

## CASE STUDY

# Greenwood Academies Trust

### Overview

Greenwood has 37 academies educating over 18,000 pupils; operating across seven local authority areas primarily within the East Midlands area.

### Why?

A number of factors led to the decision to replace all mercury lighting with LED. Whilst it was an important pillar of their Net Zero strategy, failures of fluorescent bulbs were becoming problematic with issues on light quality, maintenance and replacements. In reaction to significant increases in energy cost the estates team accelerated implementation timescales.

### Why Energys?

A tender bid in 2021 through YPO for Barker Associates led to being awarded installations at 3 GAT Academies. This gave Energys the opportunity to demonstrate its expertise and ability to work to demanding targets - exceeding expectations both operationally and through the subsequent savings in time and cost delivered through the retrofit exercise. The successful outcome prompted GAT to accelerate action across the rest of their estate, and in conjunction with Barkers, awarded Energys the contract for LED Lighting upgrades at the remaining 23 sites. Energys prepared analysis of long-term savings in carbon and cost achievable through recommended intelligent lighting solutions, and was prepared to guarantee this to GAT in line with the company's promise.

### Challenges

GAT was keen to rollout the programme as quickly as possible, but specified that where possible works should be completed out of classroom hours or during holiday periods at all 23 schools. The schedule was fast-tracked

in line with the set criteria and the majority of works across all 7 local authority areas were delivered out of hours between October 2022 and May 2023.

### Solutions

Energy efficiencies were maximised through Campus-wide installations incorporating IntelliDim, Energys' advanced dynamic sensors that monitor light conditions and deliver only what is required per the specified room-by-room needs. Buildings were effectively future-proofed and the buildings management teams benefitted from eliminating time spent on maintenance and checking that lights are out when buildings are not in use, which is now all done automatically by IntelliDim.



### Projected impact

<b>Project quantum</b>	23 Academies
<b>Project Value</b>	£1.7 million
<b>ROI</b>	3 years
<b>No of Lights Replaced</b>	13,165
<b>Annual £ Savings</b>	£512,802
<b>Annual kWh Savings</b>	1,202,752

Elec rate is £0.45 per unit.

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