to VIMALUX



CUSTOMER Consorzio Stabile Energia B.

LOCATION Lombardy, Italy

INSTALLATION 1.944 light sources

SOLUTION rental 5 years period

67% annual reduction in electricity consumption

Less than 4 years payback period
5 years warranty period
12.8 years product lifetime
252 tons annual reduction in CO2 emissions

VIMALUX



CHALLENGE

The Municipalities had a lighting infrastructure that consisted mainly of inefficient and environmentally hazardous mercury vapor lamps and sodium vapor lamps. The lighting system did not meet the required levels of illumination and needed continuous and costly maintenance.

The municipality's main objectives were to increase the overall lighting levels, giving citizens a higher degree of perceived security, and reduce energy consumption by more than 67%. The City Council wanted to have total control of the new lighting system to reduce maintenance costs and management.

All this had to be achieved under the financial constraint of not increasing spending on street lighting and providing a return on investment within the warranty period of the new luminaires.



SOLUTION

An entirely new lighting plan was designed using 1.944 streetlights from the VIMALUX SIRIUS series and are ready for implementation of the cloud-based remote management system CityManager. Completely dimmable streetlights were chosen in versions from 30W to 170W, depending on the classification of the road and the position of the luminaire.

The use of asymmetric optics allowed a uniform distribution of light to improve visibility for drivers and perceived safety for pedestrians. The relatively low color temperature of 3200K (White-Yellow) was selected to give the light a familiar tone.

Several historic buildings were illuminated by 16 projectors to maintain the impression of the historical architecture, but with a better light distribution and very low energy consumption.

The cloud-based remote management system **CityManager** can be configured and installed to maximize savings and energy efficiency – giving the real-time status of each luminaire and allowing easy remote control.



BENEFITS

The level of illumination throughout the city was significantly improved. The precise optics eliminated light pollution to homes adjacent to the street, a former problem in some areas.

Electricity consumption was reduced by **67%**, exceeding the target, and maintenance and management costs have been reduced thanks to the high quality products and controllable system.

The payback period is less than 4 years, well within the warranty period of 7 years. The technical lifetime of the installation is calculated to be 23.8 years, more than 6 times the payback period. The project has given the Municipality an immediate positive cash flow that can be used in other municipal projects.



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Every day we work to deliver a better service for our inhabitants and getting tools like LED lighting that we can monitor and control is a big help. The generated energy savings are used for other relevant projects and better lighting is something that benefits everybody and also makes our municipality look better.

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Mr. Zerbo from CSEL



Start benefiting from a new
lighting infrastructure. Contact us today!

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