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# Finalist's case study

## London Metropolitan Carbon Reduction Lighting Up London Met

### About the project

#### Summary

Lighting Up London Met consists of 3 main areas— installing 3,170 LED lights, 221 PV panels and 914 windows. The project brightened up the University by improving light quality and utilised sunlight to make our own energy.

The projects were undertaken as part of the Transforming Energy Efficiency at Central House (TEECH) project to improve the energy efficiency of a 1960's building and the Mayor's RE:FIT scheme which guaranteed a 7% energy saving across three of the University's buildings.

#### Project partners

The TEECH project upgraded glazing was undertaken by CBRE. The lighting and PV was installed by Engie under the Mayor's RE:FIT scheme. Assistance was also received from internal project partners across the University.

### The results

#### The problem

London Met has a challenging target of a 50% carbon reduction by 2020 and needed to identify further energy saving projects. One of the buildings was a leaky 1960's teaching space with single glazed windows that had staff and students in it throughout the year so had no downtime to undertake work.

#### The approach

The projects were undertaken as part of the Transforming Energy Efficiency at Central House (TEECH) project to improve the energy efficiency of a 1960's building and the Mayor's RE:FIT scheme which guaranteed a 7% energy saving across three of the University's buildings. Projects were undertaken to link in with coursework and provide students with opportunities to learn in a "living lab".

#### Our goals

To improve teaching spaces for students whilst reducing energy consumption.



LONDON  
METROPOLITAN  
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#### Profile

- Higher Education
- 12,500 students
- 1,300 staff
- Urban
- Providing education since 1848

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## Obstacles and solutions

Undertaking refurbishment work whilst building occupied	Disruption was minimised by working closely with the Faculty who were fantastic and instrumental in planning to ensure that we caused minimum disruption to students. This also helped identify opportunities where we could involve students in projects such as the design of the windows. Lighting work was undertaken out of hours so no disruption occurred.
Possible damage to roofing structure during PV work	The photovoltaic system was installed using a click frame system. This was a lightweight frame which didn't require to be drilled into the roof making installation far quicker and without damaging the existing infrastructure.

## Performance and results

We expect to save £103,200 per annum on energy costs. It will reduce the University's carbon footprint by 440 tonnes, saving a minimum of £7,436 per year on CRCEES costs. Lighting Up London Met builds on the success of the previous carbon management plan which resulted in savings of 43% in 2014 and we have exceeded our 2020 carbon reduction target of 50% by the end of the academic year of 2015/16.

## The future

### Lessons learned

Engagement with staff and students is key to a successful project and can provide opportunities for students to develop work experience.

### Sharing your project

London Metropolitan University have publicised the work that has been undertaken through internal communications such as staff/student newsletters, new articles on websites and through presentations at groups, for example during Reading Week to students and to the University's Senior Management Group. Information has also been disseminated through external sources such as on the Edie website, Energy in Buildings and Industry magazine, NUS website, case studies on suppliers' websites. The success the University has had in reducing its carbon footprint has been well publicised which has helped raise the profile of sustainability and led to more staff and students being involved and more projects identified with a greater link being developed between Estates and Academic courses.

### What has it meant to your institution to be a Green Gown Award finalist?

We are proud that London Met is a finalist for the second year running. The nomination recognises our outstanding team and the work they do to help sustain the environment. This work is important to the London Met community. It is a contribution both to the University and the city

### Further information

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