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## **Maidstone and Tunbridge Wells NHS Trust - Lighting the way with LED**

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### **Overview of the Project**

The Trust has completed the first half of a comprehensive LED upgrade program across Maidstone Hospital. The first Phase of the project has been completed within 2017/18 and has seen the replacement of 61 83 internal light fittings with LED alternatives, comprising approximately 50% of the entire hospital. The entire project has been funded by Salix which means that there has been no capital expenditure required.

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### **Economic, Health and Carbon Impact of the project**

The benefits of the LED upgrade programme are a reduction in electrical consumption, reduction in carbon emissions and improved patient experience through enhanced lighting levels with increased uniformity.

The upgrade to LED has reduced the energy required for lighting within the affected areas by 62%, which is a saving of 1,270,000 kWh or 11.88% of the total site 2016/17 electrical consumption. This is 485MTCO<sub>2</sub> per annum.

The project has a payback period of 4.5 years and is projected to deliver annual savings of £165,000

All fittings are supplied with a 5 year warranty and are maintenance free, leading to a reduced requirement upon the estates team within the hospital.

The project has been completed on a supply and fit basis and has included the removal of all waste generated, which is a further cost saving to the Trust by not having to pay for disposal of removed equipment

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### **Partners, supporters involved in the Project**

The project has been 100% funded by Salix and has the fittings have been supplied and fitted by Energy Saving Lighting. The initial surveys and scoping of the project was undertaken by Cynergis projects.

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### **Future plans for the project**

The next phase of the project is already surveyed and is being submitted for Salix funding to commence in April 2018. The next phase will see the replacement of

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another 6083 fittings, which represents an additional reduction of 13% of the 2016/17 consumption and would save an additional £236K per annum. The second phase has an expected payback period of 3.14 years

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