

LINCOLNSHIRE RETROFIT SCHEME

Spanning one of England's largest rural counties, Lincolnshire's street lighting network plays a vital role in keeping communities connected and safe. From historic market towns to busy urban centres and rural roads, thousands of lanterns light the way for residents, businesses and visitors alike.

Lincolnshire County Council has worked with TRT Lighting since 2015 to deliver reliable, efficient, and sustainable street lighting solutions. As part of its ongoing commitment to carbon reduction and cost-savings, the Council sought to cut energy consumption while extending the service life of existing lanterns.

Rather than discarding perfectly good lantern bodies, the decision was made to retrofit them with new LED technology, a solution that met the Council's goals for sustainability, efficiency, and long-term value.

To date, the project has already achieved more than 65% reduction in energy consumption compared with a 2016 baseline, through the introduction of LED technology, dimming, and part-night operation.



SOLUTION

TRT designed and supplied bespoke retrofit solutions to upgrade lanterns across the county. A total of 5,400 units are being installed, covering models such as Arc 80, Iridium, Evolo 2, Sapphire 1 and Sapphire 2. The [retrofit trays](#) allow existing lantern housings to remain in use for a further 10–20 years, dramatically reducing waste while lowering capital and maintenance costs.

All retrofit units were rigorously tested in TRT's LIA-accredited laboratory to ensure compliance with light levels, uniformity, thermal performance and expected lifetime. Each unit is supported by a five-year warranty, backed by TRT's UK manufacturing and engineering expertise.



CASE STUDY

LINCOLNSHIRE RETROFIT SCHEME



☐ DARK SKIES ☐ ECOLOGY ☒ APPLICATION IMPROVEMENT ☐ NEW INSTALL ☒ RETROFIT



An innovative luminaire configuration solution that puts complete control in your hands. Using a simple remote control, end users can effortlessly program power levels, lumen output, Constant Light Output (CLO), and Part Night Dimming regimes, all without opening the luminaire.

Designed exclusively for TRT Lighting products, PowerSet NFC streamlines commissioning, reduces stock holding, and delivers ultimate flexibility in lighting performance.

OUTCOME

The retrofit programme is ongoing throughout 2025 and already delivering clear benefits:

- Over 65% energy savings and reduced CO₂ emissions
- Circular economy approach, reusing of lantern bodies to minimise waste
- Lower maintenance and extended asset life for long-term cost efficiency
- Streamlined installation – each retrofit can be completed in under ten minutes, reducing disruption and labour costs
- Trusted partnership built on the continued collaboration between Lincolnshire County Council, delivery partner Balfour Beatty, and TRT Lighting

This large-scale retrofit demonstrates how smart design and sustainable thinking can modernise existing assets, delivering both environmental and financial savings without the need for complete replacement.

Before



After



By reusing existing lantern bodies and introducing advanced LED retrofit technology, we are cutting energy use by over 65% while avoiding unnecessary waste. This project is a clear example of how innovation and partnership can help us reduce carbon emissions, save money, and extend the life of our assets.

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