EDISON: Energy Distribution Infrastructure for Ssl Operative Networks

The EDISON Pilot Actions aim to demonstrate, under real operational conditions, that a smart lighting system improves energy efficiency, reduces CO2 emissions and encourages the use of small-scale renewable energy sources in European public buildings (e. g. schools, museums, administrative offices, hospitals, etc.). The Pilot Actions are based on the use of Solid State Lamps (SSLs) combined with a particular method of providing power to them, in order to realize a Smart Energy Platform (SEP), mainly aimed at delivering an efficient lighting system. The SEP accommodates advanced ICT components and systems (e.g. smart metering, power electronics, mechanical/electrical sensors and actuators, etc.), that are designed to directly contribute to reducing energy losses and consumption. It integrates fine-grain sensor and control technology with a low voltage DC-powered network of highly efficient LED fixtures. This combination is able to provide more than 60% reduction in ongoing electricity costs, and is also able to reduce building maintenance costs. The capabilities of the proposed system will allow facilities managers to optimize their energy conservation strategies such as: dimming, daylight harvesting, demand response, peak reduction and activity sensing, by controlling non-critical lighting in a premises without disturbing its occupants. Measurement and analysis tools and metering indicators of energy performance, acting to demonstrate clear energy savings, have a relevant role in the Pilots. The goal of the experimental actions is to validate the effectiveness of the proposed ICT (SEP) solution for smart lighting, to serve as showcases to these technologies, and to facilitate their wider uptake and replication.

Project ID card

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