



GREEN LIGHT GOOD PRACTICE CASE STUDY

GL PARTNER: PREDILNICA LITJA D.O.O., LITJA (SLOVENIA)

PROJECT TITLE: RENOVATION OF LIGHTING SYSTEM

SECTOR: INDUSTRIAL (TEXTILE)

Predilnica Litja d.o.o. is a technical textile manufacturing company. With more than 36,000 m² of total illuminated area lighting system represents an important part of company's infrastructure. In order to reduce electricity cost and improve lighting conditions company decided to carry out a complete renovation of existing lighting system. All renovations (already made and planned) consist of new 18 mm diameter fluorescent tubes (T5) equipped with electronic ballast (instead of 26 mm tubes with magnetic ballasts). Estimated lighting electricity savings (already achieved) are 460,000 kWh/year. Estimated lighting electricity savings (including planned renovation) are 1,597,000 kWh/year.

PARTNER

Predilnica Litja d.o.o. is a producer of special yarns and threads from natural and artificial fibres blends. Due to specific type of production the lighting system is of significant importance for the quality of production process (colour distinctness).

CONTEXT

Refurbishment of entire lighting system in Predilnica Litja d.o.o. is an ongoing process, started in 2007 and is expected to be completed in 2008. The primary goals of the project are energy savings and improved lighting conditions in the working areas. The Green Light programme is very important for the company as it is being considered as valuable public recognition for their successful project.

EXPERIENCE OF THE PARTNER

Partnership process

After performing an external energy audit in beginning of 2007, which showed that there is a significant saving potential in lighting infrastructure, company decided to carry out a complete lighting system renovation. At the same time GL national contact point (who was also an energy audit performer) attracted them to participate in Green Light programme in order to get a public recognition for their achievements.

Technical data

Lighting system mainly consists of fluorescent lamps. Before renovation company used 26 mm tubes (T8) with magnetic ballasts, now they use



new 18 mm diameter fluorescent tubes (T5) equipped with electronic ballasts.

COST AND BENEFITS

Economical & Environmental

The total illuminated area of the company/site is 36,267 m² (this area consist of different buildings). In the year 2007 the company has already upgraded (renovated) lighting in surface area of 5,000 m². According to the energy audit results company foresees further lighting renovation in the next years to cover additional surface of 14,700 m². After complete renovation company will achieve 37% reduction in use of electricity for lighting systems (in 2007 already achieved 11%). In terms of energy saving is approximately 1,600 MWh per year (or 800 tons of CO₂ per year saved). Project pay-back time is envisaged to be 3-4 years, which is adequate result for such type of renovation/project.

EVALUATION AND OUTLOOK

Company has evaluated its decision to make lighting renovation as an important step towards higher energy efficiency of the entire plant. As lighting system is of the key importance for the company's production they will continue with further improvements taking into account best available practices and/or lighting technologies.

For the company the partnership in Green Light programme is being considered as notable public recognition for successful project.

FURTHER INFORMATION

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