

RNS REACH
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PhotonStar LED Group Plc

Halcyon installs at scale

PhotonStar LED Group Plc (AIM: PSL, "PhotonStar" or "the Group"), the British designer and manufacturer of smart LED lighting solutions, has shown the first large scale deployment of its proprietary Halcyon™ wireless lighting control and energy monitoring system. This installation demonstrates Halcyon's ability to scale for larger commercial projects and the opportunity to make retrofit projects viable through its Internet of Things wireless approach.

The 500 node system retrofitted into a three storey, multi-tenant office in the UK demonstrates Halcyon's ability to scale and provide the equivalent functionality of professional wired control systems, whilst halving the total project costs. The >80% reduction in the cost of providing lighting controls is a combination of lower equipment cost, the cost of not installing new control cables and making good subsequent damage. Halving the total project costs will deliver less than a three year payback – 30% faster than using a wired control approach, and making the project viable.

The combination of an expected 50% reduction in wasted light through control, and 64% reduction in total load through high efficiency LED luminaires, will provide more than 90% energy/CO2 savings per year. Energy & environmental monitoring data gathered by the Halcyon™ IoT system is expected to assist with behavioural changes to deliver further savings.

Due to the simplicity of installing the wireless IoT installation, the project was installed in phases out of hours, resulting in the tenants never being left without functional space or experiencing down time. Eliminating the need to install control cables meant that no redecoration or making good was required.

PhotonStar CEO **James McKenzie** said:

"Following several smaller scale trials, we are pleased to demonstrate the ability of the system to scale. Halcyon™ enables practical, viable lighting controls with full professional features where legacy systems would be impractical and cost prohibitive in the larger retrofit market. As 80% of the buildings that will exist in 2050 are already built, the now viable opportunity for lighting control in retrofit is significantly larger than new build."

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About PhotonStar LED Group PLC

PhotonStar LED Group plc is a leading British designer and manufacturer of intelligent lighting solutions. The Group's proprietary technology Halcyon™ is a connected lighting platform that includes

hardware and software for wireless, microprocessor controlled retrofit LED lighting and control systems, optimised for energy saving, circadian and data-centric applications.

As light is needed wherever there are people, the halcyon platform can also provide a connected grid that will enable rich data collection, as well as an ecosystem to enable other devices to operate.

PhotonStar is based in Romsey, Hampshire with a manufacturing facility in Wales.