

LITES: Led-based intelligent street lighting for energy saving

The main objective of the LITES project is to prove in real life experimentation that intelligent street lighting using solid-state lights LED drastically reduces energy consumption. The lighting service delivered is compliant with road classes CE2-CE5, S- and A- according to the standard of EN13201. That means that our device can be installed in secondary street, commercial access, allotment, pedestrian way, cycle track. It is compliant with II electric standards for luminaires general requirements and tests as well. The core element of the solution is the dimming of the lamp depending on the environment; a set of embedded sensors measure ambient light, temperature, current, and detect motion. Output data of sensors is then processed by the embedded intelligence allowing optimum regulation of light levels. The members within the consortium have been carefully selected to cover the entire value-chain of the project and the standardisation as well. They are all convinced about the prosperous future for this technology, its significant energy saving potential up to 70 %, environmental and economical benefits and the increased level of traffic safety for the public. The objectives will be achieved by the manufacture of a lantern specially designed to receive the LED array and the embedded intelligence. The piloted, full members of the consortium as well, will procure their sets of lanterns to a subcontractor of the consortium in charge of the industrialisation of LITES. To obtain significant change in the demand for intelligent street lighting, current facts and results about LITES will be presented in conferences, in fairs, in scientific and non-scientific magazines, on website, in three video presentations on technical, financial, and organizational issues on LITES technology implementation. Each video will gather the experience in four pilot sites. There will be developed the adapted versions for each pilot country (France, Portugal, Latvia, and Poland). The adapted version will include the introduction presented by local expert from LITES team. The European content will be complemented with subtitles in LITES partner country language.

Project ID card

- Funded under: [ICT Policy Support Programme](#)
- Area: ICT-PSP.2008.2.1 - ICT for energy efficiency in public building and spaces, including lighting
- Total cost: €2.56m
- EU contribution: €1.28m
- Project reference: 238916
- Execution: From 01/12/2009 to 31/05/2012
- Project status: Closed
- Contract type: ICT Policy Support Programme PB Pilot Type B

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Participating partners:

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POLITECNICO DI TORINO	ITALY
Gmina Piaseczno	POLAND
UNIVERSIDADE DE AVEIRO	PORTUGAL
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