



LONDON SCHOOL OF ECONOMICS

ENERGY PERFORMANCE

London School of Economics (LSE) continuously strives to improve its environmental sustainability, and by working with Bouygues Energies & Services, an Equans company, and implementing our solution, they have managed to achieve significant reductions with regards to their energy and CO2 consumption.

The principal aim of this partnership was to work with London School of Economics to achieve the 54% reduction in carbon dioxide emissions by 2020, as outlined in their Carbon Management Plan (CMP). With this target in mind, LSE aspire to reach a reduction of 57% in order to achieve its short and long term goals.

Although significant carbon savings had been achieved, we partnered with LSE to support them in meeting their target, attaining maximum efficiency from the remaining portfolio and managing future revenue costs.

Our Solution

Bouygues Energies & Services, an Equans company, carried out in depth energy surveys in order to develop a client proposal for the Energy Conservation Measures (ECMs), this allowed the client to select the best technical solutions from a range of measures. We then implemented these solutions with guaranteed savings through an innovative commercial model that the client could benefit from. The energy performance contract allows the client to hand pick their

preferred technologies, that are often selected for their publicity around meeting the sustainability targets they have published through the relevant bodies.

The upgrades and equipment Byes installed included:

- Chilled Water Systems
- BMS Re-engineering & Upgrade
- Boiler Burner Upgrade and Combustion Trim
- PV Solar System Installation
- Lighting & Lighting Control System Installation
- Back End 3 Port Isolation Valves
- Small Scale CHP
- Variable pump and fan speeds dependent on demand
- HVAC Component Insulation



Client Benefits

- Longer equipment life
- Extended maintenance frequency
- Extended life of existing equipment
- Increased system reliability
- Reduced infrastructure upgrade requirements for supply reinforcement
- Improved supply chain position with customers
- Superior CSR and shareholder value
- Enhanced reputation and public relations
- Further meeting the CRC obligation
- Enhanced working environments

Key Facts.

- **7.5 Year payback**
- **£306,000+ Savings per annum**
- **1400 Tonns of co2 saved per annum**