ITEM No …8……..

REPORT TO: **CITY DEVELOPMENT COMMITTEE – 28 MARCH 2016**

REPORT ON: **STREET LIGHTING PARTNERSHIP PERFORMANCE 2014/2015**

REPORT BY: **EXECUTIVE DIRECTOR OF CITY DEVELOPMENT**

REPORT NO: **91-2016**

1 PURPOSE OF REPORT

1.1 This report provides an update on the progress and performance of the Street Lighting Partnership with Tayside Contracts on the delivery of the street lighting services within Dundee City Council to 31 March 2015.

2 RECOMMENDATION

2.1 It is recommended that the Committee notes the content of the report and agrees that the Executive Director of City Development continues to report back annually to the committee advising on the progress and performance of the Partnership.

3 FINANCIAL IMPLICATIONS

3.1 There are no direct financial implications arising from this report.

4 BACKGROUND

4.1 Reference is made to Article XV of the City Development Committee of 23 February 2015 (Report 72-2015 refers) when approval was given to extend the Street Lighting Partnership with Perth & Kinross Council and Tayside Contracts for a further 3 years to 31st March 2018.

4.2 The Partnership operates as an integrated team under a single Street Lighting Partnership Manager covering both Dundee City Council and Perth & Kinross Council and has many benefits for both Councils and Tayside Contracts:

- the larger team is more adaptable when dealing with peaks and troughs in workload;
- the production of a common specification has reduced the costs of storage of materials and encourages cost savings through bulk purchase. This approach is supported by Scottish Government initiatives, Procurement Scotland, Scotland Excel and the Tayside Procurements Consortium (TPC);
- the arrangement also meets the Scottish Governments objectives in increased partnership working and shared services in line with the Efficient Government agenda;
- it has the potential for expansion, for example by other Councils considering joining as experience grows over time; and
- this structure has provided opportunities for efficiencies and reduced staff costs for both the Councils and Tayside Contracts.

4.3 An Executive Group comprising of 2 senior officers from each Council and Tayside Contracts meet 3 times a year to review the performance of the Partnership against a number of agreed criteria.

4.4 The Street Lighting Partnership is fully committed to the Roads Asset Management Planning framework. All Street lighting inspections, repairs, inventory and records are held and updated electronically.

4.5 The Street Lighting Partnership has gained national recognition of its level of service and service approach. In 2008 it reached the finals of the Association of Public Service Excellence (APSE) awards in the Public/Public Partnership category, in 2010 it was a finalist in the APSE Best Performing category and in 2013, Dundee City Council (street lighting) was shortlisted for a UK National Award for "Best and Most Improved Performer".

4.6 Appendix A contains benchmarking information taken from the SCOTS/APSE (Society of Chief Officers Transportation in Scotland/Association of Public Service Excellence) benchmarking exercise for 2014/15 which collects and compares the annual performance of all 32 Scottish Local authorities against agreed key service performance indicators. Dundee City Council forms part of the SCOTS cities family grouping and is compared against Aberdeen, Edinburgh and Glasgow. Scottish averages are also referred to where appropriate.

4.7 Some highlights from this exercise are listed below:

a Scottish Cities Comparison

Dundee has lowest average annual electricity consumption per street light of any Scottish city.

Dundee has replaced more luminaires than any other Scottish city.

Dundee has the most reliable street lights, averaging 7 years between repairs.

b Scottish Councils Comparison

To assist with facial recognition and reduce the fear of crime, Dundee City Council has the highest percentage of modern white light sources of any Scottish Council.

4.8 As part of the Roads Asset Management Planning framework, projections are made in relation to the increasing price of electricity. Through capital investment and spend to save policies, the Street Lighting Partnership has sought to mitigate these increases largely due to the proactive approach of taking advantage of the advancements in lighting technology to reduce electricity consumption and reduce maintenance. As a result of this work the annual electricity consumption in 2014/2015 was reduced by 664,985 kWhr (6% of the previous years total).

4.9 The Street Lighting Partnership has a proactive approach to utilising new technologies for the benefit of the city, such as the use of energy efficient white light sources and also part night variable lighting levels. LED luminaires are now widely available and economically viable as a suitable lighting source for external lighting and this makes them attractive for invest to save initiatives. As of 31 March 2015 Dundee had 3,731 LED streetlights, an increase of 2,324 from the previous year. The Street Lighting Partnership was able to take advantage of £931,875 of Scottish Government supported funding through Salix provided at 0% interest in order to progress these works.

4.10 The Street Lighting Partnership introduced a Central Management System (CMS) in the City Square which also controls the Christmas lights. The system can adapt the lighting levels of the street lights remotely using RF signal communication. This technology is also now being used by the Partnership in the city's 20mph warning signs around schools and ensures that the signs operate in accordance with the schools term times and operating hours and these can be changed remotely without the need to visit each site. Such technology is the basis of Intelligent Street Lighting which will become predominant as we move towards a Smart City environment and the knowledge and experienced gained from these installations will be invaluable in developing the Smart City functionality.

