



European collaboration project to accelerate the uptake of affordable, high-quality LED lamps for consumers

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Eindhoven, Netherlands – A group of 22 leading European companies and academic institutions today announced that they are working together in the “Consumerizing Solid-State Lighting” (CSSL) project, which is partly funded by the European Union and EU countries.

The CSSL project aims to develop technology and application breakthroughs as well as new market approaches in order to speed up the availability of affordable high-quality LED lamps to replace the ordinary light bulb in the home. In this way, the project will help keep Europe at the forefront of LED lamp development and market introduction.

Partnering to deliver consumer benefits

The lighting market is in the midst of a transition toward energy-efficient solid-state lighting (LEDs). This opens up tremendous opportunities in terms of technological development, cost reduction, sustainability and approaches to market. The participants in the CSSL project are committed to cross-industry partnering as the fastest, most effective way to bring the benefits of LED lighting to European consumers.

Targeted breakthroughs

The CSSL project is all about building a European ‘consumer LED ecosystem’ encompassing the entire value chain from LED die and light source through to consumer luminair and lighting controls. The project is focusing specifically on a number of key advances. These include:

- Gallium-nitride-on-silicon (GaN-on-Si) wafer processing, enabling to reduce LED costs
- Mains-compatible LEDs and electronics, enabling to reduce the number of lamp parts
- Dimmer-compatible LED lamp and electronics

In addition to the technology developments, the team is also exploring other ways to accelerate the uptake of LED lamps. With the support of utility companies the ecosystem will gain end user insights and explore new business models that would further fuel growth.

Funding and participants

CSSL is partially funded by the European Commission and the participating Public Authorities within the ENIAC program. The CSSL consortium consists of R&D organisations TNO, M2i, CEA Leti, IMB-CNM (CSIC) & LEITAT as well as research groups at Cambridge University, Catania university & Czech Technical university, semiconductor companies STMicroelectronics, NXP

Semiconductors & equipment manufacturer KLA-Tencor (ICOS), dimmer and controls makers Legrand & Niko, small and medium-sized enterprises Boschman, Archimede QLT, Inteesa, Best Electronique & Wittenburg, as well as Philips and the utility companies ENEL, Electricité De France & British Gas. All together they represent the entire value chain for Consumerizing Solid-State Lighting. The project is scheduled to run for 3 years. See also www.ConsumerizingSSL.eu

For detailed information and business propositions please contact:

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