



Joint Street Lighting Committee

18 September 2017

Street Lighting PFI Performance Report for 1 July 2016 to 30 June 2017

Report by:Paul Nelson, Environmental Sustainability and Street Lighting
Manager, North Tyneside Council

Ward Implications: All

For Information

1. Summary

1.1 At its meeting in August 2016, Joint Street Lighting Committee agreed that officers should review the performance information presented in this report to ensure it is meaningful and prioritises the most useful information. For example, committee agreed that the report should include a section on electricity consumption, something that had previously not been included.

This report therefore details the performance of the service provider between July 2016 and June 2017 and includes additional details on electricity consumption, spend and reduction programmes.

2. **Recommendation**

2.1 Committee is recommended to receive this report for information and note the comments on performance.

3. Introduction/Background

3.1 This report covers the period between the 1 July 2016 until the 30 June 2017 and outlines performance against a number of contract performance standards and local indicators.

4. Key Issues and Progress

4.1 **Contract Monitoring General Comments**

4.1.1 There are a small number of instances when the time taken to repair a fault by the District Network Operator (Northern Powergrid) exceeded the 30 day target. There are no instances when the time taken to repair a fault by SSE exceeded the 5 day target.

There are no other performance concerns to highlight. The performance standards are detailed in Appendix 1.

4.2 **Performance Standard 1** – Monitors the Initial Asset Renewal Programme (IARP);

As we are now beyond the IARP period, PS1 now shows the total number of street lighting apparatus in each Local Authority area.

- 4.3 **Performance Standard 2** Monitors the percentage of lighting apparatus in lighting across the month. Example values are given. Contract targets are being met.
- 4.4 **Performance Standard 3** Monitors responsiveness to repairing faults;
 - Criteria A Emergency response currently achieving 100% attendance within one hour.
 - Criteria B Performance in this area is satisfactory.

4.5 **Electricity consumption and spend;**

Both Authorities are consuming less electricity than the contractual forecast. Commentary is given on progress towards making further efficiencies through the introduction of LED lighting.

4.6 **Financial**

4.6.1 Contract payment is by means of a unitary charge which would be subject to deductions and penalties for poor performance. Details of the payments and penalties are detailed in the confidential Finance Report.

5. What Happens Next

5.1 Six monthly performance reports will be presented at future Joint Street Lighting Committee meetings. The 2018 timetable is to be confirmed.

6. **Further Information**

- 6.1 Background papers are held by;
 - P. Nelson 0191 643 6467 North Tyneside
 - N. Eglintine 0191 211 5269 (x 25269) Newcastle





JOINT STREET LIGHTING COMMITTEE

PFI Progress Report for 1st July 2016 to 30th June 2017

Performance Standard 1 - Total Number of Street Lighting Apparatus

	Newcastle	North Tyneside		
Month	No. of street lighting	No. of street lighting		
July 2016				
July 2010	39,955	30,773		
August 2016	39,969	30,756		
September 2016	39,977	30,782		
October 2016	40,000	30,775		
November 2016	40,029	30,783		
December 2016	40,046	30,786		
January 2017	40,056	30,798		
February 2017	40,073	30,822		
March 2017	40,314	31,111		
April 2017	40,323	31,141		
May 2017	40,334	31,147		
June 2017	40,327	31,150		

Month	Newcastle		North Tyneside		
	% of Apparatus in Lighting (Target)	% of Apparatus in Lighting (Achieved)	% of Apparatus in Lighting (Target)	% of Apparatus in Lighting (Achieved)	
July 2016	98.50%	99.80%	98.50%	99.66%	
August 2016	98.50%	99.76%	98.50%	99.78%	
September 2016	98.50%	99.60%	98.50%	99.64%	
October 2016	98.50%	99.52%	98.50%	99.53%	
November 2016	98.50%	99.67%	98.50%	99.48%	
December 2016	98.50%	99.62%	98.50%	99.68%	
January 2017	98.50%	99.69%	98.50%	99.66%	
February 2017	98.50%	99.78%	98.50%	99.62%	
March 2017	98.50%	99.68%	98.50%	99.49%	
April 2017	98.50%	99.82%	98.50%	99.64%	
May 2017	98.50%	99.78%	98.50%	99.64%	
June 2017	98.50%	99.77%	98.50%	99.60%	

The performance is calculated in the following way, using July 16 as an example;

	Newcastle	North Tyneside
The total number of units in the area	39955	30773
The total number of days in the month	31	31
The total number of units that failed	302	418
The number of days in the scouting period	31	31
The average number of days to repair a fault	1.62	1.52

The above values are input into a deduction formula and an output value is obtained. If the value is equal to or exceeds 98.5% there is no deduction.

