



Lighting Energy- Photovoltaic and LED lighting solutions

ATI, University of Surrey, Guildford, Tuesday 30 March

The technologies of light (photonics) have a huge impact on the green economy. On one side, photovoltaic solar panels are set to become a viable supplement to electricity generation. On the other side, LEDs can significantly reduce the energy required to light our homes and businesses and avoid the issues associated with fluorescent lighting.

Both these technologies have much in common, both are based on semiconductors, operate at low voltage, need high efficiency, require high initial investment, require new approaches for building integration, are advancing very rapidly and will see huge growth in the next few years.

This event brings together presentations on the current capability of LEDs and photovoltaics. Solutions that are ready to be deployed now and best practice to get the most out of them will be discussed by those with firsthand experience of both markets. Technology in these areas is also changing at a rate more often associated with mobile phones than the built environment. Additional talks will therefore give a glimpse into the future of LED lighting and photovoltaic technology and solutions.

A viable return is key to driving adoption. Feed-in tariffs offer the potential of turning small scale PV into an investment as well as environmental choice. But will the return and visual impact of investing in LED lighting be better, or will combined investments become common? The expected impact and issues surrounding the UK feed in tariffs due in April will be covered along with the economics of LED lighting.

This event is for anyone advising on and working with renewable energy solutions in the South East, especially those looking to understand the developments in PV and LED lighting,

Agenda

10.00 Registration & Coffee

10.30 **Welcome & Regional capability** *John Lincoln SEPNET*

10:45 **LED lighting solutions** *James McKenzie, PhotonStar LED*

11:15 **Current PV solutions & best practice** *Michael Beale, Solar Technologies*

11.45 **Feed in tariffs - the impact, the issues** *Neil Truphet, Ownergy*

12.15 Lunch

13.15 **Economics of LED lighting** *Geoff Archenhold*

13.45 **Future of LED lighting**, *Dandan Zhu, University of Cambridge*

14:15 **Future of Photovoltaics** *Ravi Silva ATI Uni of Surrey*

14:45 **Expanding impact of photonics in Energy** *John Lincoln, SEPNET*

15:00 **Knowledge Transfer Account at Surrey** *Tiju Joseph, Uni. of Surrey*

15:15 Close

how they compare, what is viable now and what may happen in the future.

The Advanced Technology Institute at University of Surrey have kindly agreed to host this meeting in Guildford. Directions are available at www2.surrey.ac.uk/about/visitors .

SEPNET

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Registration

Although this meeting is free to attend, space is limited and advanced registration is required, please complete the online registration form at www.sepnet.net/registration. Confirmation will be sent by e-mail.