



# Case Study

Darlington Borough Council, UK

THORN

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With Thorn Lighting



## **Background**

Darlington Borough Council chose to have a major refurbishment of residential and major roads. The vast scale of the refurbishment project meant that the replacement had to be split into phases and started with replacing the highest energy using lanterns on major roads in the Darlington area. After a successful initial phase the project has now spread out into residential areas with the majority of the new lanterns being retrofitted onto the existing street lighting columns but some older lighting columns have been replaced as and when required.

## **Objectives**

Thorn Lighting's highly efficient CiviTEQ LED lanterns have been used throughout the major refurbishment. The Thorn lanterns were the preferred choice when the council wanted to replace old existing SON lamp technology and move to a more efficient LED type luminaire to significantly reduce DBC's overall energy usage and CO<sub>2</sub> emissions.



### **Solution**

The CiviTEQ LED lantern can incorporate between 12-72 LEDs to suit the application and has 12 precise lighting distributions to allow for a variety of installation possibilities. The lanterns incorporate an R-PEC® optic to provide 'wide street' illumination to allow for efficiency and safety. The fitting is well-proportioned, compact and lightweight for easy handling and installation with low windage. CiviTEQ is available in two sizes, small and large and comes with a comprehensive range of controls incorporating a Bi-Power Switch to activate or de-activate dimming on-site.

Martin Clarkson, Street Lighting Engineer for Darlington Borough Council commented "The Thorn CiviTEQ LED lantern was chosen due to its efficiency, photometric performance, low maintenance requirements and ease of installation. It offers a wide range of lumen outputs and light distribution options. The lanterns are ordered with pre-set adaptive lighting controls to provide more measured illumination during specific times and greater energy savings".



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