

**UNITED STATES AGENCY FOR INTERNATIONAL  
DEVELOPMENT**

**Enterprise Energy Efficiency (3E) Project**

IQC Contract # EPP-I-00-03-00004-00

Task Order # 12

***TREBINJE PP STREET LED LIGHTING FACT SHEET***

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Implemented by:  
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# USAID | BOSNIA-HERZEGOVINA

FROM THE AMERICAN PEOPLE

## Energy Efficient Street Lighting Project in Trebinje

The Trebinje Municipality is interested in reducing energy consumption and to that end signed



the Covenant of Mayors. In achieving the targeted reduction in overall energy consumption, reduction in street lighting consumption plays an important role. This pilot project represents improvement of the energy efficiency of the public lighting in three streets in the downtown area of Trebinje. The existing lamps were replaced with Light Emitting Diode (LED) lamps and a saving of up to 70% in energy consumption is made. Through this project 3E can demonstrate energy efficiency measures for public lighting for towns that use old and/or

obsolete technology, which is very common in Bosnia and Herzegovina.

Implemented Energy Efficiency measures:	
<ul style="list-style-type: none"> <li>Replacement of existing street lighting with LED street lights</li> </ul>	
Contributions:	
<b>USAID 3E</b>	<b>KM 39,347</b>
<b>UNDP</b>	<b>KM 39,347</b>
<b>City of Trebinje</b>	<b>KM 31,149</b>

The main problem of the public lighting system in City of Trebinje was the high cost of the outdated, high consumption and inefficient technology used for lighting. The majority of street light lamps have mercury light bulbs, and the remaining mainly have halogen and sodium bulbs. Because of these inefficient technologies, 95% of the electricity in the public lighting system was lost in the form of heat energy. Also, the old light bulbs frequently burned out due to the technical characteristics and age. The only way to decrease the costs was to **increase the**

**efficiency** of the lights used in the public street lighting system by **changing the lighting technology** used.



### Expected results:

- **Reduction of energy consumption by 70%**
- **CO2 emissions reduced by 30t CO<sub>2</sub>/year**
- **Raising awareness** of citizens about the benefits of energy efficiency measures

The lynchpin of the USAID Enterprise Energy Efficiency (3E) Project is the implementation of 17 Pilot Projects throughout Bosnia and Herzegovina. Mature and proven energy efficiency technologies that can be implemented in BiH with payback periods of typically less than seven years are being used. The consumer recovers the savings in lower bills for heating, electricity and water and continues to reap the benefits after payback. For the implementation of these pilot projects, local companies are used to carry out the works, which also helps support the small and medium enterprise (SME) sector and establish new jobs.

The USAID Enterprise Energy Efficiency (3E) Project is a USD 4.2 million program for the promotion of Energy Efficiency technologies through the development of pilot projects in buildings that are co-financed by the public and private sector. USAID 3E is working on increasing the capacity building of municipal partners from the public sector as well from the small and medium enterprises. The project also works on increasing the public awareness about the benefits of energy efficiency. To date, the U.S. Government, primarily through USAID, has provided almost \$1.6 billion in assistance to support economic, democratic and social progress in BiH.