Safe and Sensible Street Lighting - Update

To: Ashford Joint Transportation Board, 8th December 2015

Main Portfolio Area: Highways, Transportation & Waste

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Classification: For Recommendation

Ward: Division:

Summary: This report provides an update to Members about Phase 1 of the SSSL project – Trial switch off

1.0 Introduction and Background

- 1.1 In August 2013, following a Member decision in 2011, the County Council began implementing its Safe & Sensible Street Lighting (SSSL) project to reduce the costs of providing street lighting across the County.
- 1.2 SSSL comprised two phases:
 - Phase 1 Trial switch off of surplus lights:
 - Phase 2 Conversion of approximately 60,000 lights to part-night operation.
- 1.3 Details of the sites to be included in the trial switch off (Phase 1), and the proposed hours of switch off and the exclusion criteria for Phase 2, were reported to Members at the Spring 2013 cycle of JTB meetings.
- 1.4 For the trial switch off sites, Members were invited at those JTB meetings to provide any information that should be considered when making the final decision on whether to proceed with the trial. This resulted in some lights being excluded from the trial and some others being amended from a full switch off to being included in Phase 2 part night lighting.
- 1.5 For Phase 2, Members were asked to comment on the proposed hours of switch off which were 12.00 midnight to 05.30am Greenwich Mean Time (GMT) and 01.00 to 06.30 British Summer Time (BST). Members generally agreed with the proposals for Phase 2.
- 1.6 Both Phases of SSSL were largely completed by autumn 2014 and are currently saving around £1m each year.
- 1.7 This report provides Members with an update on Phase 1 of SSSL.

1.8 This report does not include any details about Phase 2 – Part night lighting, as a public consultation with regard to street lighting operation ends on 29th November 2015, with a decision anticipated to be made in early 2016.

2.0 Phase 1 - Trial Switch Off

Selection of sites

- 2.1 The sites selected for inclusion in the trial switch off were those where street lighting is present; however, if these roads were being designed and built today, it is most unlikely that street lighting would be provided.
- 2.2 The purpose of the trial switch off was to establish if there would be any adverse impact on a site if the lights were switched off completely. If it was found that there was no adverse impact, it would be the County Council's intention to consider these lights for removal.
- 2.3 When originally presented to Members at the Spring 2013 JTB meetings approximately 133 sites across Kent totalling around 2500 lights were identified as being potentially suitable for inclusion in the trial switch off. In the Ashford district, the sites identified were:

A20 Maidstone Road, Charing
A20 Maidstone Road, Tutt Hill/Hothfield
Charing Hill
A20 Maidstone Road, Ashford
Templer Way
Trinity Road
Romney Marsh Road.
Ashford Road, Charing

These sites are shown on the plan included at Appendix A.

- 2.4 At the JTB meeting Members were invited to consider three options for each site. The options were:
 - a) The site should be included in the trial switch off.
 - b) The site should be excluded from the trial but the lights converted to partnight operation
 - c) The site should be withdrawn from the trial switch off and the lights left to operate without change.
- 2.5 Information provided by Members at the JTB meeting was later considered together with other factors such as crime and road safety. A recommendation was then made to the Director of Highways, Transportation & Waste, who made the final decision on whether to include each site within the trial.
- 2.6 As a result of this process all sites were included in the trial switch-off:
- 2.7 In respect of sites in other districts in the county the JTB meetings and decision making process resulted in the original 2500 lights being reduced to around 1200 lights that were actually switched off for a trial period.

Mitigation works

- 2.8 A key aspect of the trial switch off was to ensure the absence of lighting did not create an unsafe situation.
- 2.9 Prior to switching any street lights off, each site was inspected to establish the condition of the site and identify the need for any works to be undertaken to ensure that the safety of the site was not affected. The works required were generally found to be carriageway markings, cleaning signs, and for some sites installing reflective road studs.
- 2.10 An additional safeguard that was included in these mitigation works was that strips of reflective material were fixed to individual street lights so they would be picked up by car headlights alerting drivers to the presence of the columns.
- 2.11 All mitigation works were undertaken before any street lights were switched off.

Date of switch off

- 2.12 The date that each site in the Ashford district was switched off is shown in the tables within paragraph 2.29 below.
- 2.13 On the date of the switch off, information signs with a contact telephone number were erected at each site.

