



Barnet County Court

# case study



Updating external lights to LED to produce better quality lighting.....

## Challenge

MITIE Technical Facilities Management were asked by HMCS to investigate the options for updating their external lights at Barnet County Court to produce better quality lighting effects using latest LED technology. The business drivers were to reduce energy costs and carbon emissions and to deliver a lighting solution that would make the building more secure against vandalism.

## Action

Vision Hampshire worked closely with John Boxell, Matthew Chalk, Craig Bull (MITIE) and Gary Cronin (Regional Manager) to gain an understanding of the requirements and constraints and then completed a full site survey at the court.

When surveyed the existing lights on site comprised of the following:

- 9 x 70w Son lamppost within globe dome
- 5 x 300w halogen flood lights
- 10 x 70w bollard lights
- 3 x 250w floor mounted floodlights
- 5 x 60w Circular wall mounted lights

After completing the site survey it was agreed that we could replace the existing lights with a smaller number of lower energy lights that would improve overall lighting levels and significantly reduce energy costs and Co2 emissions.

The proposed lighting was as follows:-

- 18 x LED 30w small Floodlights
- 4 x LED 140w Floodlights
- 3 x LED 70w Floodlights

The 30watt LED floodlights have been installed around the front and sides of the building, mounted 4 meters from the ground. This lighting would provide clear white light that would spread evenly up all walkways and entrances, making the building more secure at night.

In the car park MITIE have removed all existing lampposts, except for one, which has had a Tee bar attached in order to mount the 70watt floodlights appropriately. These lights would provide better colour and higher lux levels to the area than the existing halogen lights.

Finally, it was agreed that we should install 140watt lights mounted to the main wall directed onto the car park area covering all parking bays. This light would give a strong white colour and output resulting in excellent lighting for CCTV coverage.



## Result

The works have now been completed with the above products. The overall energy savings that will be achieved by implementing the Vision Hampshire solution will be 14,848Kw per annum and a corresponding reduction in CO2 emissions of 6,385 kg per annum. The initial costs of the lights will be paid for within three and a half years from the above savings and the new LED lighting has also made the Court a more secure and safer environment by producing improved levels of lighting throughout all external areas.

## Quotes

Calvin Caunter - Technical Director, Vision Hampshire

“We are delighted that we were able to help MITIE & Barnet Court in their design objectives and achieve such significant energy savings, reduction in CO2 emissions and make the whole area a safer place to work.”

Craig Bull - Senior contracts Manager, Mitie Technical Facilities Management

“Being able to assist HMCS in their quest to provide significant energy savings is a priority for MITIE Technical Facilities Management and by installing the LED lighting provided by Vision Hampshire MITIE have proved that savings can be gained whilst also improving the lighting levels, energy consumption and providing a reduction in the maintenance required due to the extended life expectancy of the light fittings.”

Susan Mosely, Court Manager, Her Majesties Court Service

The court is very pleased with the new lighting in the Car Park at Barnet. The old lights on lampposts were often getting damaged by cars and the new lights set up high on the walls of the building give very good coverage of light across the whole car park.

Diane McGarva, Accommodation Officer, Her Majesties Court Service

The LED lighting has improved the security aspect of the building and the lighting levels in the car park. The LED lightings provide a better coverage of the car park without casting any shadows. Staff feel safer during the winter months when leaving the building. The LED light is a more gentle light and unlike the old lighting your eyes adjust better when leaving the building as the lighting is not too harsh. Somehow the lighting improves the exterior of the building at night as again no shadows are cast. When the car park was covered in snow the lighting made it look tranquil.



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