GUPTA Smart Energy

Factory LED high bay lighting

Case study - key benefits:

- Lighting energy needs down by 71%
- CO_2 output down by >5,000 tonnes per year
- Average lux levels up by 41%, maximum lux levels up by more than 60%
- 5 times the life expectation of metal halides
- Huge savings in maintenance
- Increased work efficiency and improved productivity
- Improved light quality

Eastern European automotive production plant sees payback in only 2.1 years with LED high bays, equivalent to 1.5 years at UK prices

The challenge

The plant had 3408 metal halide fittings running at 450W (including driver) yet achieving only 247 lux on average when it needed to meet the EN standard of 300 lux. The lights were in use 16 hours a day, 300 days a year, so there was also a need to find a more energy-efficient lighting solution.

The solution

The metal halides were replaced one-for-one by long-lasting and energy-efficient 130W SEGA LED high bays manufactured by our industrial and commercial lighting partner GigaTera.

The result

Not only did the LED high bays vastly improve the light quality, boosting the lux level to over 350 in all areas of the plant, but the power consumption was reduced by 71% and CO_2 emissions by 73%. On top of this the LED high bays carry a 5-year warranty and will last five times longer than the metal halides, so the savings in maintenance cost and disruption are an added bonus. When all of the savings are taken into account the plant expects to see full return on its LED investment in only 2.1 years, whereas a similar installation in the UK would see payback in only 1.5 years.

GUPTA Smart Energy

See the full range of LED industrial high bays, area lights and floodlights at www.gigatera.com

SEGA - IP65 Industrial LED High Bay
80W / 100W / 130W / 160W

SEGA-High Power - IP65 Industrial LED High Bay 500W

EFL - IP65 Industrial LED High Bay
70W / 100W / 130W

WAPA - IP66 Industrial LED Wide Area Floodlight
50W / 75W / 100W

MAHA - IP66 LED Industrial LED Wide Area Floodlight
150W / 200W / 300W / 400W / 600W

For more information see www.guptasmartenergy.com

Gupta Smart Energy
32 Barnton Gardens
Edinburgh EH4 6AE, UK

Tel. +44 (0) 131 312 7771
ash@guptapartnership.com