

PROJECT FACT SHEET

Customer: Melbourne Cricket Club (MCC)

Project: MCG Sports Lighting Project

Project Profile:

Nilsen Vic has reinforced its 25 year relationship with the MCC by being awarded the scope of the MCG Sports Lighting Upgrade Project. The upgrade of the project involved retrofitting all tower and infill lights plus associated works which brought the stadium up to a world class lighting design.

Added benefits with the upgrade included:

- Reduced energy consumption
- Significant annual electrical savings.

The project scope included the installation of (954) new lights across the six towers, the Great Southern Stand and Northern Stand and all associated works. Five different types of light fittings were used, depending on location. The project was undertaken between October 2019 and February 2020 during this period there were over (50) scheduled day and night time events at the MCG which Nilsen were able to schedule works around. The events included Sheffield Shield, Big Bash, International One Day cricket and Boxing Day Test match. Additional site considerations included public walkways and throughfares for the 2020 Australian Open tennis. Working at heights, time, weather and a busy event schedule provided specific challenges for this project.

The DMX-RDM technology used in the control system also provides technical information on each fitting that can be used to reduce whole-of-life costs in maintenance, light replacement, electricity usage and carbon footprint.



Savings were achieved by replacing 30+ year old lights with modern LEDs and cutting edge computer technology, resulting in a considerable drop in electricity usage. Nilsen utilised an optimisation (dimming) model to match light intensity requirements of AFL, cricket and soccer, which means lights run cooler, releasing less heat into the atmosphere.

The project utilised staff from both Engineering Services and Contracting with projects outcomes delivered on time and within budget. The success of this project will positively impact future maintenance contracts with the MCC. Engineering Services will provide the ongoing maintenance and warranty works as required. The effective collaboration between Engineering Services and Contracting allowed the project to be handed over in time for the highly successfully Women's T20 World Cup Final on the 8th March 2020.

Nilsen recorded zero LTI's and MTI's on the project. The main WHS-related challenges and initiatives on the project included:

- The predominance of work at heights of 20 to 85 metres
- Falling debris, tools or materials into public areas
- Wind, fatigue and dehydration caused by weather/heights work
- Manual handling, raising and lowering of lights, switchboards and brackets.

Waste minimisation and recycling was paramount throughout the project, exceeding MCC's target for waste to be recycled.

As part of the post project review with the project team, the client has expressed their high level of satisfaction with the delivery of the project.

