

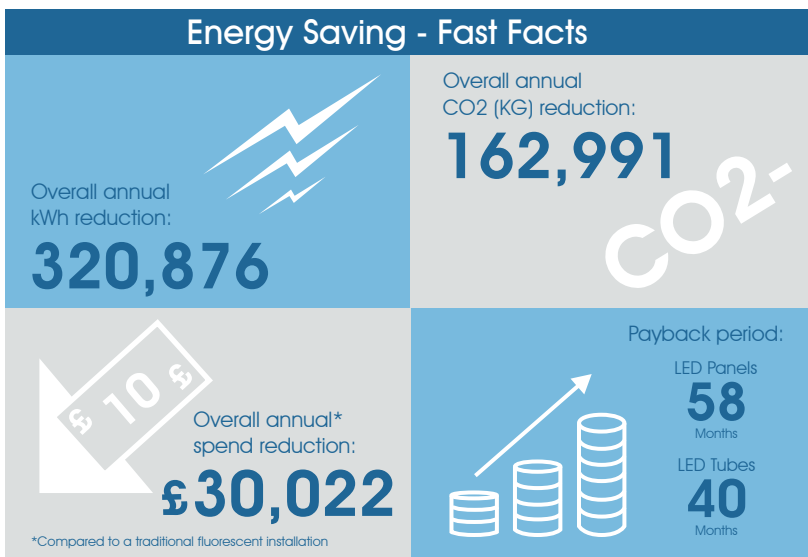


## The Project

Garibaldi College was founded in the 1960s and provides a first class educational experience to 850 pupils aged from 11 to 18, including 130 Sixth Form students. Kosnic were invited to prepare a comprehensive energy audit of the college's existing light fittings and propose retrofit replacement LED lamps that would, as a minimum requirement, retain the existing light levels and reduce energy consumption. Garibaldi stipulated a payback period of less than 5 years, taking into account the purchase of the replacement LED products, new light fittings and installation costs.



▲ Increased light levels and short payback created a happier learning environment.



LED Panels	
Kosnic Solution	316x36w & 45w LED Panels
Traditional Solution	342x18w T8 Fluorescent Fittings
Saving in kWh	69,299 kWh
Saving in £ per annum	£6648

LED Tubes	
Kosnic Solution	1184x25w & 30w LED Tubes
Traditional Solution	1184x68w & 70w Fluorescent Tubes
Saving in kWh	242,994 kWh
Saving in £ per annum	£22,533

## The Kosnic Solution

The existing light fittings comprised of a large number of 5ft and 6ft T8 fluorescent tubes fitted into surface or recessed fluorescent fittings. There were also large quantities of 600mm x 600mm fluorescent fittings using 4 x 18W T8 fluorescent tubes, in addition to 28W 2D surface fluorescent fittings. The existing 4 x 18W T8 tubes produced only 180 Lux, so the use of 45W Kosnic LED panels proved the ultimate solution with a new improved Lux level of 320 Lux. Staff and pupils have been very positive, noting how great the new lighting looks and that it's a brighter and happier environment to learn in.

LED DD	
Kosnic Solution	149x12w LED DD LED DD
Traditional Solution	149x28w Fluorescent 2D Fittings
Saving in kWh	8,583 kWh
Saving in £ per annum	£841