

BBVA Group's Campus La Moraleja, Education, Spain



Leading global financial institution BBVA Group's teaching facilities in Madrid offer the ultimate in flexible, energy efficient educational spaces, promoting excellence for many years to come.

Background:

With a corporate vision of "working towards a better future for people", the construction of BBVA Group's Campus La Moraleja brings sustainability and top class facilities together with stunning results.

Covering 44,000m², the campus is made up of four buildings which contain 31 classrooms, two dining rooms, a gym, sauna facilities and parking for over 200 cars. In addition, there is a residential section which provides 187 bedrooms for visiting students.

The challenge:

The concept was to design a state-of-the-art teaching experience for all BBVA Group visitors, with sustainable construction a key factor. With this in mind, the latest in environmental building policies had to be taken into account, in order to maximise long-term energy and cost effectiveness.

Flexibility was a key requirement, as many areas within the facility were designed for a variety of uses. It was also important that all systems within the building could be integrated to communicate with one another, exchange data to manage energy usage, and provide users with seamless, easy-to-use operation.

Quantum integrates easily with building management systems and allows users to reduce their building's energy consumption and operating costs.



Quantum is fully scaleable and can control light levels within a classroom or across a whole campus.

Quantum allows users to configure, control and monitor all artificial and natural light within a building, saving money and energy.

The Solution:

Following thorough research and testing the project leaders chose Lutron's Quantum total light management solution for Campus La Moraleja. Quantum's enhanced control and integration capabilities allowed it to easily be linked into the campus' AV, HVAC and window shading control solutions to monitor and adjust the lighting levels for maximum user comfort and minimum energy consumption.

The system controls a wide range of lamp sources in the building, including fluorescent and LED. Each luminaire houses an individually addressed DALI dimming ballast or driver. In order to make most use of the natural light available, the installation includes Lutron's Sivoia QS motorised blinds, working alongside RF occupancy/vacancy and daylight sensors throughout. That allows the system to automatically adjust light levels to meet agreed levels; maximising daylight and reducing electric light and energy costs.

The Results:

Lutron's Quantum total light management solution has provided both campus employees and visitors with a highly efficient, versatile and easy to use system that constantly monitors and chooses the selection of the light that best suits their needs.

There are keypads located throughout the building to allow users to override the automatic control of the lighting in local areas as required. Pre-programmed lighting scenes are memorised and can be easily recalled for specific use, such as presentations or conferencing. Each keypad bears the BBVA Group logo to reinforce company's corporate identity.

By making sustainability as a focus element of the brief, Campus La Moraleja has met all the goals that were set and been awarded LEED certification, as well as meeting the ISO14001 standard for environmental management. The Quantum system played a key role in ensuring energy management criteria were met, and enabled the building to qualify for accreditation, as well as guaranteeing that energy usage and environmental impact are kept to a minimum for the foreseeable future.

Client:	BBVA Group
Systems Integrator:	UTE (Cobra/Cofely GDF Suez)
Pictures:	Questión de Imagen Producciones, S.L.
Lutron Products:	Quantum, Sivoia QS

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