CASE STUDY

Haydn Ellis Building, Cardiff University

The Haydn Ellis building is a striking five-storey postgraduate research facility at Cardiff University, used for studying cancer, neurosciences and mental health. Internally, the building is formed of two blocks with a central atrium and will include a café, seminar suite, support services and administrative facilities. Working rooms will be light, airy and comfort cooled. Cutting edge sustainability features include natural ventilation, passive shading, and energy efficient lighting and control systems.

Open Technology's LiGO system controls the lighting throughout the building. From the architectural lighting in the Atrium to the teaching spaces and labs, LiGO is able to provide the most energy efficient lighting operation for each area.

LiGO also carries out the testing of all emergency lighting, performing a weekly functional test and a quarterly duration test with all the results emailed to the estates department for record purposes.

There are 8 LiGO's on site configured to control some 600 lighting groups. LiGO's ability to 'connect to Trend' makes the DALI lighting controllable from the campus-wide Doorway supervisor that looks after 900 Trend Controllers. LiGO's flexibility also meant that commissioning could be carried out quickly as different areas could be completed at the same time as they were out of action for other trades. Using LiGO significantly reduces the amount of electrical circuit testing on the site, which further cuts costs.

"We now have quite a few LiGOs around campus and can utilise any type of DALI lighting manufacturer which is a bonus for competitiveness in today's market. We are scene setting a number of our lecture theatres and cinema standard areas with LiGO now in place of older Crestron dimmers. We are also using LiGO to dim our LED lighting."

- Keith Sims, Head of Estates Maintenance at Cardiff University

Functionality

Scene Setting
Light levels and effects can be programmed according to the changing uses of a building, these can then be automatically programmed, controlled via web log-in or changed at the touch of a button.

Dimming
Light levels can be controlled according to changing uses of the building, for example lowering output when the building is being cleaned in the evenings. This drives further savings whilst ensuring the building is still functional.

Emergency Lighting
LiGO's simple built-in 'Test Scheduler' enables functional and duration tests to be set up then executed automatically. Results can be stored in the system or automatically sent via email.

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