

Photonics Empowering Sustainable Lighting

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At Helvar we create intelligent and energy-saving lighting solutions. Intelligent lighting is essential for the wellbeing of employees, customers, visitors and patients. By combining smart data and reporting tools, and working together seamlessly with other systems, Helvar's solutions help to create smart environments built for the future.

This presentation delves into the potential of photonics in driving sustainable lighting solutions. It begins with an overview of the latest advancements in luminaires, focusing on LEDs, which are known for their high efficacy and long lifespan. The discussion then shifts to various control methods that enhance energy efficiency and user wellbeing. These methods are powered by sensors that enable precise and adaptive lighting adjustments.

The presentation also explores the integration of IoT with lighting controls, demonstrating how it can lead to the development of smarter, more responsive lighting systems. By leveraging IoT, lighting systems can be optimized for energy savings, user comfort, and operational efficiency.

Looking ahead, the presentation considers the future of LED lighting, highlighting emerging trends and innovations that promise to further revolutionize the industry. These include advancements in LED technology and the potential for even greater integration with IoT and other smart technologies.