

## Challenge

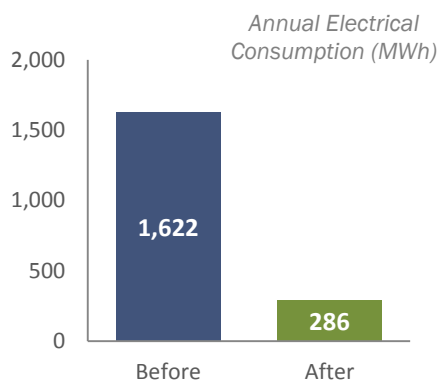
Streets of this municipality in eastern Serbia with a population of approximately 13,000 were illuminated by a combination of fluorescent, sodium, and metal halogen lamps and spotlights, which consumed much energy and required significant repair efforts.

## Solution

To reduce electricity and maintenance costs, the municipality decided to replace its 2,167 energy inefficient lamps with the new LED lamps. By implementing this project, the municipality successfully switched from a system with installed power of 395.7 kW to a new system which totals only 69.8 kW of installed power.

## Energy Savings – 82%

Replacement of the public street lighting results in energy savings of 82%, while at the same time offering better brightness, increasing the working efficiency across a wide range of operating temperatures without significant degradation, and lowering maintenance costs.



Implemented through the EU/EBRD WeBSEFF program

## Company

Country	Serbia
Sector / Asset type	Public sector (street lighting)
Project type	EE
Main business activity	Public administration activities

## Project Facts and Benefits

Investment value	EUR 359,028
Loan amount	EUR 119,676
Energy savings	1,336 MWh/yr
Decrease of CO <sub>2</sub> emissions	1,112 tonnes/yr
Equivalent cars removed	240
Equivalent trees planted	18,390
Annual monetary savings	EUR 146,600/yr
Payback period	2.5 years
ROI	41%