Monitoring during the switch off period

- 2.14 Throughout the period of the trial switch off, the sites were monitored for any adverse impacts that may have been due to the absence of street lighting. The monitoring included:
 - a) Liaising regularly with Kent Police in respect of criminal activity.
 - b) Reviewing any Road Traffic Collisions (RTCs) that occurred.
 - c) Reviewing information received from others e.g. Members, the public, Parish and Town Councils, Emergency Services.
- 2.15 If any adverse impact was identified, then following consultation with the Cabinet Member, the street lights were switched back on.
- 2.16 Within the Ashford district there were no sites that experienced any adverse impact that required the street lights to be switched back on before the end of the trial. However it was necessary to withdraw Ashford Road, Charing from the trial as the lights were found to belong to Ashford Borough Council, who wished them to be returned to lighting.

Feedback received

2.17 Following the switch off, a number of enquiries about the trial were received. Most enquiries were received within a few weeks of the date of the switch off and have generally declined in number and frequency since then.

- 2.18 The enquiries were generally from customers who felt that the safety of the road would be reduced without lighting.
- 2.19 Each enquiry was considered and investigated when it was received and a response provided at the time. All enquiries received were considered again as part of the review of the trial switch off.
- 2.20 The number of enquiries received and the date of the most recent enquiry are included in the tables within paragraph 2.29 below.

Review of the trial

- 2.21 Each of the trial switch off sites was reviewed, with the following factors being considered:
 - a) Enquiries received
 - b) Feedback from Kent Police on crime
 - c) RTCs occurring during the trial switch off
 - d) Future requirements for street lights at the site.

Financial implications

- 2.22 The objective of SSSL as a whole is to reduce the cost to the County Council of providing street lighting, the savings being made principally from reduced energy consumption and reduced carbon emissions. In preparation for the LED conversion rollout, there are two additional savings that can be realised from the trial switch off sites: future maintenance costs would be eliminated, and the installation costs of new LED lanterns would be avoided.
- 2.23 In order to assess the financial implications of this element of the project a comparison was made between the cost of removing the lights and the cost of retaining the lights.
- 2.24 The cost to remove a light is principally dependent on the nature of the road in which it is located and the extent of traffic management required. In all other respects the works involved are the same regardless of the location and would include disconnection, removal and disposal of the equipment and reinstatement of the highway surface.
- 2.25 The cost of retaining the light was assessed over a period of 15 years as this coincides with the duration of the forthcoming new Street Lighting Term Services Contract.. The costs of retaining the light included installation of a new LED luminaire, replacement of the column if this is likely to be needed within 15 years, energy costs and routine electrical and structural testing.
- 2.26 The comparison of costs shows that the costs of removal are lower than retaining a light over this period of time. A longer period would further increase the cost of retaining the light. Additionally if at some stage it was decided that the lights are no longer required the cost of removal would still be incurred.

- 2.27 Funds have been specifically allocated for the removal of lights associated with the trial switch off and are currently available. If the lights are to be retained the availability of this funding in the future is not certain.
- 2.28 The cost of each of these options is included in the tables within paragraph 2.29 below.

Summary of review, financial implications and recommendations for each site

2.29 The findings of the review are summarised in the tables below, together with conclusions and recommendations for each site.

Site	A20 Maidstone Road, Charing
Number of lights	6
Date of switch off	21/11/2013
Number of enquiries received	0
Date of most recent enquiry	-
Number of incidents of crime or ASB	4 (all Maidstone Road sites in
occurring in the year preceding the	Ashford)
trial switch off	,
Number of incidents of crime or ASB	3 (all Maidstone Road sites in
occurring in the year following the trial	Ashford)
switch off	
Number and severity of RTCs	0
occurring in darkness during the trial	
switch off	
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£4,500
Cost to retain and operate for 15	£11,220
years	
Conclusions	The trial switch-off has not led to an
	increase in crime or crashes, and
	Kent's residents have not commented
	on these lights being switched off,
	suggesting that there is no need to
	continue providing lighting to this part
	of the highway.
	These columns are at the end of the dire
	These columns are at the end of their
	lifespan, and removing them
	immediately will result in savings to
	Kent County Council of around £7,000
	over the next 15 years, with further
Recommendation	savings in the longer term. The recommendation to the
Necollillelluation	Cabinet Member is that the street
	lights should be removed.

