

## Business Case Application for "Invest to Save Funding"

<b>Title</b>	To convert lighting in Council owned car parks to Energy Efficient LED Lighting & Improved Time Control.	<b>Saving or Income ? ("X")</b>	<b>Saving</b>	<b>Income</b>	
			X		
<b>Total amount required from the Invest to Save Fund</b>	£100K		<b>Investment Required</b>	<b>Net Cashable Saving/Income</b>	<b>Payback Period (Years)</b>
<b>Is the investment required capital or revenue?</b>	C	<b>Month 1-12</b>	£50K	£8K	7
		<b>Month 13-24</b>	£50K	£16K	
<b>Will the resultant savings / income be capital or revenue ?</b>	R	<b>Month 25-36</b>	£0	£16K recurring	
		<b>Total</b>	<b>£100K</b>	<b>£90K</b>	

**The Proposal**

The Council owns and operates a total of 17 car parks in the District. There are a total of 132 Lamp Columns, with a range of differing heights, lanterns, lamp wattages, control equipment etc. Many of the installations are age expired, require frequent maintenance, component parts are costly to procure and the energy consumption is significantly higher than with more modern LED Lighting.

Philips Lighting Ltd., under took a free of charge survey of all the car parks, spot verified by Facilities Management staff, confirming that the existing lighting is inefficient and the Council could upgrade to LED, save energy costs, by taking full advantage of the reduced energy consumption, and realise a significant reduction in future maintenance costs.

Following random night time inspections, it was noted that a number of columns are either out of lighting, or have incorrect lamp burning, and consequently the correct light output is eroded. Upgrading the out-dated lighting infrastructure will resolve such issues, and create better lighting levels.

The Council's formally adopted Parking Strategy approved improvement to lighting in car parks as well as enhanced CCTV systems. By opting for high reliability LED light sources the CCTV systems will offer a more enhanced image quality including the provision of colour images during the hours of darkness, which will assist with crime prevention.

**The Financial Benefit Explained**

In recent years the costs of installation of new LED lighting systems have significantly reduced. It is now considered by the industry and consumers that the time is right to invest in this technology. The Council has been switching to LED lighting, for example at the Civic Offices building, and the savings have already materialised. Switching to LED lighting in car parks will in addition to resulting in reduced energy costs, reduce maintenance costs.

Definite costs will not be available until a more detailed piece of work is carried out to assess costs of changing to LED lighting, upgrading the dated infrastructure like cables and lighting columns as well as considering the work required for the CCTV schemes.

At this stage it is estimated that £100,000 additional Capital budget will be required to install new LED lighting, associated infrastructure and CCTV systems. This could reduce if there are underspends in the budget allocated for the works to the car parks under the new Parking Strategy.

**Alignment with the Corporate Plan and/or Additional (Non-Financial) Benefits**

The Council adopted the new Car Parking Strategy in March 2015. The strategy included a number of new initiatives: a new parking tariff, new Pay and Display meters, environmental enhancements, new CCTV systems and new lighting arrangements. Improvement to the lighting provision and reliability in the Car Parks will result in better illumination during the hours of darkness, make the users feel safe, allow the Council to continue to keep the Park Safe accreditations.

Increased Uniformity of lighting distribution will enable installation of better quality CCTV systems which will enable better crime detection and serve as a deterrent.

Cabinet has already approved capital funding for the environmental enhancement of car parks as part of the adoption of the new Parking Strategy. It is estimated that an additional £100,000 will be required to carry out the proposals in this business case.

**Potential Obstacles to be Overcome**

Technical advice and expertise will be provided by Facilities Management, for lighting aspects, and Safer Communities Team for CCTV systems, if this were not possible, due to competing workload, then external expertise will be required, at additional cost.

**Risks (Financial and Others)**

If internal staffing resources are not available then procurement of specialist contractors will be required, this has currently not been priced.

The return on investment may be longer if the research by Facilities Management reveals inconsistencies in the assumptions made in energy consumption.

**Key Milestones and Target Timescales (from approval)**

Milestone	Target Period from Approval Date (Months)
1) Design, Specification, Scheduling, Tender	6 months
2) Equipment Procurement	4 months
3) Contract Works On Sites	6 months
4) Commissioning and Completion	2 months Over a 2 year period

**Proposal by**

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**Directorate**

Neighbourhoods