ESL Drive Lower Energy Consumption At West Lea School

THE BRIEF:
To provide the most efficient lighting method possible whilst improving existing light levels and reducing the school’s carbon footprint. West Lea School is a Specialist Sports College caring for pupils aged 4 – 19 with special educational needs located in the London borough of Enfield. The school have a strong dedicated team who provide the pupils with the best opportunities possible to achieve their potential.

In line with its drive to lower their energy consumption, the school contacted ESL to provide more energy efficient lighting throughout the whole school. The existing lighting consisted mainly of fluorescent tubes which consumed a massive 60,109 kW per year as the lights were found to be 1st and 2nd generation and as such highly inefficient, they were also constantly switched on during school hours.

The fluorescent lights were also difficult to maintain and so ongoing maintenance costs were found to be high. The school wanted to remove or hide unsightly wiring and conduit in the main corridor that had built up over the years through changes and technology upgrades.

QUICK FACTS:
73% Reduced Energy Costs
£ 4538 Annual Cost Savings
Payback 24 Months
Carbon Emission Saving 24T
THE SOLUTION:
Having completed lighting solutions for 100’s of schools, ESL were quickly able to produce a detailed solution to achieve the schools’ desired objectives. ESL also took into consideration a request for new emergency lights throughout and provided a comprehensive solution to address this issue.

The fluorescent tubes and fittings were quickly replaced with FLUX OVARA LED lamps and new fittings to provide a high, yet instant output.

ESL removed the unnecessary wiring and provided a false ceiling grid in the main corridor fitted with flush fitting FLUX LED PRIRIO panels to produce a smooth clean look that the school was after.

FLUX LED lamps offer a minimum lifespan of 50,000 hours which in a school environment would equate to over 10 years maintenance free lights.

THE RESULT:
The result meant that rather than costing West Lea School £6237 a year, their bills were reduced to £1654 per annum. Carbon tons were also reduced to 33T to 9T and a total reduction in energy costs of 73%.

The school were delighted by the results and customer service levels provided by the ESL team. The installation of the new FLUX LED lamps and fittings meant the school achieved its objective of substantially reducing its energy bill and carbon footprint.

The light levels were found to be significantly brighter than the old fluorescents and offered a more natural flicker free light which not only produced lower electrical and maintenance costs but improved light levels considerably offering a more uplifting and brighter environment for both staff and pupils.

“We were keen to look at ways to reduce energy costs and after speaking to Enfield Council considered the most cost effective solution was to upgrade our lighting. After contacting a number of lighting companies, the solution and quality of products provided by ESL was the best. Whilst substantially reducing energy and maintenance costs the light output has improved considerably.”

Paul Quinn, School Business Manager