

NEC Waste Management Facility

The recent upgrade to Dialight LED High Bay lighting at the National Exhibition Centre's Waste Pre-Treatment Centre (WPTC), has seen a dramatic improvement in the light quality and has offered significant energy and carbon savings to the NEC Group.

The NEC is the UK's premier exhibition centre, occupying a 610 acre site in Birmingham. Over 2.1m visitors are welcomed each year to around 140 trade and consumer events. The largest exhibitions include annual event like Crufts and BBC Gardeners World. The NEC operate a sizable WPTC to process the large amount of rubbish generated from the exhibitions. This includes the waste from the set-up and breakdown of the stands, through to the rubbish generated by the general public attending the events.



Summary

Original fitting – 36 x 250W SON

LED fittings – 36 x 161W Dialight LED High Bay with dome lens.

Mounting height – 4.8 metres



Before



After

Waste Management Facility

The NEC is rightly proud of its green credentials in particular the recycling and energy reduction targets. September 2012 saw the NEC become a zero to landfill venue, with the aim of recycling a minimum 50% of all waste on site, the exhibition industry's only dedicated Waste Pre Treatment Centre is critical when it comes to delivering these ambitious targets.

The existing lighting in the WPTC created a number of issues for the users, specifically the light was gloomy and the transition between daylight and the interior was enormous. The Health & Safety element was a significant driver coupled with the need to reduce operating costs and carbon footprint.

The LED solution from Ocip Energy secures improved light quality and a long term sustainable lighting technology to replace obsolete fixtures. The solution was to deploy Dialight 14,000 lumen High Bay, equipped with the dome lens to ensure safe and uniform light quality across the facility.

Andrew Cope of the NEC says: "Thanks to the Dialight fitting we were able to resolve what had become a major operating issue, quickly, easily and cost effectively". The LED High Bays have reduced the energy consumption on site by 12,000 KWh per annum and from an ethical perspective, the UK manufactured LEDs are saving 6.3 tonnes of CO2 per annum.

REDUCE

operating & maintenance costs

FAST

return on investment

REDUCE

carbon footprint and costs of carbon tax

IMPROVE

light quality