Performance Standard 3 Emergency Faults Criteria A

Month	New	castle	North Tyneside		
	Number of Emergency responses	Number of Emergency responses attended within 1 hour	Number of Emergency responses	Number of Emergency responses attended within 1 hour	
July 2016	10	10	11	11	
August 2016	14	14	6	6	
September 2016	17	17	5	5	
October 2016	12	12	8	8	
November 2016	20	20	11	11	
December 2016	11	11	4	4	
January 2017	15	15	6	6	
February 2017	14	14	10	10	
March 2017	16	16	10	10	
April 2017	8	8	7	7	
May 2017	11	11	9	9	
June 2017	6	6	9	9	
Number of Hours in excess of the 1 hour response time	0		()	

PERFORMANCE STANDARD 3 Criteria B

Newcastle repairs performance

	S	SE repairs - Targ	et 5 work	ing days		Northern	Powergrid repairs	s - Target	30 worki	ng days
	Number of faults / instances	Number repaired within target	% within target	Av time	Max time	Number of faults / instances	Number repaired within target	% within target	Av time	Max time
Jul-16	302	302	100%	1.62	5	5	5	100%	17.40	19
Aug-16	337	337	100%	1.70	5	8	7	88%	35.13	112
Sep-16	448	448	100%	2.13	5	9	9	100%	19.44	26
Oct-16	517	517	100%	2.24	5	13	13	100%	18.08	29
Nov-16	392	392	100%	2.04	5	10	10	100%	16.00	20
Dec-16	418	418	100%	2.16	5	6	6	100%	11.17	13
Jan-17	429	429	100%	1.73	5	7	4	57%	28.33	49
Feb-17	305	305	100%	1.70	5	14	13	93%	20.29	143
Mar-17	422	422	100%	1.83	5	15	14	93%	18.23	149
Apr-17	274	274	100%	1.57	4	5	4	80%	17.80	53
May-17	305	305	100%	1.72	4	5	5	100%	19.40	29
Jun-17	359	359	100%	1.53	4	7	7	100%	22.57	26

PERFORMANCE STANDARD 3 Criteria B

North Tyneside repairs performance

	SSE repairs - Target 5 working days			Northern	Powergrid repair	s - Target	30 worki	ng days		
								0 (
	Number	Number	%			Number	Number	%		
	of faults /	repaired within	within		Max	of faults /	repaired within	within		Max
	instances	target	target	Av time	time	instances	target	target	Av time	time
Jul-16	418	418	100%	1.52	4	5	5	100%	18.60	24
Aug-16	192	192	100%	2.15	5	9	9	100%	23.57	27
Sep-16	324	324	100%	2.06	5	6	6	100%	22.83	25
Oct-16	483	483	100%	1.81	5	8	8	100%	19.00	25
Nov-16	309	309	100%	3.11	5	9	9	100%	16.00	18
Dec-16	323	323	100%	1.84	5	6	6	100%	16.83	25
Jan-17	275	275	100%	2.31	5	7	7	100%	17.86	22
Feb-17	319	319	100%	2.18	5	8	8	100%	18.63	25
Mar-17	402	402	100%	2.39	5	7	7	100%	13.57	26
Apr-17	320	320	100%	2.12	4	5	4	80%	41.40	185
May-17	415	415	100%	1.61	4	4	4	100%	14.25	20
Jun-17	418	418	100%	1.81	5	7	6	86%	82.57	460

12 months to;	Jun-13	Jun-14	Jun-15	Jun-16	Jun-17		
Forecast consumption kwh	23,427,356	23,427,356	23,427,356	23,427,356	23,427,356		
Actual consumption kwh	23,129,187	23,190,208	23,059,262	22,945,520	22,413,025		
	-	-	-	-	-		
Difference kwh	298,169	237,148	368,094	481,836	1,014,331		
Actual Energy Cost	£2,207,579	£2,307,249	£2,346,898	£2,440,455	£2,476,578		
Forecast cost at current unit rate							
Avoided costs					£146,583		

Newcastle Electricity Consumption



The table and graph above show the electricity consumption forecast included in the contract with SSE and the actual billed electricity consumption to the Council. Following the scheme that introduced some dimmed lighting to housing estates in the City and brought consumption down to the contractual cap, Newcastle's electricity consumption has been fairly stable.

Had the Council been consuming the forecast electricity of 23,427,356 kwh's at the current unit rate, it would be paying £147k extra in electricity charges.

Furthermore, officers are currently developing the business case to replace all street lamps across the City which will deliver significant kwh and financial savings.

North Tyneside	Electricity	Consumption
----------------	-------------	-------------

12 months to;	Jun-13	un-13 Jun-14		Jun-16	Jun-17			
Forecast consumption kwh	17,611,959	17,611,959	17,611,959	17,611,959	17,611,959			
Actual consumption kwh	17,450,782	17,242,766	14,559,967	13,997,515	13,870,521			
	-	-	-	-	-			
Difference kwh	161,177	369,193	3,051,992	3,614,444	3,741,438			
Actual Energy Cost	£1,667,454	£1,720,218	£1,477,701	£1,481,497	£1,556,902			
Forecast cost at current unit rate								
Avoided costs								



The table and graph above show the electricity consumption forecast included in the contract with SSE and the actual billed electricity consumption to the Council. North Tyneside Council has enjoyed significant kwh consumption savings through its dimming, trimming and part night switch off programmes, as witnessed from June 2014 to June 2015.

Had the Council been consuming the forecast electricity of 17,611,959 kwh's at the current unit rate, it would be paying £448k extra in electricity charges.

Furthermore, starting in June 2017, the Council is installing LED lighting to 7300 columns and this will further reduce consumption and produce almost £500k in energy, maintenance and carbon charges.