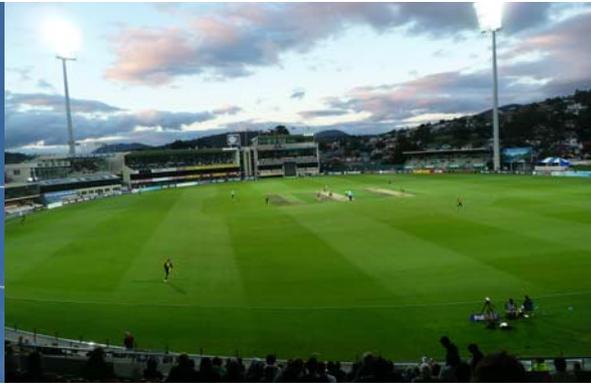




▲ Lighting head-frame



▲ Bellerive Oval - international standard sports lighting



▲ Lighting was designed to meet requirements for high definition television broadcast

In order for Bellerive Oval to retain its status as an international cricket venue, Cricket Tasmania was required to upgrade the facility to accommodate international standard night cricket matches.

The ground had been previously redeveloped, with the assistance of JMG, to cater for the greater needs of spectators, players, and media. The next step in the development of the facility was to provide international standard sportslighting, designed to meet the arduous requirements for colour television broadcasting of night cricket. JMG were engaged by Cricket Tasmania to meet this brief.

As project managers from the project inception, JMG undertook extensive research into the requirements for lighting of international cricket, a review which encompassed both national and international guidelines and trends.

Four 55m towers were installed, with a total of 460 lights, providing three levels of illumination to meet the needs of training (100 lux), non-televised competition (500 lux) and televised completion (2000 lux).

Design emphasis was placed on achieving high uniformity of illumination across the playing surface, as is critical for the operation of high definition TV cameras, whilst carefully controlling obtrusive light to the nearby residential precinct.

Design innovation was highlighted by the adoption of an electric winch driven cage for personnel access from the tower base to the headframe platform, a facility not previously used in Australia on sportslighting towers.

The project procurement package featured Tasmanian firms, with JMG and other Tasmanian based firms carrying out engineering design, tower fabrication, foundation construction, erection, upgrading of electrical infrastructure and final commissioning and testing of the lighting system.

The project was successfully undertaken within the original budget of \$4.5 million, and completed on program in time for the inaugural international night cricket match for Tasmania held in February 2010. The project was a finalist at the Engineers Australia Excellence Awards in 2011.



Chris Holloway  
Principal

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