4.11 The Street Lighting Partnership was the first in the UK to trial a new LED replacement lamp to the market. This lamp is designed as a retrofit solution which allows the Council to utilise the

remaining lifespan of an existing luminaire and simply swap out the lamp instantly achieving a minimum of 50% reduction in energy consumption and reducing required ongoing maintenance. Following a successful small scale trial in a residential area, the North Marketgait tunnel has now been relit using these lamps, saving 67,888 kWhr per annum, a saving of 59.7% on the previous lighting arrangement.

4.12 In line with national guidance and recommendations, street lights with adaptable lighting levels have been introduced where traffic volumes and pedestrian movement reduces significantly outwith peak social hours. This innovative approach reduces energy consumption and assists the Council in meeting its Statutory carbon reduction obligation.

4.13 There are still opportunities for improvement and the Partnership is one of the leading Councils in the introduction of new technologies to further enhance and build on the successes that have been realised to date. The Partnership will strive to improve the following areas of work:

- continue to review, challenge and utilise new technologies in order to reduce energy consumption and maintenance costs;
- continue to monitor and review the quality of service provided through the partnership focusing on operational quality and customer satisfaction;
- through the SCOTS Asset Management project the Partnership is undertaking an active role in the introduction and development of asset management tools and techniques to help further improve the service; and
- continue to work with local and national partners to deliver the Scottish Government shared service agenda.

5 POLICY IMPLICATIONS

5.1 This Report has been screened for any policy implications in respect of Sustainability, Strategic Environmental Assessment, Anti-Poverty, Equality Impact Assessment and Risk Management. There are no major issues.

6 CONSULTATIONS

6.1 The Chief Executive, the Executive Director of Corporate Services and Head of Democratic and Legal Services have been consulted and are in agreement with the contents of this report.

7 BACKGROUND PAPERS

7.1 None.

Mike Galloway
Executive Director of City Development

Neil Gellatly
Head of Roads and Transportation

NHG/LC/KM

17 March 2016

Dundee City Council
Dundee House
Dundee

Appendix A - Benchmarking Comparison with other Cities and Scottish Averages

	PI Ref:	SCOTS / APSE PI Description	Scottish Average	Council Results 2014-15			
				Dundee	Council A	Council B	Council C
Safety	39	Percentage of columns with a valid Structural Test Certificate	40.09%	73.39%	No data	No data	No data
	40	Percentage of street lights with a valid Electrical Test Certificate	58.13%	88.85%	27.02%	No data	20.69%
Conition and Asset Preservation	29a	Faults as a percentage of street lighting stock	16.96%	12.73%	20.97%	No data	23.25%
	29b	Mean time between failures (MTBF) in years	5.8	7.9	4.8	No data	4.3
	Stat	Percentage of columns replaced	1.83%	3.14%	1.29%	No data	0.52%
	Stat	Percentage of lanterns replaced	7.06%	11.32%	5.05%	0%	1.38%
Customer Service	3	Percentage of repairs within 7 days	91.19%	89.0%	67.24%	No data	97.7%
	20	Average time taken to repair (elapsed days)	4.71	4.2	12.78	No data	6.11
	27	Public calls as a percentage of faults	61.7%	44.96%	57.7%	No data	113.12%
	28	Public calls as a percentage of street lights	10.81%	5.72%	12.1%	8.12%	26.3%
	Stat	Percentage of street lights modern white light	28.33%	72.7%	46.1%	34.39%	16.53%
	Stat	Percentage of street lights which are LED (NEW)	7.7%	15.29%	1.32%	11.5%	1.12%
Availability	2b	Percentage of street lights not working as planned on any one evening	2.56%	0.41%	1.32%	0.0%	12.02%
	Stat	Number of night inspections annually	19	24	18	No data	0
Financial	35	Actual capital investment as a percentage of annual depreciation (from AMP)	65.52%	48.80%	No data	No data	17.9%
	36	Depreciated Replacement Cost (DRC) as a percentage of Gross Replacement Cost (GRC)	52.82%	52.04%	No data	No data	37.51%
	33	Average cost (client) of repairing routine faults (eg component replacement)	£88.31	£59.58	No data	No data	No data
	34b	Individual cost of night inspecting a street light per light	£0.055	£0.06	No data	No data	No data
	42	Revenue allocation per street light excluding electricity costs	£40.33	£31.76	No data	£18.58	£74.69
	43	Capital allocation per street light - replacement	£32.75	£41.96	No data	£18.00	£12.49
	1a	Total investment in infrastructure per street light	£72.99	£73.72	No data	£36.58	£87.18
Environmental	18b	Average annual electricity consumption per street light (kWhrs))	388.96	340.22	No data	378.48	595.18