Site	A20 Maidstone Road, Tutt Hill/Hothfield
Number of lights	56
Date of switch off	21/11/2013
Number of enquiries received	3
Date of most recent enquiry	10/12/2013
Number of incidents of crime or ASB	4 (all Maidstone Road sites in
occurring in the year preceding the trial switch off	Ashford)
Number of incidents of crime or ASB occurring in the year following the trial switch off	3 (all Maidstone Road sites in Ashford)
Number and severity of RTCs occurring in darkness during the trial switch off	0
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£42,000
Cost to retain and operate for 15 years	£102,320
Conclusions	The trial switch-off has not led to an increase in crime or crashes, and although a small number of enquiries were received within a month of the lights being switched off, none have been received since December 2013, suggesting that Kent's residents are largely accepting of the switch-off. Most of these columns are at the end of their lifespan, and removing them immediately will result in savings to Kent County Council of around £62,000 over the next 15 years, with further savings in the longer term. Taking this into consideration, it is recommended that these columns be removed.
Recommendation	The recommendation to the Cabinet Member is that the street lights should be removed.

Site	Charing Hill
Number of lights	16
Date of switch off	21/11/2013
Number of enquiries received	11
Date of most recent enquiry	28/01/2015
Number of incidents of crime or ASB	0
occurring in the year preceding the	
trial switch off	
Number of incidents of crime or ASB	4
occurring in the year following the trial	
switch off	
Number and severity of RTCs	0
occurring in darkness during the trial	
switch off	
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£8,000
Cost to retain and operate for 15	£10,720
years	
Conclusions	The increase in crime, and the
	concerns expressed by the police and
	by local residents, suggest that the
	trial switch-off has had some adverse
	effect on the local community.
	As the columns at this site are just
	under half-way through their expected
	lifespan, they are unlikely to need
	replacing within the next 15 years, so
	the cost of continuing to run them over
	this period would be only around
	£3,000 more than the cost of
	removing them. Taking this into
	consideration, it is recommended that
	these lights are switched back on
	immediately and converted to LED in
	due course.
Recommendation	The recommendation to the
	Cabinet Member is that these lights
	should be switched back on
	immediately and converted to LED
	in due course.

Site	A20 Maidstone Road, Ashford
Number of lights	2
Date of switch off	21/11/2013
Number of enquiries received	2
Date of most recent enquiry	03/02/2014
Number of incidents of crime or ASB	4 (all Maidstone Road sites in
occurring in the year preceding the	Ashford)
trial switch off	,
Number of incidents of crime or ASB	3 (all Maidstone Road sites in
occurring in the year following the trial	Ashford)
switch off	
Number and severity of RTCs	0
occurring in darkness during the trial	
switch off	
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£1,500
Cost to retain and operate for 15	£3,740
years	
Conclusions	There has been no increase in crime
	and no crashes since switch-off, and
	although two residents have
	expressed concerns about the safety
	of the switch-off, their concerns would
	not appear to be supported by the
	crash data.
	The section as bosses are some balt were
	These two columns are over half-way
	through their expected lifespan and
	are likely to need replacing during the
	next 15 years, so removing them
	immediately will result in savings to
	Kent County Council of around £2,000
	over this period, with further savings
	in the longer term. Taking this into
	consideration, it is recommended that
Barranan Intian	these columns be removed.
Recommendation	The recommendation to the
	Cabinet Member is that the street
	lights should be removed.

Site	Templer Way, Ashford
Number of lights	6
Date of switch off	21/11/2013
Number of enquiries received	2
Date of most recent enquiry	12/12/2014
Number of incidents of crime or ASB	0
occurring in the year preceding the	
trial switch off	
Number of incidents of crime or ASB	0
occurring in the year following the trial	
switch off	
Number and severity of RTCs	0
occurring in darkness during the trial	
switch off	
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£6,000
Cost to retain and operate for 15	£13,020
years	Although the are been been as in an are
Conclusions	Although there has been no increase
	in crime or crashes since switch-off,
	and few of the many people who use this road have expressed concerns,
	this trial site now appears anomalous
	in that it is a very short length of unlit
	road forming part of a network of lit
	roads in and around Ashford town
	centre.
	ochtro.
	These columns are over half-way
	through their expected lifespan and
	are likely to need replacing during the
	next 15 years, so the cost of
	continuing to run them over this period
	would be around £7,000 more than
	the cost of removing them.
	Notwithstanding this, it is
	recommended that these lights are
	switched back on immediately and
	converted to LED in due course.
Recommendation	The recommendation to the
	Cabinet Member is that these lights
	should be switched back on
	immediately and converted to LED
	in due course.

