



achieve more for less

London Southbank University  
Faraday Wing

During the summer of 2017, we were approached by the head of technical services at London South Bank University with a view into working on turning Faraday Wing into a smart building.

A large element of this project was the lighting and how it would interact with the building. The university was keen to enter discussions with Philips for this refurbishment. The existing lighting was energy heavy with no lighting control, costing the University money. The New lighting feature would cut costs and provide an overall better lighting solution. Unfortunately the funds available weren't enough to support Philips Power-Over-Ethernet (PoE) option but we were determined to find the right solution that would solve the issue and fit into the clients budget.

Qudos Energy had the knowledge to support this project and we were appointed as the Electrical designer. The solution was to fit three different systems, this way it would prove the versatility of the overall smart building control system.



The Project ran smoothly as follows:

- Floor One - Philips PoE system (Power over ethernet)
- Floor Two - Philips Dynalite – Dali
- Floor Three - Philips Interact Wireless Connected
- Systems for Floor One & Three had API (Application Programming Interface) this allows communication directly with the Tridium control unit. Level Two (Dynalite) communicates via a BACnet controller.
- In summer 2018 Qudos Energy carried out the electrical refurbishment of Faraday Wing.
- The project was completed in September 2018 and students are now enjoying the new facility.
- The next phase of works are to make the building fully smart working with room booking, heating/cooling, lighting & way finding



# 1<sup>st</sup> Floor LuxSpace PoE Lighting

With Power-over-Ethernet (PoE) technology, LuxSpace PoE receives power and data over a single standard Ethernet cable, eliminating the need for separate power cabling. With the simple click of a connector, LuxSpace PoE luminaires become part of a complete, integrated connected lighting system, delivering extraordinary illumination experiences and value beyond illumination. A built-in lighting and control system gives office users personal control over their preferred light settings via a specially designed smartphone app.

With integrated sensors, LuxSpace PoE luminaires can track:

- Activity patterns
- Daylight levels
- Humidity
- CO2 Levels,
- temperature.

This data allows facility managers to gain deep insight into building operations, helping them optimize the delivery of resources, enhance the experience and performance of occupants, and support improved asset management.



# Dali Dynalite

Intelligent lighting controls from Philips Dynalite deliver significant savings in energy costs as well as ensuring optimum comfort for occupants.

Dynalite controls can switch lights off when no one is around, automatically adjust lighting levels based the amount of natural daylight available in the space, and switch off or dim lights based on the daily office cycle.

Scene plates were fitted throughout teaching spaces where control was required, absence and presence detection was provided through the Drynet bus.

Qudos recognised that this would help save the overall energy cost if installed through the building and help fit the required elements provided by Phillips.



# Wireless InterAct

InterAct, the connected lighting system from Philips Lighting, enables you to harness the Internet of Things to transform your building and save up to 80%\* on energy.

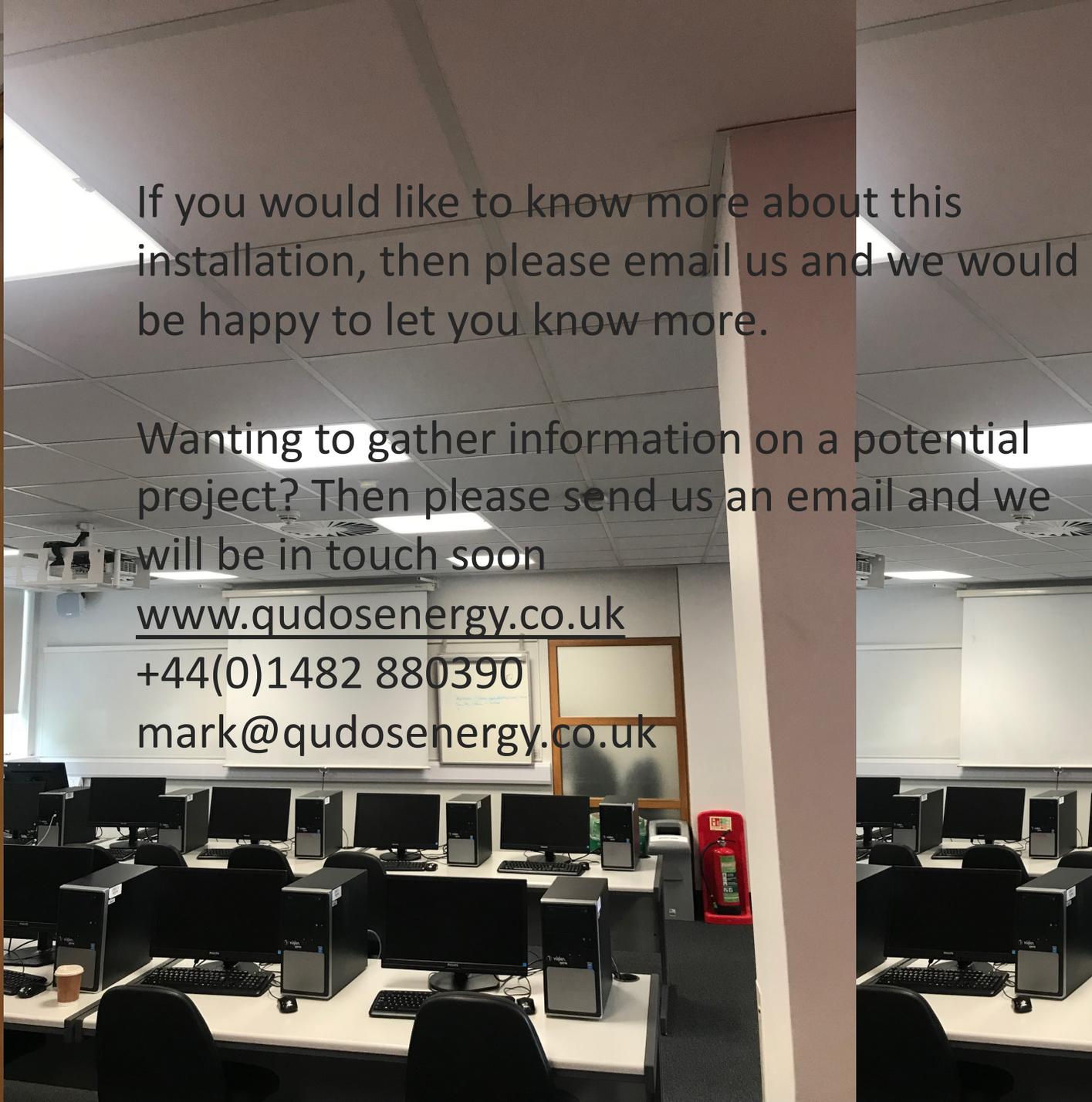
LED luminaires with integrated sensors collect anonymised data on lighting performance and how workers use the workplace. Workers can use software apps on their smartphones to book meeting rooms, navigate within the office and personalize the environment around their workstation further improving productivity and employee engagement.

The smart lighting system with open API integrates seamlessly with the IT system. Wireless switches were installed for controlling the lighting where projectors were in use. All of these elements were carefully planned using our expert knowledge and the project has been a huge success





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If you would like to know more about this installation, then please email us and we would be happy to let you know more.

Wanting to gather information on a potential project? Then please send us an email and we will be in touch soon

[www.qudosenergy.co.uk](http://www.qudosenergy.co.uk)

+44(0)1482 880390

[mark@qudosenergy.co.uk](mailto:mark@qudosenergy.co.uk)