

Challenge

The quality control facility of the leading Macedonian pharmaceutical company in Skopje was built in the 1970s. Over the years, the integral building systems (heating and cooling system, lighting system, etc.) deteriorated and became heavy energy users, which further burdened the company's budget.

Solution

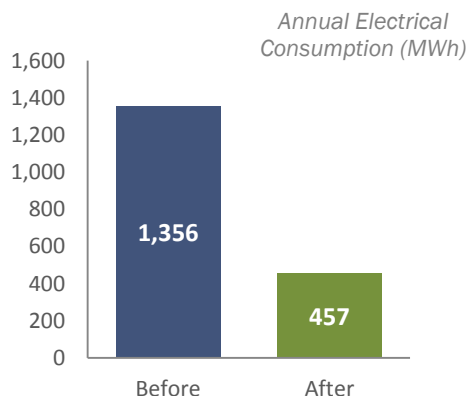
The company decided to invest in several sustainable energy measures in order to improve energy efficiency and save money:

- replacement of lighting system
- replacement of heating and cooling system
- new elevator
- solar thermal system for preparation of hot sanitary water
- thermal insulation of walls, windows, floors and roof

Energy Savings – 66%

Energy Production – 46 MWhth

The implemented EE and RE measures resulted in energy savings of 66% and a renewable energy production of 46 MWhth annually.



Implemented through the EU/EBRD WeBSEFF program

Company

Country	FYRo Macedonia
Sector / Asset type	Commercial (office)
Project type	EE/RE
Main business activity	Pharmaceutical products

Project Facts and Benefits

Investment value	EUR 500,000
Loan amount	EUR 500,000
Energy savings	899 MWh/yr
Energy production	46 MWhth/yr
Decrease of CO ₂ emissions	344 tonnes/yr
Equivalent cars removed	74
Equivalent trees planted	8,920
Annual monetary savings	EUR 52,741/yr
Payback period	9.5 years
ROI	11%