Site	Trinity Road, Ashford
Number of lights	9
Date of switch off	21/11/2013
Number of enquiries received	9
Date of most recent enquiry	24/07/2015
Number of incidents of crime or ASB	3
occurring in the year preceding the	
trial switch off	
Number of incidents of crime or ASB	4
occurring in the year following the trial	
switch off	
Number and severity of RTCs	0
occurring in darkness during the trial	
switch off	
Remarks relating to RTCs	-
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£4,500
Cost to retain and operate for 15	£15,030
years	
Conclusions	Strong local opposition to the trial
	switch-off, supported by survey
	evidence that Trinity Road is used as
	a walking and cycling route, and
	police concerns about an increase in
	violent crime suggest that the trial switch-off has had an adverse effect
	on the local community. In addition,
	this trial site now appears anomalous
	in that it is a relatively short length of
	unlit road forming part of an otherwise
	lit route between Kennington and the
	centre of Ashford, and future
	developments appear likely to
	increase the need for lighting in this
	area.
	arca.
	These columns are over half-way
	through their expected lifespan and
	are likely to need replacing during the
	next 15 years, so the cost of
	continuing to run them over this period
	would be around £11,000 more than
	the cost of removing them.
	Notwithstanding this, it is
	recommended that these lights are
	switched back on immediately and
	converted to LED in due course.
Recommendation	The recommendation to the
	Cabinet Member is that these lights
	should be switched back on

immediately and converted to LED
in due course.

Site	Romney Marsh Road
Number of lights	75
Date of switch off	21/11/2013
Number of enquiries received	0
Date of most recent enquiry	-
Number of incidents of crime or ASB	1
occurring in the year preceding the	
trial switch off	
Number of incidents of crime or ASB	1
occurring in the year following the trial	
switch off	
Number and severity of RTCs	1 - slight
occurring in darkness during the trial	
switch off	N.
Remarks relating to RTCs	None.
Feedback from Development Team	No concerns raised.
Feedback from Operations Team	No concerns raised.
Cost to remove	£75,000
Cost to retain and operate for 15	£162,750
years	The trial exitely off has not led to an
Conclusions	The trial switch-off has not led to an
	increase in crime or crashes, and
	Kent's residents have not commented
	on these lights being switched off, suggesting that there is no need to
	continue providing lighting to this part
	of the highway.
	of the highway.
	These columns are around two-thirds
	of the way through their expected
	lifespan, and removing them
	immediately will result in savings to
	Kent County Council of around
	£90,000 over the next 15 years, with
	further savings in the longer term.
Recommendation	The recommendation to the
	Cabinet Member is that the street
	lights should be removed.

3.0 Legal implications

- 3.1 The County Council has no statutory duty to provide street lighting, but where it does so the lighting must be provided and maintained in accordance with industry good practice.
- 3.2 Power for the street lights is supplied by UK Power Networks and switching the lights off for a trial period is acceptable to UKPN, however UKPN will not allow the street lights to remain connected to their network indefinitely if they are not using the power.
- 3.3 If the power to the street lights is removed to satisfy UKPN's requirements the street lights would be considered to be a number of individual highway obstructions. If one of these 'obstructions' were struck, the County Council could be liable for any costs.
- 3.4 In order for the County Council to avoid any legal liability the street lights must be either turned back on or removed.
- 3.5 The presence of a system of street lights in a road restricts vehicle speeds in that road to a maximum speed of 30mph. Where a speed limit in a road with street lights exists that is more or less than 30mph that speed limit would have been made by the creation of a specific Speed Limit Order (SLO).
- 3.6 Where a SLO does not exist the removal of street lights in a road would mean that the road becomes automatically subject to the national speed limit i.e. 60mph for a single carriageway road or 70mph for a dual carriageway.
- 3.7 If the removal of street lights led to the speed limit changing from 30mph to the national speed limit, a SLO would be made to restrict vehicle speeds to a maximum of 30mph.

4.0 Conclusions

- 4.1 For the majority of sites across Kent that were included in the trial, turning off the lights has not had an adverse effect.
- 4.2 There are a small number of sites where the absence of lighting has had an adverse effect and some of these were returned to lighting during the trial. The review has identified some other sites where the recommendation is that lighting is restored.
- 4.3 To avoid any legal liability the lights must be switched back on or removed.
- 4.4 The cost to the County Council of removing the lights will in every case be less than the cost of turning the lights back on and maintaining them into the future.
- 4.5 The switch off and removal of the lights will this generate financial savings for the County Council.

5.0 Recommendations

5.1 For each site in the summary tables Members are asked to provide any local information that would require the recommendation being made to the Cabinet Member to be changed.

