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LED Lighting Case Study – Winery

Mollydooker Wines, McLaren Vale South Australia 5171

19th May 2017





Commercial Warehouse - LED Lighting Conversion



Opportunity:

Mollydooker Wines wanted to improve their overall operational spend, and one area they targeted for improvement, was energy consumption, more specifically, winery lighting. With the existing installation being dated and heavy on power consumption, due to the type of light fittings in place (Metal Halide High Bays), and ongoing maintenance costs being significant due to the lighting set-up (equipment required for re-lamping and servicing), a decision was made to explore an LED lighting conversion. After a comprehensive selection process, Southern LED Solutions were engaged to assess the current lighting installation, and determine the best-fit LED changeover solution, whilst outlining the advantages of making the switch, including financial gain.

Southern LED Solutions Role:

The first step was an on-site assessment of the existing lighting installation to determine the following factors:

- Type of current Internal winery lighting (e.g. Metal Halide High Bays), wattage, and total number of existing fittings.
- Daily running hours, operational days per week and installation factors (required equipment etc.).

The next step was to review all the data gathered, consolidate findings in conjunction with power rates (\$/kWh), and present a proposal to Mollydooker Wines for consideration, regarding an LED lighting conversion of their McLaren Vale winery. The proposal outlined the following elements:

- An in-depth understanding of the current lighting installation.
- A proposed LED lighting solution (best-fit) which minimised changeover costs, and maximised savings (cost & environmental) whilst maintaining light levels.
- An overview of the estimated savings.
- Estimated maintenance savings to be achieved by switching to LED lighting.
- Estimated return on investment (ROI), plus estimated savings post ROI period (due to the far superior lifespan of LED)

Success:

After reviewing the overall operating costs (monthly power bills), it was determined that Mollydooker Wines would reduce their monthly power spend for the winery lighting (Internal) by approximately **\$1,059.67** (a **62%** saving). At this rate, the annual running cost savings will be approximately **\$12,716.05**, a huge advantage for Mollydooker moving forward, with an expected ROI of **1.22 years** (Incl. maintenance cost savings of approx. \$1.8K per year). Beyond the ROI period, expected savings for the life of the LED High Bays is estimated at **\$177K**, and taking in to consideration maintenance cost savings, this figure will likely be even greater in reality. Check out page 5 for more detail around the projected savings, and you'll see how worthwhile an LED lighting conversion can be!

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The LED Changeover Detail:

Below is the detail of the lighting changeover, showing the type and quantity of fittings converted to LED.

61 x 400W Metal Halide High Bays

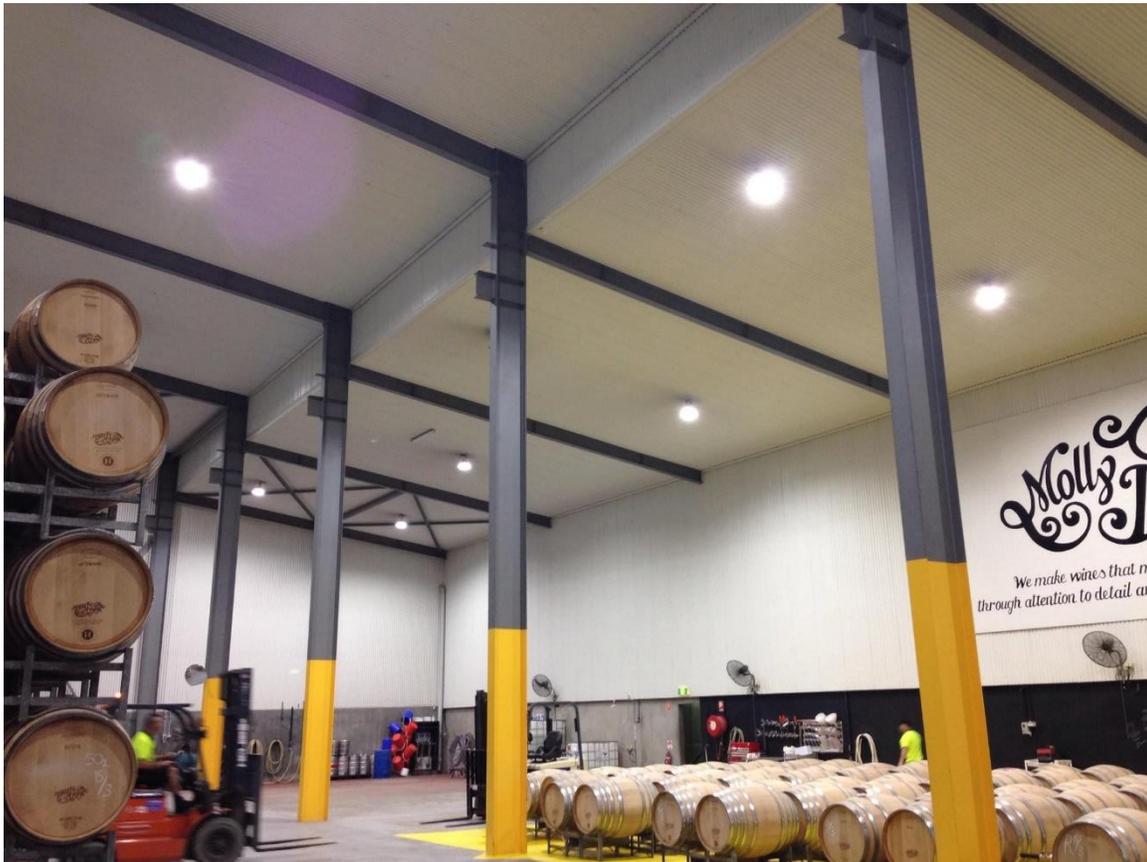


61 x SOLAS 150W LED High Bays

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The Result:

Below is what the Mollydooker Wines winery looks like in operation, with all SOLAS LED lighting products installed.



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The Result:

Below is a high level summary of the operational efficiencies to be achieved by making the switch to LED lighting throughout the winery area.

Pre LED Lighting		Post LED Lighting	
Avg. Consumption	35,042.89 kWh / Month	Avg. Consumption	31,260.89 kWh / Month
3,782.00 kWh / Monthly reduction			
Avg. Running Cost	\$1,695.47 / Month	Avg. Running Cost	\$635.80 / Month
\$1,059.67 / Monthly savings = 15% (Overall power costs Incl. Lighting & Power)			
<u>\$12,716.05 – Estimated yearly power cost savings</u>			

Client Testimonial – Peter Tavella (Winemaker):

“We recently changed all of our winery lighting over to LED. Not only are we now saving on our energy bills, the results are amazing with all areas considerably brighter and more user friendly.

Both Damian and Simon were very professional, knowledgeable and most importantly a pleasure to deal with. Their service was outstanding, delivery dates were adhered to and sample LED lights were even delivered for a pre-purchase trial. We will continue to use Southern LED solutions and highly recommend them to others.”

Contact

For any questions or queries regarding this case study please don't hesitate to contact:

Damian Scanlon (Director)

 0407 976 178

 damian@southernledsolutions.com.au

Simon McCue (Director)

 0417 847 047

 simon@southernledsolutions.com.au

“We look forward to partnering with you for all your LED lighting needs”

