

THORN

LIGHTING PEOPLE

Case Study

Salford, UK



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Salford City Council delivers LED street lighting retrofits for residential areas with Thorn Lighting

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To achieve energy efficiency, Salford City Council embarked on a major project to replace around 11 500 residential street lights. The previous lamps, which were based on high and low pressure sodium technology, were difficult and costly to maintain, and consumed more power than modern LED equivalents.

The organisation tasked with updating Salford's street lights is Urban Vision, a joint venture between Salford City Council, leading professional services firm Capita, and construction expert Galliford Try.

The Urban Vision and Thorn Lighting solution

After evaluating proposals from a number of leading lighting companies, Urban Vision chose Thorn Lighting to deliver Salford's streetlight upgrade. "Our request for proposal was heavily weighted on quality, energy consumption and delivery capability," says Evan Westby, project manager at Urban Vision/Galliford Try. "There was also the fact that Thorn is a proven supplier that has successfully delivered large LED street lighting projects around the UK."

To meet Urban Vision's requirements, Thorn designed a solution based on its Isaro LED lanterns, which can be configured with either 12, 24, or 36 LEDs. The drive current can be adjusted to meet brightness requirements, dimming hours are programmed according to the council's requirements, and an intelligent photocell turns lamps off automatically during daylight hours.

To configure each luminaire correctly based on the width of the road, the height of the column, the distance between columns and the correct lighting and glare levels, Thorn and Urban Vision design teams worked closely together.

Thorn delivered up to 500 luminaires weekly to Urban Vision, meeting the challenging project schedule. "We entered into a complex weekly cycle of design, ordering and shipping, and we were consistently impressed with Thorn's flexibility, responsiveness and ability to deliver on time," says Evan Westby. "We have successfully deployed all 9 000 luminaires that were part of the original tender and, based on the success of the project, we are now working with Thorn to deploy an additional 1 500 to 2 000 units around Salford."

Energy savings of 60%

In partnership with Thorn, Urban Vision has helped Salford City Council reduce energy consumption across its street light estate by around 60%.

Major maintenance savings

The maintenance savings delivered by the reliable, durable Thorn luminaires will ultimately be equal to or greater than the council's savings on energy costs.

Future-proof streetlights

With integrated 'drivers' to control drive current, dimming hours and more, Thorn streetlights can be reprogrammed, making them completely future-proof. "We can reprogramme the Thorn fittings easily to make them brighter or dimmer, or to come on and off at different times," says Evan. "That way, if a bus route is changed and more light is needed on a certain street, the light output can be easily adapted to meet those needs."



Product used



Isaro LED

Key facts

- 60% energy savings - 10% more than the original target
- Major maintenance savings
- Future-proofed streetlights that can be easily reprogrammed to meet the council's future needs

eControl From Thorn's 15 ways to save energy, the following are key to minimising energy consumption at Salford City:



System Efficacy

The Thorn Isaro LED luminaires combine optical and thermal controls to maximise efficiency and lumens per watt and optimise energy savings for Salford City Council.



Waste light

Thorn's LED luminaires allow light to be directed in an optimal way. Public areas are illuminated efficiently, with no unnecessary light directed towards residents' gardens or houses.



Maintenance schedule

By significantly reducing maintenance requirements, the Thorn streetlights will deliver impressive cost savings for the council over the next 20 years.



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