CASE STUDY OF ENERGY SAVINGS IN COCA COLA BOTTLING WAREHOUSE BOLLIGEN, SWITZERLAND

ABSTRACT

The Coca Cola Bottling warehouse in Bolligen Switzerland is one of the storage warehouses for Coca Cola AG where trucks and bottled drinks are stored before delivery to retailers and shops. Lighting of the warehouse is needed 18 hours a day as there is no natural light sources.

CLIENT PROFILE

Coca-Cola Beverages AG is Switzerland's leading supplier of alcohol-free beverages. It employees 1,300 staff at its sites in Brüttisellen/Dietlikon, Bolligen and Vals who ensure Coca-Cola's 30-plus products are available everywhere in the highest quality. The Coca-Cola organization has been represented in the Swiss market with its own bottler since 1936. Coca-Cola Beverages AG looks after production, distribution and trade marketing.

BUSINESS NEED

The Coca Cola Bottling Bolligen warehouse is located in a ground floor area that has no natural light. It is lit by 600 x 58 Watt fluorescent lamps for 18 hours on working days at an annual electricity cost in the region of 30,000 Francs.

SOLUTION

The LEC was installed in the warehouse on all the lighting circuits in order to achieve maximum savings. The LEC maintained a high savings rate despite the fact that 45% of the existing fluorescent lamps were already fitted with electronic ballasts, which is already considered an energy efficient system.

RESULTS

Current consumption was reduced by 19.6%. The Lighting Energy Controller (LEC) has helped the Swiss subsidiary of the American multinational save 6,889 Swiss Francs per year on its lighting costs. For a capital investment of 12,000 Francs, the return on investment (ROI) is less than 2 years.

Annual electricity consumption for lighting	CHF 30 351
Total annual savings	CHF 6 889
on electricity – 19.6%	CHF 5 967
on lamp replacement	CHF 922
Capital expenditure excluding VAT	CHF 12 200
Return on investment	Year 1.7