

Case Study

Epping Forest Campus, New City College, SE England

- **Customer:** Epping Forest Campus, New City College, SE England
- **Technology:** LED lighting
- **Funding:** College (Self) – CapEx
- **Outcomes:**
 - Complete upgrade from fluorescent to LED lighting, involving more than 3,400 new fittings
 - Campus-wide installation includes IntelliDim LED Panels, LED Downlights and Wall Lights, IP65 Rated Fittings, and other products from the Energys range
 - Return on investment of 5 years predicted on a £300K total project cost
 - College expected to reduce its carbon footprint by 128.92 tons of CO₂ per year

**Energys Group
delivers complete
LED lighting
upgrade to
Epping Forest
college campus**



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PROJECT BACKGROUND

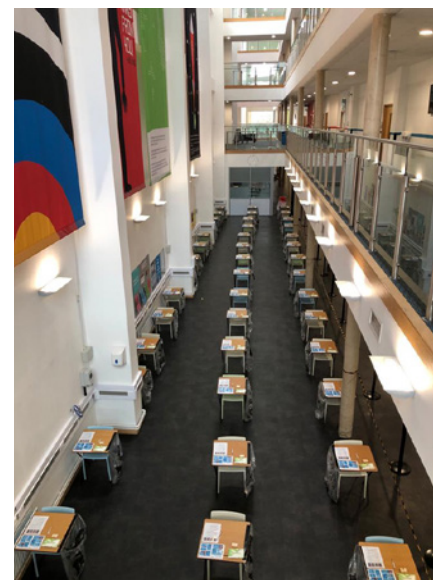
Located in the Essex town of Loughton, Epping Forest Campus is part of the New City College (NCC) group and regularly records exam results that are 4% higher than the national average. But while its academic standards might be formidable, its lighting infrastructure left much to be desired prior to a recent upgrade by the Energys Group.

“The college had no LED lighting at all and was entirely reliant on older fluorescent fittings,” recalls Energys Group account director Raj Gunasekaran. “The objective of this project was to achieve a complete transformation of the lighting, which ultimately involved changing a total of 3,478 fittings – every one on the campus.”

In approaching such a large upgrade it was surely beneficial that Energys already had a good working relationship with NCC, and in particular its group director of estates Ian Bartholomew. “Ian chose us because he had trust in Energys’ work following our delivery of LED lighting upgrade works at other NCC site, Hackney Campus between 2015 to 2017 on similar scale energy saving projects.”



Design work on the Epping Forest upgrade began shortly before the pandemic started in 2020. Subsequently, one of the college’s regular contractor partners was enlisted to undertake the on-site installation, which was completed in early 2021 when the college was largely unoccupied. “Due to Covid the campus was shut from December last year through to April, which meant the upgrade could be completed during normal hours in just four weeks. It was a very swift process,” says Raj Gunasekaran.





THE SOLUTION

With large high windows a defining part of the college's aesthetic in classrooms across the site, one of the key aims with the upgrade was to introduce dimming-enabled fittings. "The old fluorescent lighting was [on full] throughout the day whatever the operating conditions. With our daylight-dimming IntelliDim concept, it was apparent that they could reduce usage by at least 50% in good light conditions. Hence it's now set up that after a few minutes of no activity the lighting dims or goes

off altogether, then when someone comes into the room it goes back to full power," says Raj Gunasekaran, noting that Energys IntelliDim LED Panels and IntelliDim LED Linear Fittings have been installed in rooms across the campus.

Attention is also drawn to the "much enhanced" quality of lighting in the theatre and science labs, where there had been a long-term dependance on ageing T5 fluorescent tubes. "It was evident that our LED Downlights and LED Wall Lights could deliver a major improvement in those areas, and that

has proven to be the case," says Raj Gunasekaran.

In a project that entailed the specification of many current items from the Energys Group range, other products installed included:

- IP65 Rated LED Wall Lights
- IP65 Rated LED Linear Fittings
- Decorative LED Pendant Lights
- Decorative LED Uplighters
- Various emergency lighting fittings

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THE RESULTS

Energys' forecasts indicate that the campus will benefit hugely from its new lighting. On the back of a total project cost of £302,034 and expected annual energy savings of £60,849 (and 419,649 kW), it is projected that there will be a return on investment period of only 5 years. The upgrade is also good news for the environment, with the campus set to reduce its carbon footprint by 128.92 tCO₂ per year.

For more information on New City College's Epping Forest campus, please visit:

<https://www.ncclondon.ac.uk/epping-forest-campus>



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