

ENERGY EFFICIENT LIGHTING AT THE CIVIC CENTRE

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REASON FOR ITEM

At the Committee meeting on 11 April 2017, it was suggested Energy Efficient Lighting at the Civic Centre may be one item that could be considered for a review. Following advice from Officers, Members agreed that a different topic was more suitable for a review, but requested an update on the topic in the absence of a review.

RECOMMENDATION

That the Committee noted the report on Energy Efficient Lighting at the Civic Centre.

BACKGROUND

Civic Centre Works LED Programme Phase One: 2016/17

The project commenced in June 2017, and was completed on time and within budget. The project consisted of circa 1,100 lights being replaced with new LED fittings. Energy targets and savings achieved were achieved.

Civic Centre Works LED Programme Phase Two: 2017/18

The project will replace a further 1,400 lights with new LED fittings.

SUPPORTING INFORMATION

In 2016/17, the Civic Centre consumed 5,137,793 kWh of electricity at a cost of £498k. Electrical is predicted to increase in cost over the foreseeable future. The installation of LED lighting will help mitigate some of this impact. In addition, the reduction of energy will also lessen the liability for carbon taxes levied under the Carbon Reduction Commitment (CRC) Energy Efficiency Scheme. As well as the financial benefits, the project will also deliver improved building environment and reduce maintenance requirements.

The new LED fittings are projected to reduce energy consumption by 70%, compared to a standard CFL fitting (fluorescent). Phase Two is predicted to deliver an annual saving of £30k, based on the current parameters of 10.5p per kWh and 12 hour usage per day (weekday) and four hours usage per day (weekend). In addition, the reduction in energy consumption will reduce emissions by 128 tonnes of carbon dioxide, saving £2k per annum in taxes levied under the CRC Energy Efficiency Scheme.

The new LED lamps have a lifespan of 50,000 hours (approximately 11 years at 12 hours per day) compared to the 10,000 hours of conventional CFL fittings which will reduce lamp replacement and maintenance costs. The new LED fittings have a five year guarantee.

The areas covered in Phase two of the project include the quadrant areas on level two (North, East, South and West), the Lobster Pot Car Park and the Conservative Group Offices.

Appendix A details electricity consumption in the Civic Centre comparing the current financial year 2017-18 against the previous year 2016-17. The Phase one LED lighting works

commenced on the 26 June 2017. The consumption data shows that from July 2017 until the end of February 2018, electricity consumption in the Civic Centre has reduced by 200,819 kWhs. Based on the current electricity cost rate of 10.63p/kWh, the Phase One LED Lighting work has saved the Council £21K in electricity costs to date. The Phase One LED project is on target to achieve the projected annual saving of £30K.