

STREET LIGHTING

The past
The present
The Future

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■ **THE PAST**





■ **THE PRESENT**



DMBC - SMARTLIGHT

Doncaster Council's Smartlight project is a scheme to completely modernise Doncaster's residential street lighting.

Existing street lamps are being replaced with new LED lamps which will result in better quality lighting, a reduced carbon footprint and financial savings.



33,000

Street lights being replaced with Light Emitting Diode (LED) lamps



What is the new LED technology?

LED lighting is an instant light that can be switched on and off without the need for a warm-up period. The light given out by the lamps is much whiter and clearer than existing lamps, most of which emit a yellow light.



How much will it cost?

We are investing £8.2m in the new technology, which is mostly funded by an environmental loan from a company called SALIX. Our investment will pay for itself in 8 years, after which we will save £1.3m per year compared to the cost of running our current streetlights. This means Doncaster's street lighting energy bill will be reduced by 70%.



How much energy will this save?

The new lights will be more energy efficient and cheaper to run. They are designed to last for 100,000 hours, which

means around 25 years. Our existing lights only last up to six years before they need to be replaced. As well as making savings, we will reduce the council's carbon footprint by 80% or 4,700 tonnes.



What are the benefits?

The service will improve, including the use of a computer management system which will identify faults automatically, sometimes before the light actually fails, so residents will no longer need to report faulty street lights to the council. As well as saving money, Doncaster's new street lights will reduce energy consumption, carbon emissions and pollution. Future maintenance costs will reduce greatly.



Will Doncaster Council be switching off street lighting at certain times?

No. Doncaster Council will not be switching off lights. There will be a lighting level which meets the needs of residential streets and areas, with an enhanced level where higher levels of lighting is needed. For example outside shopping areas, or pubs until closing times.



Are other councils in the South Yorkshire area doing this?

Yes. Sheffield, Barnsley and Rotherham are all investing in the new technology.



Fitting LED bulbs will save the council
£1.3m
per year



How will this work affect me and what disruption can I expect?

When carrying out the straight forward replacement of the lanterns in your street, the work should take approximately 20 minutes per street light to complete. There will be some instances where additional work is necessary, which may take longer to complete. Please be assured that wherever possible, the old street lights will remain in place, until the new LED lights are operating.



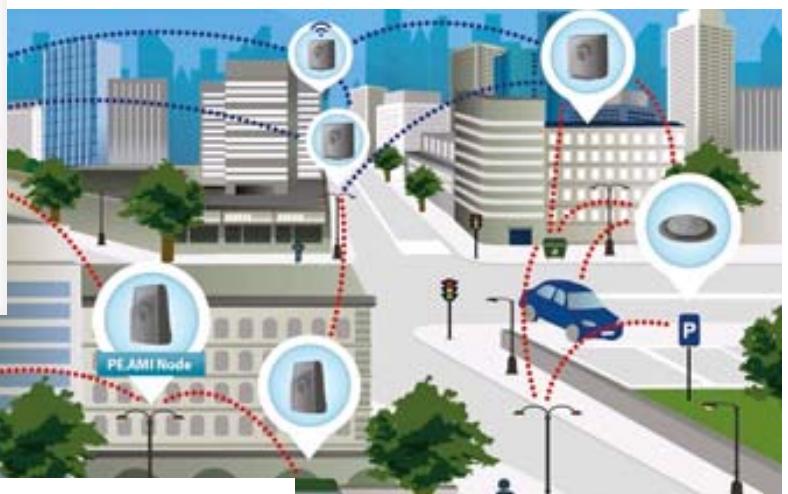
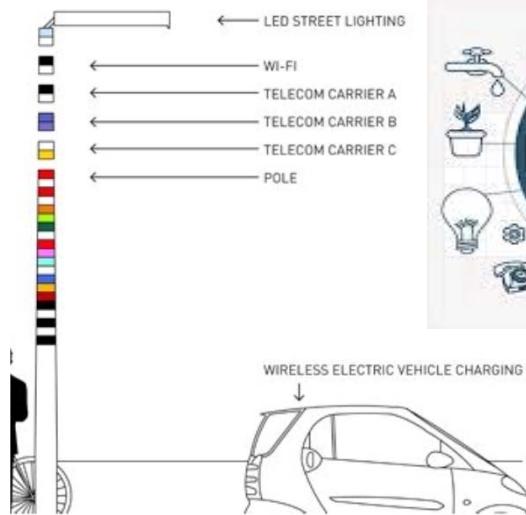
My street seems darker since the fitting of the LED lights. Why is this?

When lighting areas with new lights, the standards require the lighting levels to be slightly adjusted to prevent glare or dazzle. The purpose of street lighting is to light roads and footpaths. The new lanterns do this better but, because the light is directed towards the road, it does not spill over into people's homes or gardens in the way that the old lanterns did. The quality of light on the pavements and the roads is improved with LED lanterns and is no darker.



How will the new lights affect safety?

The white light, as opposed to the traditional orange light, allows for better recognition of colours. This enables road markings, signs and people to be identified more easily. When needed, CCTV recognition will also be greatly improved by the new white light. There will be the ability to 'adjust' lighting at an individual column level, to meet localised needs or to brighten areas as necessary, for example if there is a police incident or to improve safety for people leaving an evening community event.



■ THE FUTURE

- Connected cities
 - Energy efficient dynamic lighting
 - Smart navigation
 - Movement detection
 - Advanced parking
 - Pollution monitoring
 - Wifi services

