CYNGOR CAERDYDD CARDIFF COUNCIL

ENVIRONMENTAL SCRUTINY COMMITTEE

7 MAY 2019

PRE DECISION SCRUTINY: LED STREET LIGHTING ON RESIDENTIAL HIGHWAY NETWORK

Reason for the Report

- To provide the Committee with an opportunity to undertake pre decision scrutiny of a proposal for LED street lighting on Cardiff's highway network before it is considered by Cabinet at their meeting on the 16th May 2019. A copy of the Draft Cabinet report and its appendices are attached to this report as follows:
 - Appendix 1 Draft Cabinet Report LED Street Lighting on Residential Highway Network
 - Appendix 2 Cost benefit analysis for LED with Central Management System 17 Years
 - Appendix 3 Equality Impact Assessment Residential Locations LED Lighting EqIA 20042019

Background

- On 16th June 2016, Cabinet approved the procurement of LED street lighting on the strategic road network. The conclusion of this work was to implement 13,600 LED street lights across Cardiff; achieving savings relating to the Medium Term Financial Plan through energy reduction and a reduction in Council's operational CO2 emissions.
- 3. Following the initial work on LED and energy savings the service area developed a programme of improvements where we could demonstrate renewal of infrastructure in terms of LED technology would support a reduction in ongoing energy charges.

The programme included work to lighting in underpasses and traffic signals / pedestrian crossing. The programme also identified a future proposal to implement LED street lighting on the residential highway network, if supported by a business case.

- 4. To support the development of a business case to implement LED street lighting on the residential highway network a pilot scheme was implemented in Radyr consisting of 1,250 LED street lights in a residential setting. This pilot supported both the business case in relation to confirming energy savings and provided a good indication of the acceptance of the change to LED street lighting by residents. Four complaints were received within the pilot area; however, these all related to the implementation of the lighting and were rectified as part of the contract.
- 5. The proposed procurement is the final stage of the highway LED street lighting programme converting 23,750 residential streetlights to LED.
- It is estimated that implementing LED street lighting on the residential highway network will reduce energy costs by £423,800 per annum, if energy costs remain at current levels. This energy saving will support paying for installation, maintenance and financing of the project, estimated at £6,532,662 over the next 17 years.
 Appendix 2 shows the cost benefit analysis for a 17-year capital repayment period.
- 7. Cardiff Council has a commitment letter for interest-free Salix funding for £4,578,000 to optimise savings. This will be complimented with approximately £1,954,662 of Capital funding from the General Capital Fund (GCF). This funding will be repaid from the energy savings, including interest payments for the use of GCF funding.
- The business case for the project has been scrutinised at the Investment Review Board to ensure the funding model is robust.
- 9. Due to the repayment of the investment funding in the project there are no identified savings in the Medium Term Financial Plan. However, the introduction of LED technology with a Central Management System will provide improvements in the management of street lighting including reducing resident complaints. There is also an opportunity to share the real-time street lighting information with C2C and the resident.

- 10. By implementing the proposal to provide LED street lighting on the residential network IT IS ESTIMATED that a total of 836.25 tonnes of CO2 (using the 2018 UK GHG conversion factors) will be saved from Council operations. This will contribute positively to the Councils carbon reduction target of 26% in CO2 emissions from key Council operations by 2020 (from 2005/06 baseline).
- 11. A Central Management System was introduced when LED street lighting was implemented on the strategic road network. The LED street lighting on the residential road network will also have a Central Management System and will synchronise with the existing system.
- 12. The Central Management System allows Officers to raise and lower lighting levels to support improving energy efficiency; whilst allowing the management of any concerns relating to lighting levels.
- 13. The Central Management System will allow integration with other technology in a SMART City approach to managing city infrastructure.
- 14. The project will be tendered via OJEU open procedure via 'Sell to Wales' as it was felt that the South East Wales Contractor framework did not offer the scope for competition for this specialist contract. The Council will utilise the Welsh Government SQUID pre-qualification document for the purposes of the selection process. Within the selection process (Part A) failure to meet the mandatory requirements, and achieve a minimum score of 37 out of 74 within sections B, C, D, E, F and G will result in bidders not being considered further.
- 15. The proposed procurement timetable is shown in **Table 1** below. This is intended as a guide.

Stage	Date(s)/time
Issue of Invitation to Tender	Thursday 1 st August, 2019
Closing date for the downloading of documents and for requests for information.	23:00:00, Thursday 29 th August, 2019.

Table 1 – Proposed Procurement Timetable

Final Issue of clarification responses	By Tuesday, 3 rd September 2019
Closing date for submission of Tenders	12:00:00, Noon on Friday 13 th September 2019.
Evaluation of Tenders	By Friday 20 th September 2019.
Notification of result of evaluation	By Friday 27 th September 2019.
Standstill period	Friday 27th September to Monday 5 th September, 2019.
Expected date of award of Contract	Monday 7 th October 2019.
Contract Start Date	28 th October 2019.

