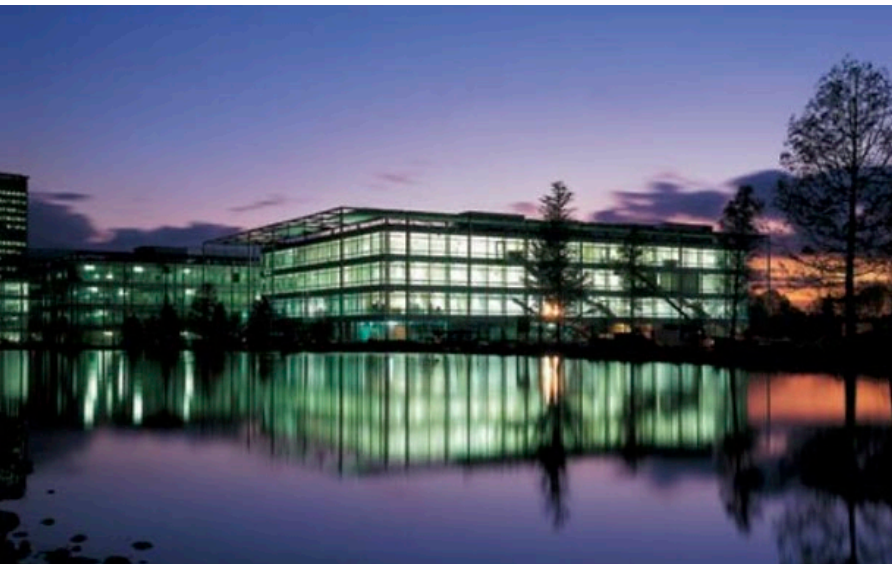


CASESTUDY

Chiswick Park | London – UK

Reliability where business continuity is critical



Chiswick Park is a remarkable office development which will offer 1.8m sq. ft. of office space spread between twelve buildings, plus a restaurant, bar, mini supermarket, swimming pool and fitness centre. Park tenants include Technicolor, Discovery, CBS News and Singapore Airlines.

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01 Chiswick Park
London – UK

Projekt Overview

The Chiswick Park site is an urban island which has been completely transformed from its former use as a London bus works to a much sought after office location. Spectacular green parkland forms the heart of the site, including an open-air performance area, lake and extensive mature landscaping.

The project embodies the conviction of developer Stanhope that high quality can be achieved using standardised components and construction management procurement.

The aim was to produce a development that is highly distinctive, yet buildable within commercial constraints. The office buildings, designed by Richard Rogers contain flexible space that can be configured in open plan or cellular form. Central atria give views out onto the landscaped park and bring light into the heart of each building.

The energy strategy includes external aluminium louvres and retractable external fabric blinds (on earlier buildings) activated by light sensors which together shade 90 percent of the buildings' surfaces. This significant reduction of solar gain makes the use of a displacement ventilation system

Project Summary

Applications:	Monitoring, Cooling, Heating, Air handling, Metering, Electrical Supply Management, Fire Alarm
Points:	New York, New York
Number/Type of Building:	7,200 points
Network:	Arcnet Ethernet
ABB Cylon® Hardware Installed:	UnitronUC32, Unitron2000
ABB Cylon® Software Installed:	Unitron Command Centre

possible. Chiswick Park's energy efficient design together with good management has resulted in low running costs.

The ABB Cylon® BMS is installed in all of the buildings on site providing the most advanced technology to compliment this hi-tech office campus.

“The ABB Cylon® BMS provides me with the absolute reliability I need to manage the mission critical broadcasting centre. It gives me the control I need at my fingertips whether I am on or off-site.” – Kirk Miller, Corporate Real Estate Manager, Technicolor Network Services.

Solutions Benefits

Energy Efficiency – The BMS is designed to make the most of the energy efficient design. For example a relatively small chiller plant is being used even with the soaring London summer temperatures. Free air cooling is provided where the outside temperature is 18 degrees or lower.

Ease of Management – Central BMS supervision is provided by a maintenance company for a number of buildings. Technicolor have their own on-site service engineers monitoring the BMS as they carry out very sophisticated operations. High quality graphics have been supplied by the ABB Cylon® Approved System Integrator which ensures ease of management for all facilities management personnel.

Reliability – Technicolor occupies Building 12 and is a television broadcasting centre for Europe and the Middle East. This building houses a massive IT and communications centre. ABB Cylon® provides the utmost reliability which is essential to ensure business continuity.

Occupant Comfort – The BMS provides precise environmental control for office workers. The estate management team strive to make Chiswick Park an

enjoyable place to work and the BMS helps provide the right indoor environment to support this.

ABB Cylon® Solution

Two air handling units are used to provide the # required ventilation. A central riser runs through each building and air is pushed under the floor on each level. This displacement system takes heat from the occupants and is extracted through the discreet light fittings. This process also removes any heat generated from the light fittings themselves. Exterior heat loss in winter is compensated by perimeter heating.

The BMS automatically adjusts the level of external air that is required. For example in summer 90% of the air is re-circulated to reduce chiller load. The Technicolor building has additional chiller plant for first floor communication, IT, broadcast and editing suites. Business continuity is key and the BMS manages lead, lag and standby units to ensure uninterrupted cooling supply. Remote BMS supervision is also available for key FM personnel. In addition to PC based access, critical alarms are automatically relayed by text message to ensure immediate action.

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