

Digital Single Market

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LED's safe energy

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--- Posted by Berit Wessler, OSRAM AG, on behalf of the consortium of the FP7 project [SSL4EU](#) [1]

Worldwide almost 20% of the electricity is used for lighting. That corresponds approx. to the total electricity consumption of the EU. LED light sources could theoretically save up to 50% of that electricity. And even more important: lighting offers one of the easiest ways to actually realize that energy saving potential as no huge investments are needed upfront and at the same time users are able to reduce their own energy bill.



In the [SSL4EU](#) [1] (Solid State Lighting for Europe) project, funded by the European Commission, we are ten partners from academia and industry from seven countries and have the aim to tackle the main challenge for a breakthrough of the LED technology. We will develop LED light sources that provide high efficiency and an excellent light quality at an affordable price. This requires research in the field of so-called LED light engines that form the counterpart to the lamps of the traditional world. These comprise an LED module, i.e. multiple interconnected LEDs, and designated electronic components with defined light output and interfaces.

One aim of our aims in the project is to develop spot light LED luminaires based on novel universally applicable light engines which will be applied, e.g., in museum or shop lighting. Acceptance studies are conducted to perfectly match the light spectrum to the user's preferences.

With the occurrence of Solid State Lighting based on LED the lighting market is facing a disruptive technological change. SSL opens up great prospects (bn 110 € market in 2020) for the European lighting industry and in energy saving. We are confident that exploiting the results of SSL4EU will strengthen the competitiveness of the European lighting industry and serve as leverage to push the SME dominated LED luminaire business in Europe.

Two pointers:

[Photonics21](#) [2]

[Green Paper "Lighting the Future: accelerating the deployment of innovative lighting technologies"](#) [3]

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[2] <http://www.photonics21.org>

[3]
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