 The term of contract will be NEC Engineering and Construction Contract Option B – Priced Contract with Bill of Quantities. The proposed commencement date for the contract will be October 2019; it is estimated the contract duration will be 18 months.

Issues

- 17. Street lighting in Parks and on Housing Land is out of scope as the Service Areas do not hold any asset data with regards their street lighting asset. These street lights could be brought within scope during the delivery of the contract if timescales permit. If timescale do not permit, subsequent smaller contracts or Direct Labour Operatives in Highways could undertake the work based on the funding from the Service Areas.
- 18. Prior to the introduction of LED lighting on the strategic network, a trial of LED street lighting lanterns took place and included consultation with vulnerable users, the night sky group and an individual who has legally challenged another local authority in relation to street lighting.
- 19. The specification for residential streets will match that of the strategic network which is a white light of 3000 kelvins. This is a warmer light colour that matches the existing white light already located in residential areas so the effect on individuals should be minimum as the apparent change will be minor. To date very few complaints have been received related to LED installation and any issues reported have been efficiently managed through minor adjustments and the CMS system.

20. There is no legislation or specific guidance with respect to the specification of LED street lighting kelvin levels, but Street Lighting Officers have set the specification at 3000 Kelvins by reviewing literature and the issues encountered by other Local Authorities.

Local Member Consultation

21. An information pack and programme for Members will be developed and circulated prior to commencement of the contract. This will contain frequently asked questions to ensure that Members are fully informed and are able to engage and correspond directly with residents as required.

Previous Scrutiny

- 22. The Environmental Scrutiny Committee received an item titled 'Street Lighting Member Briefing' on the 14th June 2016. The purpose of the briefing was to brief Members on recent developments and proposals relevant to the street lighting in Cardiff, with particular focus being placed upon:
 - The proposal of procuring a contract to deliver LED street lighting for Cardiff;
 - An update on the street lighting dimming contract.
- 23. A copy of the cover report provided for this item in June 2016 is attached to this papers as **Appendix 4**. A copy of the letter sent after the meeting to the Cabinet Member for Transport, Planning & Sustainability is attached to this paper as **Appendix 5**.

Reason for Recommendations

- 24. The Cabinet report titled 'LED Street Lighting on Residential Highway Network' makes the following recommendations:
 - i. the procurement process to award a (Works) contract to deliver LED street lighting for the residential highway network as set out in the body of the report;
 - ii. the issuing of the OJEU notice to formally commence the procurement process; and,

iii. to delegate authority to the Director of Planning, Transport and Engineering, subject to consultation with the Cabinet Member Corporate Services & Performance and the Cabinet Member Transport, Planning & Sustainability to deal with all aspects of the procurement process and ancillary matters up to and including contract award. Provided that the overall cost of the contract does not exceed a value of £7 million, in which case matters will be referred back to Cabinet for consideration.

Way Forward

25. Councillor Caro Wild, Cabinet Member for Strategic Planning & Transport has been invited to attend for this item. He will be supported by officers from the Planning, Transport & Environment Directorate.

Legal Implications

26. The Scrutiny Committee is empowered to enquire, consider, review and recommend but not to make policy decisions. As the recommendations in this report are to consider and review matters there are no direct legal implications. However, legal implications may arise if and when the matters under review are implemented with or without any modifications. Any report with recommendations for decision that goes to Cabinet/Council will set out any legal implications arising from those recommendations. All decisions taken by or on behalf of the Council must (a) be within the legal powers of the Council; (b) comply with any procedural requirement imposed by law; (c) be within the powers of the body or person exercising powers on behalf of the Council; (d) be undertaken in accordance with the procedural requirements imposed by the Council e.g. Scrutiny Procedure Rules; (e) be fully and properly informed; (f) be properly motivated; (g) be taken having regard to the Council's fiduciary duty to its taxpayers; and (h) be reasonable and proper in all the circumstances.

Financial Implications

27. The Scrutiny Committee is empowered to enquire, consider, review and recommend but not to make policy decisions. As the recommendations in this report are to consider and review matters there are no direct financial implications at this stage in relation to any of the work programme. However, financial implications may arise if and when the matters under review are implemented with or without any modifications. Any report with recommendations for decision that goes to Cabinet/Council will set out any financial implications arising from those recommendations.

RECOMMENDATION

The Committee is recommended to:

- (i) Consider the information in this report and the information presented at the meeting;
- (ii) Determine whether they would like to make any comments, observations or recommendations to the Cabinet on this matter; and,
- (iii) Decide the way forward for any future scrutiny of the issues discussed.

DAVINA FIORE Director of Governance & Legal Services 1 May 2019