


Eco-friendly Public Lighting – Komotini, Greece

Keywords	Eco-friendly - public lighting, energy efficiency, money savings												
Main photos	 												
Objectives of the action	Replacement of old public lighting with a new one, more efficient and eco-friendly.												
Description of the action	The Municipality of Komotini has decided to change the old and energy consuming public lights with new ones that consume less energy. The action was first applied to the central square of the city and it will be later applied to other non-residential premises such as main streets and public buildings.												
Results / Achievements	<ul style="list-style-type: none"> ▪ Less CO₂ emissions, since it is being consumed less energy. ▪ Lamps with better specifications (prolonged lifetime, better standards, etc.). ▪ Better quality of the illuminating light. ▪ Lower cost of overall services. ▪ Money savings. <p>The energy consumption of the former lighting system from September 2009 to January 2010 was 17.228kWh and the energy consumption of the new lighting system for the same period a year later (from Sept. 2010 to Jan. 2011) is 12.487 kWh. That translates into 4.741 kWh being saved, which means the use of electricity is diminished by 27.5%. Since the kWh costs 0.14090€, 668€ have been saved. If we estimate the annual benefit, it rises about to the amount of 2.000€.</p> <table border="1"> <thead> <tr> <th>PERIOD</th> <th>kWh</th> <th>COST</th> <th>REDUCTION</th> </tr> </thead> <tbody> <tr> <td>09/2009 - 01/2010</td> <td>17,228</td> <td>2,427.42€</td> <td></td> </tr> <tr> <td>09/2010 - 01/2011</td> <td>12,487</td> <td>1,759.41€</td> <td>27.5%</td> </tr> </tbody> </table>	PERIOD	kWh	COST	REDUCTION	09/2009 - 01/2010	17,228	2,427.42€		09/2010 - 01/2011	12,487	1,759.41€	27.5%
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Friendly advice for replication	The results from such an effort have a positive impact on both economic and ecologic levels. On top of the smaller amount of the consumed energy that leads to less CO ₂ emissions, there is also a great amount of money that is being saved throughout the year.												
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