

# *Educators get top marks in efficiency*

## **Towards Class A - Shining examples**

...are everywhere and in a town near you...

### Introduction

The Centre of Engineering and Manufacturing Excellence (CEME) is the largest brownfield development area in London. It was set up as a non-for-profit partnership to cater to local people of all ages and stages of vocational development. The site combines the key issue of regeneration with energy efficiency as it employs the use of Photovoltaic cells and energy conservation techniques. This has led to the campus being voted 'Best Design-led Regeneration Project' at the 2004 Regeneration Awards.



### Success

The Photovoltaic roof alone has a 115kW output and contributes 15% of the sites electricity requirements. This along with the other energy saving measures implemented is expected to save around 25% of CEME's annual utility bill. The development has also regenerated the region by providing much needed jobs and carrying out initiatives to improve the local community.



### Design

The project has incorporated many sustainable elements into its design. It has the largest integrated Photovoltaic roof in the UK and has an inbuilt unit to recycle rain water. The Site also employs natural ventilation, heat recovery and day-light sensitive lighting controls which further reduce the energy requirements of the building. The exterior of the building was designed in consultation with Environment Agency to improve the habitat for the local wildlife.



### Conclusion

The project has employed new sustainable techniques in an area that was in need of regeneration. It has thus created a benchmark for sustainable, energy efficient design that can be easily replicated in other sites.

Mayor of London - Ken Livingstone  
"a leading institution in its field, (which) will benefit London students with a range of high quality technical employers and encourage business investment in the area. This is a vital landmark in securing a successful and sustainable economic environment in the Dagenham region"



### Partners



### Contact

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