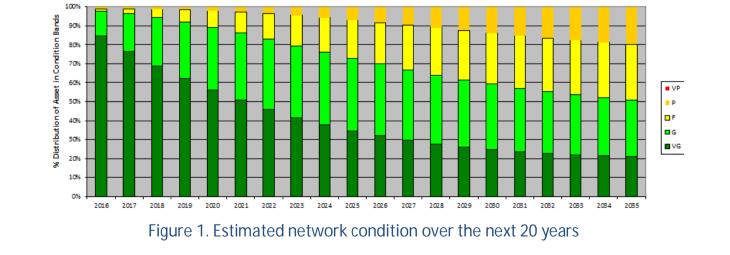


Working for Herefordshire

Street Lighting Lifecycle Plan Summary

Inventory Condition		Performance Requirements		
The street lighting network is composed by:		The street lighting network is managed to deliver the following levels of service:		
Street lighting assets	Units (approx.)			
Columns	11,867	• Safety: assets are to be structurally and electrically		
Lit Signs	1,022	safe to road users and maintenance staff;		
Street Light (Unit)	562	• Serviceability: roads and footways lit to the standard;		
Bollard	451	• Affordability: the network should provide cost-		
Belisha Beacon	50	5		
Others (feeder pillar, school flasher, subway lighting, hat pins)	103	 effective lighting to public areas; Availability: all lights should be working as planned; 		
A full survey in 2011 established the following:		 Environmental: the network should contribute to low 		
Condition	Percentage	levels of light pollution and energy consumption.		
Very good (VG)	93%	All sections of the network are to be maintained to the		
Good (4%)	4%			
Fair (1%)	1%	safety standards set out in the 'Highways Maintenance		
Poor (1%)	1%	Plan'.		
The majority of the poor and very poor columns were replaced in 2015.				
Current Asset Value and Deterioration				
The value of the street lighting network is:		The budget considerations adopted for the street lighting network are:		
New build costs (2015) £15,078,000		Funding required to restore to new £8,200,0	000	
Depreciated value (2015)	£6,470,000	condition:		
Annual Depreciation	57%	Annual depreciation (2015) £533,00	00	
		Budget (2016/2017) £83,00	0	
Note the above figures do not yet take account of the recent investment in columns and lamps.				
Maintenance Strategy				
Between 2012 and 2015, the County's street		Following this investment, a short period of lower		
lighting network was subject to a major		maintenance need is anticipated, prior to the		
investment programme. The programme aimed		requirement to replace columns that come to the end		
at replacing around 3,000 obsolete concrete				
at replacing around 3,000 0		of their lives increasing in 2020 onwards. The below		

at replacing around 3,000 obsolete concrete columns and upgrading all the lanterns to LED technology. This investment has enabled a major reduction in energy use, maintenance need and an increase in quality and reliability of public lighting.



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Street Lighting Lifecycle Plan Summary

Routine Maintenance Strategy (Revenue)	Structural Maintenance Strategy (Capital)	
Routine (and reactive) works are coordinated centrally in a control centre to ensure a productive and prompt service is provided. Routine maintenance is supported by structural and electrical inspections that occur on a six year cycle. Usually, around 2,500 columns are inspected per year. Inspections are supported by modern technology such as mobile computer tablets that help the Council staff to identify and record those defects and plan their intervention. Due to the recent upgrade to LED, the amount of reactive changing of bulbs is due to dramatically reduce in 2016.	Capital works will focus on replacement of the small number of columns that come to the end of their lives until 2020. Deterioration models have shown that the number of columns needing replacement will increases substantially to around 100 per year. These values do not include the number of columns that need to be reactively replaced due to vehicle accident	
Revenue Investment	Capital Investment	
$ \begin{array}{c} 500 \\ 400 \\ 300 \\ 200 \\ 100 \\ 0 \\ 101 \\ $	6 6 6 7 4 3 2 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4	
Figure 2. Past and estimated revenue investment	Figure 3. Past and estimated capital investment	
Routine Maintenance Process	Structural Maintenance Process	
Defects are identified through regular safety inspections, asset condition inspections and enquiries from the public. They are categorised and responded according to the guidelines of the 'Highway Maintenance Plan'. Response times are based on the risk presented by the defect. Apart from the highest risk defects that are responded to within 24hrs, all Cat 1, 2A & 2B defects have permanent fixes carried out.	 Programmes of work and future condition predictions have been developed using the specialist street lighting software <i>Mayrise</i> and the HMEP's lifecycle planning toolkit. Forecast condition and funding requirements are based upon historic recorded deterioration rates, current costs as well as assumed inflation (3%). Column replacement is based upon risk presented by the asset. 	



