

Challenge

A Macedonian private sector company specializing in construction of residential and non-residential buildings won the public tender for reconstruction of a student dormitory in the FYRo Macedonian capital Skopje. The dormitory, which was constructed in the 1970s, was in acute need of well-conceived energy efficiency improvements.

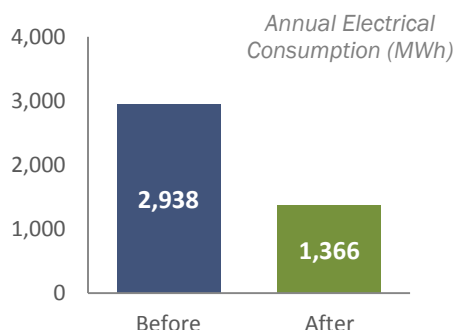
Solution

The investment included a range of energy efficiency measures in the dormitory:

- replacement of existing doors and windows
- thermal insulation of roofs, floors, and walls
- reconstruction of the heating system
- replacement of the lighting system
- replacement of an elevator and of cookers and refrigerators in rooms

Energy Savings – 54%

Implementation of the selected energy efficiency measures produced energy savings of 54%, at the same time providing much better comfort for the students.



Implemented through the EU/EBRD WeBSEFF program

Company

Country	FYRo Macedonia
Sector / Asset type	Residential (dormitory)
Project type	EE
Main business activity	Construction of buildings

Project Facts and Benefits

Investment value	EUR 479,176
Loan amount	EUR 477,094
Energy savings	1,572 MWh/yr
Decrease of CO ₂ emissions	2,159 tonnes/yr
Equivalent cars removed	460
Equivalent trees planted	55,950
Annual monetary savings	EUR 113,684/yr
Payback period	4.2 years
ROI	24%