

Project no. 339-013

Solar cell-driven LED lights in urban equipment

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This project will integrate LED light sources, solar cells, batteries and electronics for lighting to create a sense of security around outdoor equipment such as benches, tables, waste stands, cycle racks and urban signs. This type of equipment may be a financially attractive alternative to wired-in, electrically-powered uplighters and bollards.

Results:

The cooperation between four teams of partners has created seven new items of Danish urban equipment at design and concept level, developed innovative solar cell/light units and tested a selected product with Albertslund local authority.

It has been verified in technological terms that if the best technical components available on the global market are used – and if these are constructed and controlled intelligently by means of electronics – the energy targets aimed at can be attained within very few years.

This project has created a foundation which is good in terms of energy, and aesthetically pleasing, for further development and production of new Danish urban elements with integrated technology in the form of energy-friendly, carbon-neutral lighting.

A lot of awareness has been created in the general public and among several of the future influences (landscape architects/local authorities) due to, among other things, newspaper articles, exhibitions/trade fairs and personal visits. Moreover, the project has gained recognition as Erhvervsbladet's (Danish business daily) best entrepreneur concept of the year and the Solar Prize of the Year from Copenhagen local authority, as well as a nomination for the electricity research award "ELFORSK Prize" for 2008.

Albertslund local authority is the first local authority to have a test section installed with solar cell-driven, illuminated sett paving (small cobblestones).