

Your ref:

Our Ref: 30/Gen/LED Project

Contact: **Paul Gilmore**

Date: 21 November 2017

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Dear Sir or Madam

Street Lighting Improvement

As a result of large increases in energy costs and EU legislation effectively banning many existing street lighting lantern types, North Yorkshire County Council has commenced an ambitious programme to replace all its standard street lighting with LED technology.

In September the Council's Executive Members approved the first £2million of a £12.9million programme to replace around 44000 street lights with the more energy efficient LED equipment.

The accelerated lantern replacement programme is expected to be completed by March 31st 2020 with an anticipated pay back within 10 years, at current energy rates. It is anticipated that the completed programme will offer annual savings of over £1.2 million.

Energy Savings (≈£1.005million) – Energy costs for the existing non-LED lanterns stands at £1.87million. It is important to note that as energy prices increase the projected saving increases proportionately.

Maintenance Savings (≈£280k) – Existing street lighting is maintained on a 2 or 4 year cycle depending on the lamp type and we are currently experiencing an 8 - 9% failure rate each financial year.

The preferred lantern has a full 20 year warranty therefore there will be no materials cost in the event of a failure within that time period and maintenance cycles can be extended to 6 years. The nature of LEDs is such that bulk lamp replacements are no longer required which minimises cyclical maintenance requirements. It is anticipated that defects will be reduced to around 4-5% per year.

LED lanterns direct more of the available light down onto the highway which has the added benefit of reducing light pollution (sky glow). By using all the available light to illuminate carriageways and footways we are able to minimise the required wattages on the new lanterns. This will facilitate a reduction in the Council's annual carbon consumption of over 3000 tonnes.

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All lanterns will be future proofed to facilitate any Smart Cities initiatives that the Council may wish to pursue.

We have prepared a number of Frequently Asked Questions (FAQs) which your Councillors may find useful if queried by members of the public regarding this project. The FAQs can be accessed using the following link:

<https://www.northyorks.gov.uk/street-lighting-energy-reduction-programme>

Where possible, we will contact the local Parish Council prior to any work taking place.

Parish Councils that already use the County Council's street lighting maintenance contract will be aware of the changes to EU legislation and the benefits of LED technology. If this is something that your Council would be interested in or should your Councillors have any additional queries please contact the Electrical Engineering Team on 01609 532931 or by email at roadlighting@northyorks.gov.uk

Yours faithfully

Paul Gilmore

Paul Gilmore
Electrical Engineering Manager