

LED Lighting Case Study



HEADLINE SAVINGS:

Overall Consumption Savings :	32%
Overall Electricity Reduction:	400 MWh
Annual Saving Projection:	£40,000
Annual Maintenance Saving Projection:	£ 4,000
Reduction in annual CO2 emissions:	182 tonnes

Independent figures provided by Energy Consultant Julian Colman

www.savingsinbusinessenergy.co.uk

Figures included voltage optimisation of between 12 and 15%

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A&B Glass Ltd is a major and highly successful PVC-u fabricator, supplying products suited to all industry sectors; today's success has been built on the sound judgements and decisions of the past, so the decision to invest in a green future is a natural continuance of the company's robust planning.

As part of the thorough process to select the correct partners for green success, A&B Glass worked with Julian Colman, the Energy Consultant, who has an excellent track record in working with both large and small organisations to plan and execute effective energy reduction programmes.

Two areas targeted to have a major impact on savings were voltage optimisation and lighting. Given that the factory, showrooms and offices can be lit for up to 20 hours per day during a 5½ day week, with only around 10 days a year shut-down, and with the factory alone covering some 800sqm, lighting was deemed a priority in order to hit energy and CO2 emission reduction plans. After much testing two LED lamps were selected. Selection was based on:

overall light quality including CRI
light dispersal and coverage
reliability
cost effectiveness

output per watt consumed
light density at workstation height
track record in other installations
support and back-up

The two lamps selected were:

Office & Showroom areas: QuartzLumen 40W 600x600 LED Ceiling Panels at 4000K
Factory & Production areas: QuartzLumen 120W High Bay Beams at 5500K

It was considered, and has subsequently been proven, important that an excellent light quality be part of the end result; that in the offices to engender a comfortable and productive working environment; that in the showroom areas to highlight the quality of A&B's excellent products at their best and that in the production areas optimising the drive for continued quality, something embedded in the company's philosophy.

After installation and completion of the work the immediate improvement in lighting quality was apparent in all areas, with cost saving effective from day one. With improved working conditions and dramatic effects on CO2 emissions, investing in cutting-edge lighting technology has been a win-win result for A&B Glass.

"Significant reductions in all targeted areas, a major decrease in costs and superb lighting quality"

Dave Richardson, Production Manager, A&B Glass Ltd.

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