



Project Highlight

University of West London, UK

AMERESCO 

Project Transforms Campus to
Reduce Carbon Emissions and
Improve Region's Air Quality

Technology Type:

LED Lighting | Energy Efficiency | Solar |
Renewable Energy | Building Management Systems |
Air Source and Ground Source Heat Pumps

Solar Panels

584

Energy Project Size

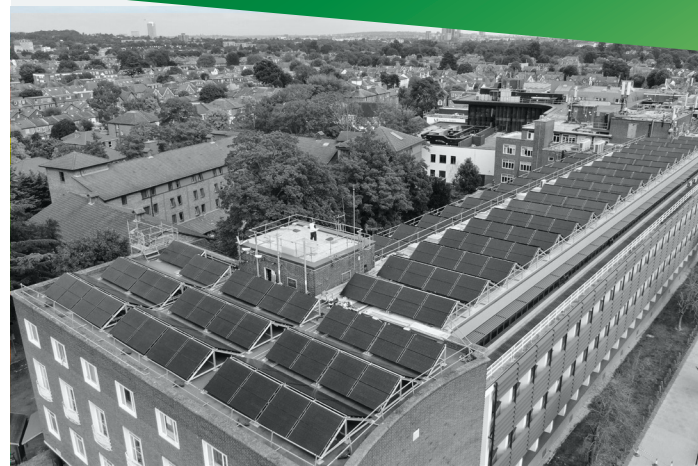
£5,000,000+

Annual CO₂ Reduction

529.3 tonnes

Annual Gas Savings

~3,110,000 kWh



Summary

In an effort to reach net zero carbon emissions by 2030, the University of West London (UWL) partnered with Ameresco to design and develop a decarbonisation project. Covering four sites on UWL's campus, the retrofit encompassed energy efficient upgrades and integrating renewable energy sources to replace its ageing heating, ventilation, and lighting systems. Estimated to reduce over 500 tonnes of CO₂ annually, the project was recognised by the Energy Managers Association's (EMA) Energy Management Awards receiving the Highly Commended designation in the Decarbonisation Project category.



Solution

To improve air quality around the borough, Ameresco partnered with NIBE Energy Systems and JKN Renewables, Ltd. to replace antiquated gas boilers with ground source heat pumps along with the installation of solar panels to reduce nitrogen oxide pollution. Made possible by a £5 million award from the government's Public Sector Decarbonisation Scheme, the project covered four sites of the UWL campus creating renewable energy sources with low-emission heating and ventilation systems in the ageing buildings.

- Replaced gas boilers with ground source heat pumps
- Installed 580 solar PVT panels
- Upgraded lighting fixtures



As a University, we are taking a leading role in our community and doing our bit to tackle the global climate crisis and build a better future. While there is still a long way to go, this major decarbonisation project will allow us to create our own renewable electricity and run our buildings more efficiently which is going to have a considerable impact here in West London, and further afield."



Professor Peter John, CBE
Vice-Chancellor, University of West London



Benefits

This transformation will save UWL an estimated 500 tonnes of CO₂ annually and will improve the air quality around the University's main sites in Ealing and Brentford, supporting the region's transition to a low carbon economy. The project was also recognised as a top decarbonisation project in the higher education sector by the Energy Managers Association. Other benefits include:

- Annual reduction of CO₂ equal to the planting of 25,000 trees
- Annual energy reduction equivalent to heating 70 homes
- 9,460 tonnes of CO₂ saved across equipment lifetime
- £496/te CO₂LT in cost per lifetime tonne of CO₂
- Enhanced learning environment with lighting upgrades
- Supports UWL's net zero by 2030 goal and the region's net zero by 2050 goal for public sector buildings
- Positions UWL as a leader in higher education addressing global climate crisis

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

