

**ENERGY EFFICIENCY THROUGH STREET LIGHTING**

Country: Kyrgyz Republic City: BISHKEK	Status: COMPLETED Application approved: 05 NOV 2012	Key Sector(s): ENERGY EFFICIENCY
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**PROponents** | **Geography and Population**

<p>Mr. Murat Ismailov First Vice Mayor Bishkek City Municipality</p> <p>Phone: +996 312 62 58 26 (tel.) Email: imurat@list.ru</p>	<p>Mr. Tilek Jeembaev Director, City Development Agency Bishkek City Municipality</p> <p>Phone: +996 312 32 52 45 Fax : +996 312 325 325 Email : arv-meria@rambler.ru tilekjem@mail.ru</p>	<p><b>Area: 127 km<sup>2</sup></b> <b>Population: 854,000</b></p> <p>Bishkek is the capital and the largest city of Kyrgyz Republic. It is located in the northern part of the country in the Chuy Province, at the foothills of Tien Shan mountain range.</p> <p>Founded in 1852, Bishkek features a robust system of public streets and blocks on a 250m grid, with a number of beautiful tree-lined boulevards, grand civic spaces, plazas and parks.</p>
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<b>Central State Partner</b> Ministry of Economy; First Deputy Prime Minister	<b>Other Partners</b>
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**KEY CITY DEVELOPMENT ISSUES**

Bishkek's last comprehensive street lighting development plan dates back to the 1980s. Since then, there has been no new direction concerning expansion of Bishkek's street lighting system in line with the City's expansion plans. As a result, existing street lighting conditions are very poor, with only 47% of existing lighting points in the City being operational. This lack of effective street lighting in Bishkek has resulted in social insecurities such as house thefts and street robberies, as well as poor road safety due to poor visibility during night time.



**DETAILS OF COOPERATION**

CDIA supported activities include:

- Consulting support for the preparation of a PFS on the implementation of an energy efficient street lighting rehabilitation, replacement and investment program that would improve public safety and significantly reduce energy consumption;
- An assessment of the potential for private investment in a PPP arrangement for the installation and operation of energy efficient lighting.

**Intervention Areas** Source of Maps: Wikipedia.org



Low visibility on the streets of Bishkek at night (left)  
Malfunctioning street lights (right)

**EXPECTED DEVELOPMENTAL IMPACTS**

- Increase sense of security in Bishkek City, particularly safety for children, women and the elderly with increase visibility arising from the rehabilitation and installation of improved street lighting;
- Improve road safety by reducing the number of traffic accidents caused by poor visibility;
- Better control of unwanted spill lights and reduced light pollution in residential areas;
- Reduced emission of CO2 and other GHG from current levels, through replacement of mercury lamps with LED lighting.



General Development Plan of Bishkek City by 2025

<b>PROJECT PERIOD</b>	NOV/2014 - OCT/2015	<b>EXPECTED INVESTMENT FOLLOW UP</b>	
<b>CDIA SUPPORT</b>	146,693 US\$	Est. infrastructure investment value	32 mil US\$
<b>CITY CONTRIBUTION</b>	70,000 US\$ (in kind)	Potential sources of financing	
		EBRD, Private Sector	