



Public Lighting in Greece

CRES



Objectives

Public lighting represents a significant share of electricity costs of European municipalities, accounting for up to 60% of their budget.

The replacement of the existent lighting system in Municipalities is usually performed through **Energy Performance contracting**.



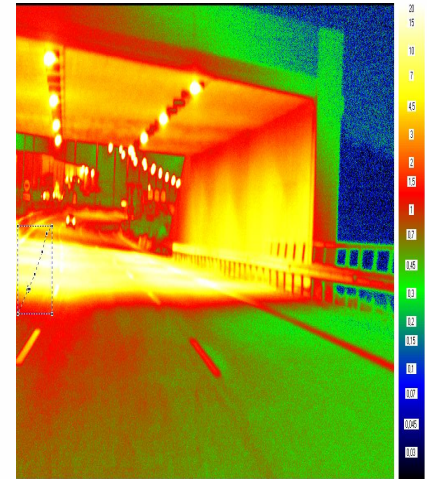
Methodology

→ Phase A. Implementation of **feasibility study**.

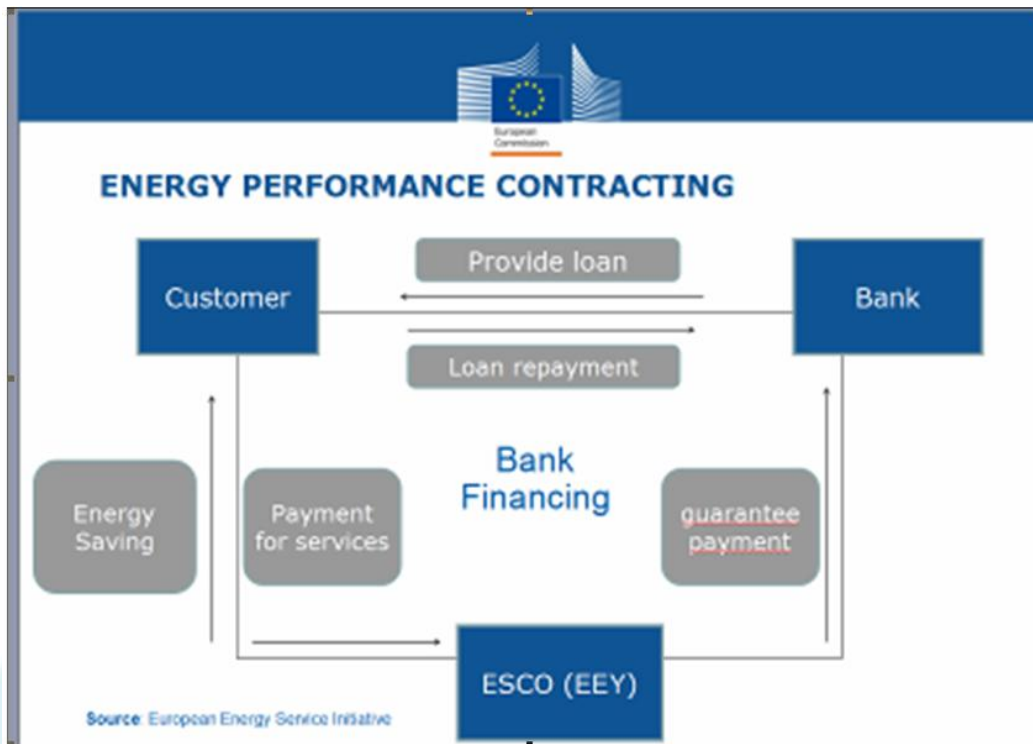
- The total cost of lighting based on existing luminaires and on LED lighting systems is defined.
- The cost of the replacement investment is determined.
- The expected cost savings for the entire life of the project.
- For the determination of total operating costs, will take into account the cost of energy and maintenance costs.
- Determination of funds

→ Phase B. Competition is carried out from the Municipality for contractor who will implement the project.

→ Phase C. Replacement of the existing lighting system with the new one (i.e. LED technology).



Financial resources



Results on energy saving in Municipalities in Greece



The energy saving caused by the replacement of the existing lighting system has been estimated in **Municipality of Kifisia** about 72% (1.186.213 kWh vs 4.259.082 kWh annually, and 1.305 tn CO₂ vs 4684tn CO₂), reducing the cost for lighting about 457.000 €.

The energy saving caused by the replacement of the existing lighting system (according to EN 13201) has been estimated in **Municipality of Larissa** about 490.711 kWh.



THANK YOU

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