

Case Study

Smart Systems completes first phase of Victoria House, Holborn lighting retrofit

Listed art-deco heritage light fittings

XXXXXXXXXX

Smart Systems (a Tridonic partner) has

successfully overseen the installation of 25 bespoke latest generation lighting trays into the Grade II listed, art-deco light fittings in London's Victoria House.

Calculations show that the new LED fittings will deliver an energy saving of over 50% on the previous light source. It also became apparent during the early discussions that the new fittings could also fulfil the requirements for Emergency lighting in the stairwell. The biggest challenge facing Smart Systems' development manager Kerry Murphy, was that the company were not permitted to remove the original fittings at any stage of the retrofit process.

It was a challenge not having a sample fitting on which to base our designs. We had to arrange out of hours access and use specialist equipment in order to gather a comprehensive set of measurements and images. Using this information, we were able to come up with a bespoke solution. The retrofit LED gear tray simply slid over the supporting frame after we had removed the old lamp holders," explained Murphy.

Each of the original light fittings housed 4 x 18w CFL lamps. These have now been replaced with 8 x 280mm LED strips by Tridonic.

In addition to meeting all the emergency lighting requirements the new solutions incorporate the microwave corridor function option. During a normal working day, the fittings sit at 20% full power but as soon as movement is detected within 5m of the fitting it ramps up to 100%. This is then held for five minutes after which, if there is no further movement detected, it reverts to 20%. If no movement is detected for 40 minutes then the fitting switches off. When this monitoring capability is replicated across the 120 plus fittings that constitute the entire project it is estimated that there will be a reduction of over 80% in energy usage.

Victoria House is recognised as one of the most desirable commercial premises in this part of London. By working with Smart Systems, we have been able to maintain the beauty of the original design whilst offering our occupiers the latest in terms of a quality and energy efficient light solution,"

Case Study

Smart Systems has been supplying lighting, emergency lighting and fire alarm products from its headquarters in Coventry, West Midlands for nearly fifteen years. In that time, its focus has shifted to energy saving products and solutions and 2014 saw the launch of the FM division, which supplies lighting and emergency lighting control gear. The company has been a Tridonic partner for xx years.

Victoria House is a stunning neoclassical landmark in one of the capitals most historical areas. It was constructed in the 1920's and extensively remodelled in 2003 to provide contemporary accommodation within an opulent structure. This impressive building houses 300,000 square feet of prime office, retail and leisure space including an original art deco ballroom. The building is now under the management of M1 Real Estate.

About Tridonic

As a leading global provider of smart and efficient lighting solutions, Tridonic today empowers its customers and business partners to become more successful by making their lighting smarter, more exciting, and more sustainable. Our component lighting solutions deliver superior quality, highest reliability, and impressive energy savings to provide our customers with a strong competitive edge.

The company continuously brings new innovations and state-of-the art lighting solutions to market. 95 percent of all R&D projects are devoted to the development of new LED and connected lighting technologies. Thanks to the in-depth expertise and knowhow in vertical lighting applications (for instance in Retail, Office & Education, Outdoor, and Industry), leading luminaire manufacturers, architects, electrical and lighting planners, electrical installers and wholesalers rely on Tridonic for both indoor and outdoor lighting needs.

As part of the Zumtobel Group, Tridonic is headquartered in Dornbirn, Austria, and in fiscal year 2014/15 generated sales of 393.8 million EUR. 1,750 highly skilled employees and a worldwide sales presence in 51 countries reflect Tridonic's commitment to accelerating the development and deployment of new, smart, and connected lighting applications. With more than 40 million light points installed every year, Tridonic is perfectly positioned to play a decisive role in leveraging lighting as a key enabler and important infrastructure for connected lighting