

## CASE STUDY OF ENERGY SAVINGS IN GREEN CLUB SPORTS CENTER SWITZERLAND



### ABSTRACT

The Green Club in Lausanne Switzerland offers customers everything imaginable in sporting and leisure options, including restaurants and conference rooms. These extensive facilities require high quality lighting during day and night time operation.

### CLIENT PROFILE

The Green Club is a huge sports center in the suburbs of Lausanne. The facilities include 6 indoor and outdoor tennis courts, 4 badminton courts and 3 squash courts, 1 weights room and 1 fitness room, 1 covered swimming pool, 1 sauna, an enormous car park, a restaurant and well laid-out terrace, as well as a conference room.

### BUSINESS NEED

To obtain a significant reduction in its lighting bill, without affecting the quality of the lighting which is essential for the customer's good sporting practice. The management also wanted to keep the capital investment at a minimum and did not want to embark upon a costly light replacement operation.

### SOLUTION

Connecting all the Green Club's lighting systems to the LEC makes it possible to reduce the lighting costs by CHF 10,968 for a savings of 22% on electricity consumption. Consequently, the pay-back time was less than two years. However, the Green-Club's managers opted to lease the equipment first and purchase it later, as they wanted to take advantage of the LEC's efficiency at the earliest opportunity.

### RESULTS

The LEC achieved 22% reduction in electrical consumption with an annual savings of 10,968 Swiss Francs. The original investment of 20,000 Swiss Francs in LEC equipment achieved an ROI of less than two years.

Annual electricity consumption for lighting	CHF 33 640
Total annual savings	CHF 10 968
on electricity – 22%	CHF 7 401
on lamp replacement	CHF 3 567
Capital expenditure excluding VAT	CHF 20 000
Return on investment	Year 1.8