

RPM Digital Print Ltd LED installation & boiler replacement



Grant
awarded:
£2,074.40

Estimated
annual saving:
5 tonnes of
CO₂ / £900

Project cost
£5,186

Estimated Saving
5 tonnes of CO₂ / over £900 per year

Equipment / Installer
39 LED Lights (Low Energy Solutions) / Worcester
Bosch Greenstar 29 CDi classic boiler (GWE)

The Project

RPM Digital is a print and digital marketing company based in Wimborne, Dorset. In an effort to reduce their consumption of electricity and gas, RPM upgraded lighting throughout their offices to LEDs, and replaced an aging inefficient gas-combi boiler with a highly efficient condensing gas boiler.

Getting started

With an environmental management system already in place, RPM Digital base their business practices on working in an ethical and sustainable way. Aware that their premises were not as energy-efficient as they could be, but restricted by the costs of upgrading equipment, RPM contacted Low Carbon Dorset for support.

An initial energy report carried out by Low Carbon Dorset's technical officer Erik, highlighted the carbon and cost savings that could be made from upgrading RPM's lighting and gas-combi boiler. Within the report, alongside the recommended changes and potential savings, Erik outlined the likely cost of the project and payback periods.



With this information at hand RPM were able to plan their carbon reduction project according to their requirements and budget.

LED Lighting

59 existing lights, mostly fluorescent tubes consisting of quadruple 18W, single 58W, or double 58W T8 fittings, were replaced with 39 highly efficient LED lights. Several of the existing lights were daylight tubes to help with quality control in the print works. These lights were replaced with LED daylight tubes.

The replacement of the lights alone will make an estimated annual saving of 2.4 tonnes of CO₂ / £600.

Boiler upgrade

Hot water and heating was previously supplied to the offices through a gas combi-boiler. This non-condensing boiler had a SEDBUK (Seasonal Efficiency of Domestic Boilers in the UK) efficiency rating of under 79%. By making a simple switch to a 90%+ efficient condensing gas boiler RPM will make savings on energy use and bills. These savings are estimated at 2.6 tonnes of CO₂ and over £300 per year.

Other recommendations

Further recommendations made in the RPM Digital energy report included more investigation into the barriers for installing Solar PV on the factory roof. And a detailed assessment of the building's heating, ventilation, and air conditioning (HVAC) system by a HVAC engineer to identify potential energy and carbon savings. RPM Digital can apply for further grants from Low Carbon Dorset to carry out these recommendations until the programme ends in 2020.



“Nothing to lose but your carbon emissions, and such a lot to gain!”

Lyn Place, RPM Digital