

BIS Valves – LED Lighting Project



Project cost
£15,331

Estimated Savings
£7k / 24 tonnes of CO₂ per year

Equipment / Installer
Low Energy Solutions

Grant awarded:
£6,132.40

Estimated Annual Savings: £7k / 24 tonnes of CO₂

The Project

BiS Valves is a design and manufacturing company based in Wimborne, with a large and costly electricity consumption. In a bid to reduce their energy demand BiS Valves decided to replace 203 of their existing light fittings with LEDs. This switch reduced the electricity used for lighting by 70%.

Getting started

After identifying an urgent need to lower their carbon footprint BiS Valves reached out to Low Carbon Dorset to explore the carbon saving potential of LED lighting. A site visit and energy report by Low Carbon Dorset's technical officer Erik highlighted that around 25% of BiS Valves' electricity consumption was down to lighting. By swapping to LEDs this could be reduced by over 70%, meaning big carbon and cost savings.

LED Lights:

203 old light fittings (mostly T8 fluorescent tubes) were replaced with 212 highly efficient LED alternatives. The switch to LEDs is estimated to save BIS Valves £6,783.68 in their energy bills every year and 24 tonnes of CO₂. With the help of a 40% grant from Low Carbon Dorset, BiS Valves' new lights will pay for themselves in just over a year.



Other recommendations measures:

Further carbon saving measures were identified in BiS Valves' energy report. These included replacing a gas-fired heating system with an air-source heat pump, exploring the possibility of roof-mounted solar PV panels, and replacing compressed air generation equipment with more efficient alternatives.



This grant came at just the right time, we had been considering switching to LEDs but the project was cost prohibitive despite the savings we could have been making. Erik from Low Carbon Dorset was very helpful with the whole process of the grant application and with the further recommendations - which we may take up in due course

Tina Thompson, Finance Director – BiS Valves

