

Derby City Council – Response
ID Reference FOI672407364
Date 24 January 2025

Information Requested	Response
<p>Here is the request information:</p> <p>I have some further questions regarding street lighting within the City of Derby.</p>	
<p>1.Please refer to the response in question 7 of FOI650706735. You stated that you have looked into LED replacements on other main roads across the city but that this would be subject to funding available.</p> <p>a.What LED replacements on main roads have you looked into? Could you please provide me with whatever information is available to date in regards to this?</p>	<p>There is no further information available other than what was provided in the previous FOI.</p> <p>The choice and selection of the LED's for main roads will be determined by choice of preferred supplier and the luminaire output that meets the needs of the highway and the appropriate standards.</p>
<p>2.Please refer to FOI036283531. You stated that you are expecting the remaining units to be replaced with LED's by 2028/29 and there is potentially circa 7,700 units in the potential programme.</p>	
<p>a.Will the majority of these 7,700 units be on traffic routes as I know the vast majority of residential streets have had their lamp heads replaced with LEDs already.</p>	<p>Yes, apart from the small stock of residential heritage and public realm lighting we have.</p> <p>The remaining units will be replaced subject to funding. As a local authority, we are facing unprecedented demands and pressures on existing budgets and our priority, every financial year is to deliver a 'balanced budget'. We are constantly reviewing the financial situation and will look to any possible funding that can deliver an 'invest to save' approach without compromising other service needs.</p>
<p>b.How is it decided what size LED lantern to install on columns as I have noticed that some</p>	<p>You will find most of the LED's have the same size body, the difference is the LED array (optics) housed inside. They have the capacity</p>



residential streets have LED lanterns which are a very similar size to those installed on main roads whilst others have much smaller LED lanterns installed on them.	to house a number of LED banks and can be removed or added too. For instance, a residential street may only have one bank serving 8 LED's whereas on a traffic route the whole lantern may be occupied with three banks housing 30 LED's. All of this is determined at the design stage and by selecting the luminaire.
c.What is the likelihood of traffic route columns with the CMS feature installed being replaced with LEDs during the remainder of the PFI contract (before 2032)?	It is a possibility, but not guaranteed. Again, it comes back to funding and the council's financial position.
d.Do you have an approximate number of columns which won't have their lamp heads replaced with LED's at any point in the future due to the units not being suitable to have LEDs installed on them?	Ideally, we would look to swap everything to LED. There are no columns whereby LED's would not be suitable.
Generic questions not specific to a previous FOI request.	
3.Over the past 5-10 years, I have noticed that a number of columns not replaced during the PFI have had received a 'painting' treatment so that they are a similar colour to columns installed during the PFI.	All non PFI columns that do not have a thermoplastic finish are subject to periodic painting.
4.Are there still many columns to receive this 'painting' treatment before the end of the PFI contract in 2032? If so, what is the approximate number and what time period will this be over?	Approximately 6000 paints will be completed between 2025 & 2032
5.I have also noticed that there are a number of columns replaced during the PFI that the 'coating layer' has started to 'fade/peel' as they are now	There is no planned programme of works before the end of the PFI.

approx. 12-17 years old. Is there any plans at any point to 'repaint' some of the columns installed during the Core PFI period (2007-2012) or is this not currently in the pipeline before the end of the PFI?	
6. When the PFI contract enters the final year in 2031/32, will there be a full review of the condition of all assets? If so, what will this consist of? Are there likely to be any column replacements in this final year, particularly if it is evident that the eldest columns are deteriorating and are approaching the end of their lifespan?	There will be a full review of the asset condition before 2032. Any columns deemed to be life expired will be replaced.
7. Are there currently any proposed improvement works planned on traffic signs such as replacing the lights with more modern LEDs as I know these already have LEDs installed but I'm aware that LED technology was relatively new when a lot of these units were installed.	The LED arrangements on the traffic signs have improved over time, moving from 12w to 3w. However, given the small, negligible savings in energy, it would not be cost effective to make the change (the investment would be far greater than the return).
8. Please refer to question 2 of FOI603393020. I requested a document containing a full list of street lighting assets which I gratefully received. However, having reviewed the sheet thoroughly, I believe the document has not been fully updated as some columns are listed with an install date of '01/01/1985' when I know these columns were replaced during the PFI a few years ago and there are no	<p>The 01/01/1985 was a pre-loaded date for columns that were installed by the authority, before the PFI, but no data was held for a specific installation date. Based on type of column, location and local intelligence, the year 1985 was used, but we appreciate it's not an exact science.</p> <p>We have prepared an Excel file with our best attempts at matching the information you have requested. Please see attached.</p>



<p>longer any columns installed in the 1980's.</p> <p>Please could the above be checked to see if it is the same as your most recent records.</p> <p>Could you please also re-send me a full list of lighting assets containing both street lighting columns and traffic signs with the following (if these are all available):</p> <p>Unit no.</p> <p>Street name</p> <p>Lantern type i.e LED/CPO/SON/SOX</p> <p>Lantern wattage</p> <p>Installation date</p> <p>Height and type i.e standard, tapered, heavy duty, raise & lower, sign pole, feeder pillar etc.</p> <p>Route type i.e residential, distributor, main, trunk road etc.</p> <p>CMS / Non-CMS</p> <p>DNO or Private</p> <p>Post Top / Single</p>	
<p>9.I have noticed that some columns on main roads / distributor road have a 'golden light' whilst others have a 'white light'. I'm aware that this is was determined based on the road classifications at the start of the PFI. As the lanterns with a 'golden light' begin to require replacement, will they continue to</p>	<p>These will be High Pressure Sodium lights and Ceramic Metal Halide with a colour temperature around 2,000 kelvin. Any replacements to these light will be delivered using LED's, and with a colour temperature of 3,000 kelvin, so a little whiter than the existing, but not as white as earlier LED technology used, such as 4,000 kelvin.</p>



be replaced with a 'golden light' bulb or are they likely to be replaced with a 'white light' bulb, or even an LED upgrade?	
Columns in the Pride Park area of the city.	
a.What is the approximate lifespan of the columns installed in the Pride Park area (Pride Parkway, Royal Way, Derwent Parade etc)?	Column life would be over 50 years
b.What type of lanterns are used in these columns, are they SOX, SON or another type?	These use SON lamps
c.Are these lanterns likely to be replaced with LED's at any point in the remainder of the PFI? If they were to be replaced, would the LED fixture likely to be installed on the bracket or would the bracket likely be removed?	This would be a design decision at the time, but it would likely be a bracket.

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