

PROJECT DESCRIPTION

Zorlu Yapi Yatirim A.Ş. intends to carry out energy saving project within the Zorlu Center. The Energy efficiency project consists in the upgrading of a traditional lighting system to a comprehensive LED lighting system. The location of the proposed energy efficiency project is in the Marmara Region, of İstanbul.

Zorlu Center EE project will generate an energy saving of 10,330,490 kWh/year, which is equivalent to a USD 959,732 decrease in total electricity expenses and a USD 718,536 decrease in operational and maintenance expenses totalling USD 1,678,268 savings in the operational expenses of the company. The generation of electricity savings will reduce electricity usage from the national grid and enable the reduction of 5,640 tCO₂/year.

CARBON FINANCE

Zorlu Energy Efficiency project is planned to proceed without carbon finance.

HEALTH, SAFETY and ENVIRONMENTAL KEY ISSUES

- Lighting Source
- Lighting controls and zones
- Security plan for the workplaces

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- All LED lamps must comply with the safety standards and all fixtures and protection degree (IP) of each single lighting shall be compliant with the work environment,
- TS EN 1838 Lighting-Emergency lighting applications should be followed,
- It is recommended to follow the indications of the EN 50110-1 ed. 2 - "Operation of electrical installations,
- All collective protective devices are adequate and provided should be CE marked
- During installation it is recommended to follow CENELEC HD 60364 and CENELEC EN 61439

GENERAL INFORMATION

Project Location	Istanbul Province
Technology	Energy Efficiency
Annual Electricity Saving	10.33 GWhel/year
Annual CO₂ Reduction	5,527 tCO ₂ /year

TIME SCHEDULE

Start of Construction	June 2012
Expected Commercial Operation	March 2013

FINANCIAL PARAMETERS

Total Project Cost	EUR 14,996,208
MidSEFF Loan	EUR 14,795,685
Payback Time	3.5 years
Internal Rate of Return	27.78%

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