

Report To:	Environment & Regeneration Committee	Date:	17 January 2019
Report By:	Corporate Director Environment, Regeneration & Resources	Report No:	ERC/ENV/MM/17.346
Contact Officer:	Steven Walker	Contact No:	714828
Subject:	RAMP/Capital Lighting – Progress Update		

1.0 PURPOSE

- 1.1 The purpose of this report is to advise the Committee on the implementation of the Council's Street Lighting Investment Strategy.

2.0 SUMMARY

- 2.1 Street lighting as a benefit to the local community, contributes to night time road safety, a reduction and prevention role in terms of street crime, provides for a feeling of general security, and helps to promote economic development by supporting a 24 hour economy. Street Lighting is provided in accordance with the requirements of the Roads (Scotland) Act 1984.
- 2.2 The Council approved its Street Lighting Investment Strategy in early March 2015 and, since this date, the Council has invested in significant works to its street lighting lantern and column infrastructure.

3.0 RECOMMENDATIONS

- 3.1 That the Committee note the progress with regard to the implementation of the Council's Street Lighting Investment Strategy.

Martin McNab
Head of Environmental and Public Protection

4.0 BACKGROUND

- 4.1 Street lighting as a benefit to the local community contributes to night time road safety, has a reduction/prevention role in terms of street crime, provides for a feeling of general security, and helps to promote economic development by supporting a 24 hour economy. Street Lighting is provided in accordance with the requirements of the Roads (Scotland) Act 1984.
- 4.2 A review of existing street lighting installations was carried out previously during 2014 to identify areas where energy savings could be realised. This was done in conjunction with a review of lighting standards and technologies currently available to identify potential energy and maintenance savings. In addition, a column condition survey was carried out to identify lighting columns which need replacement in the shorter term. This review resulted in the development of an outline business case and final business case.
- 4.3 This work culminated in this Committee approving a Street Lighting Investment Strategy in early March 2015. The aim of this strategy is to provide an optimum way forward for the Council in terms of investment in street lighting such that good quality lighting is provided which meets specified requirements, provides for road safety considerations, continues to assist with the reduction/prevention in street crime, reduces the carbon footprint of the Council and, in turn, minimises the costs of electrical power consumption and exposure to rising electricity prices, reduces maintenance costs, and reduces light pollution.
- 4.4 The thrust of the original lantern replacement strategy was a phased programme involving white light across the majority of the Council's lighting stock, and using in the main, LED technology, but with alternative white light sources (fluorescent or "Cosmopolis") to suit specific locations where LED may not be suitable. Taking into account the parallel need to commit funding to column replacement, it was determined that the monies available for the lantern conversion programme would be taken forward on the basis of conversions of those streetlights which were non-white and which used, in the main, older technologies such as low and high pressure sodium lamps (some 75% of the lantern stock); existing white lanterns, which comprised around 25% of the overall stock at that time, would remain in-situ and be converted to LED in later years. The existing white non-LED lanterns already provided a degree of energy saving compared to the older non-white lanterns. In tandem with the lantern proposals, a phased column replacement programme for those columns that are life expired and requiring replacement (around 720 in number), would be carried out in the first instance; in essence this would be the concrete columns and specific steel columns identified as part of the column condition survey noted in 4.2 above. In addition, a number of columns get replaced each year due to accident damage and severe corrosion identified during routine inspections.
- 4.5 With the ongoing and rapid technological developments in lantern technology which continues to deliver more efficient lanterns, and taking into account the possibility of further driving down energy consumption, and thus revenue expenditure on both electricity costs and maintenance costs, it was considered appropriate to re-assess the viability of a further possible spend to save project involving the conversion of the remaining white non-LED lanterns on the Council's road network. This project received approval of this Committee in January 2018, and is programmed for delivery by the end of March 2019.

5.0 PROGRESS OF THE STREET LIGHTING INVESTMENT STRATEGY

5.1 *Lanterns*: The table below indicates the progress on the conversion of the older type lanterns, low/high pressure sodium etc., and white non-LED types, to modern high efficiency white LED lanterns.

End Year Type	2015/16	2016/17	2017/18	2018/19 (to Sep)	2018/19 Target
White (LED)	1,425	2,911	6,999	9,219	12,660
White (Non-LED)	4,514	4,402	3,240	2,558	0
Non-White	6,642	5,323	2,420	883	0
Totals	12,581	12,636	12,659	12,660	12,660

The above progress has resulted in a reduction in electrical consumption/carbon footprint to 51% of that at the start of the RAMP investment period in financial year 2013/14.

5.2 *Columns*: The table below indicates the progress on the column replacement programme with emphasis of the replacement of the life expired concrete columns and badly corroded steel columns.

End Year Type	2015/16	2016/17	2017/18	2018/19 (to Sep)	2018/19 Target
Steel	11,682	11,740	11,856	12,222	12,243
Concrete	483	476	387	21	0
Aluminium	210	214	216	217	217
Totals	12,375	12,430	12,459	12,460	12,460

5.3 The Committee is asked to note the progress with regard to the implementation of the Council's Street Lighting Investment Strategy.

6.0 IMPLICATIONS

6.1 Finance:

This is an update report on progress of the street lighting investment strategy only, all financial implications relating to the programme are reported regularly to this Committee in both the Revenue budget and Capital Programme update reports.

One-off costs:

Cost Centre	Budget Heading	Budget Years	Proposed spend this report (£000s)	Virement from	Other comments
N/A					

Annually recurring costs:

Cost Centre	Budget Heading	Budget Years	Proposed spend this report (£000s)	Virement from	Other comments
N/A					

6.2 There are no legal implications arising from this report.

Human Resources

6.3 There are no specific HR implications arising from this report.

Equalities

- 6.4 As this report does not involve a new policy or a new strategy, there are no equalities issues arising.

Repopulation

- 6.5 The quality of the roads network and its associated street lighting is an influencing factor in the perception which people have of the area and the work associated with this report will have a positive benefit to the Council's Repopulation Strategy.

7.0 CONSULTATIONS

- 7.1 The Chief Financial Officer, Head of Legal & Property Services, and the Corporate Procurement Manager have been consulted on the contents of this report.

8.0 LIST OF BACKGROUND PAPERS

- 8.1 None.