

<b>SUSTAINABLE GROWTH AND ENVIRONMENT CAPITAL SCRUTINY COMMITTEE</b>	<b>Agenda Item No. 7</b>
<b>16 JULY 2015</b>	<b>Public Report</b>

<b>Report of the Corporate Director of Growth and Regeneration</b>		
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## **STREET LIGHTING REPLACEMENT PROGRAMME**

### **1. PURPOSE**

- 1.1 A report providing information regarding the street lighting replacement programme was requested at the previous meeting held on 10 June 2015 for consideration.

### **2. RECOMMENDATIONS**

- 2.1 To continue with the street lighting programme, utilising the results of the electrical and structural testing to identify which streets to include in the following years replacement programme.

### **3. LINKS TO THE SUSTAINABLE COMMUNITY STRATEGY**

- 3.1 Peterborough City Council has made a conscious decision to use LED energy efficient lighting options when replacing street lighting. The use of white light LEDs ensures that the lighting uses less power than an orange light equivalent, contributing to the Environment Capital aspirations.
- 3.2 The LED lighting is recognised as providing a better quality of light; it is installed in line with the appropriate British Standards. The LED lighting improves perceptions of safety contributing to strong and supportive communities

### **4. BACKGROUND**

- 4.1 Peterborough maintains in the region of 24,000 street lights and over the past four years there has been a significant increase in the number of energy efficient street lights. The changes have led to approximately a third of Peterborough's street lighting benefitting from an LED solution.
- 4.2 There has been and continues to be a number of funding streams for street lighting upgrades with slightly differing criteria for inclusion in the different programmes.
- 4.3 **Energy Efficiency Programme:** £2 million funding for lantern replacements only, split over four financial years commenced in 2011/2012 and completed in 2014/2015. As a lantern replacement scheme only, it was an essential criteria that the appropriate lighting levels could be attained using a single sized lantern and without replacing columns. Therefore only streets with steel columns and structurally sound concrete columns were considered, and prioritised those with the opportunity to make the biggest energy savings. This project replaced in the region of 6,000 old orange light emitting lanterns with white light LEDs and is now complete.
- 4.4 **Medium Term Financial Strategy:** contributes £870,000 annually and commenced in 2012/2013 for ten years, the budget was allocated as a health and safety/ risk management project to replace concrete and cast iron columns beyond their design life and in need of

replacement.

- 4.5 The first year of this programme, 2012/2013, was combined with the Energy Efficiency Programme and prioritised streets with concrete and cast iron columns where the correct lighting level could be attained without changing column locations and using the lantern size used by the energy efficiency programme. Combining the two budgets facilitated only one procurement exercise for two projects enabling further benefits associated with economies of scale for materials purchasing.
- 4.6 Further years of this programme have prioritised roads using the results of the electrical and structural testing. Streets with high percentages of columns identified as needing replacement are prioritised and included in the following years replacement programme. These roads are fully re designed with varying size lanterns. Efforts are made to keep column locations as close as possible to the original columns however there are occasions when the column locations are dictated by the need to attain the appropriate lighting standard and/or the location of the power supplies.
- 4.7 **Integrated Transport Programme:** This programme receives an annual budget from the Local Transport Plan settlement, this financial year the budget is £500,000; this can vary in line with the LTP allocation from the LEP. The LTP programme follows the same criteria as the MTFs and replaces both column and lantern and prioritises the replacement of concrete and cast iron columns using the results from the electrical and structural testing of the previous year.
- 4.8 **Parkway Lighting:** £1m 2013/2014 to 2018/2019 to replace Old columns at parkway junctions with new passive safe galvanised steel columns and LED lanterns. The lighting is replaced in the verges rather than the central carriageway and lighting on stretches of parkway of 400m or greater in length with no junctions is removed.
- 4.9 To date we have replaced and removed lighting between Junction 4 (Stanground fire station roundabout and Junction 3 (Hampton Serpentine Green roundabout). The next area to be addressed is between Junction 4 and Junction 5 (Boongate Roundabout) and dependant on budget this may continue towards Junction 7 (Oxney Road slips).
- 4.10 Each ward in the urban area, with the exception of Ravensthorpe, has benefitted from either lantern or lantern and column replacements. There are a number of streets within the Ravensthorpe Ward scheduled for electrical and structural testing this financial year, dependant on the results of the testing these may or may not be scheduled for replacement the following year.
- 4.11 Four of the five rural wards have a number of LED lanterns with the exception of Barnack. All of the villages within the Barnack ward received electrical and structural testing last financial year however the number of columns requiring attention was not significant enough for inclusion in this years replacement programme.
- 4.12 The current years installations are largely designed and prepared for the Peterborough Highway Services costing exercise, however due to the corporate AVIC proposal installation dates are not yet confirmed.
- 4.13 Please see Appendix 1 listing for details of which roads are programmed to receive replacement lighting this financial year. Please note that the lists have been collated based on estimated costs, if the costing information received from Peterborough Highways is greater than available budget some upgrades will roll into next financial year.
- 4.14 Please see Appendix 2 identifying streets for electrical testing this financial year, the results of which will determine next year's replacement programme.

## **5. KEY ISSUES**

5.1 None

## **6. IMPLICATIONS**

6.1 Streets identified for replacement are prioritised according to the results of the electrical and structural testing of columns. It is advised that this approach continues in order to address streets most in need of replacement before replacing lanterns on newer steel columns or structurally sound concrete and cast iron columns.

6.2 If this approach is not continued there are health and safety and insurance implications of not addressing lighting columns that have been notified as requiring replacement.

## **7. CONSULTATION**

7.1 No formal consultation takes place for the individual streets included in the various programmes, however, those identified for inclusion in the LTP capital programme of works are included in LTP CMDN consultation process.

7.2 The Energy Efficiency project, MTFs replacements and Parkway replacements were included in varying budget consultations prior to allocation of funds.

## **8. NEXT STEPS**

8.1 To undertake 2015/2016 electrical and structural testing to identify next financial years replacement programme.

8.2 When confirmation of AVIC details are known the next step will be to continue with the procurement and installation of this financial years programme.

## **9. BACKGROUND DOCUMENTS**

Used to prepare this report, in accordance with the Local Government (Access to Information) Act 1985

9.1 None

## **10. APPENDICES**

10.1 Appendix 1 2015/2016 streets for installation

Appendix 2 2015/2016 streets for electrical and structural testing.

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