



Emerald Karting Club - Central Highlands QLD Case Study

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Leaders in Lighting

About Our Client:

Emerald Karting Club, established in 2009 and with facilities completed in 2012, is the only affiliated karting club in Queensland's Central Highlands. It is recognised as the largest commercial go-kart track in Australia. The venue is widely regarded as a premier karting destination, attracting competitors from across Queensland and other states, while hosting major events throughout the year.

To enhance the experience, Precision Sports Lighting was engaged to carry out a complete sports lighting upgrade, making the track one of the best-lit karting venues in the country.

The impact of this upgrade has been acknowledged by elite competitors, including KZ2 Championship leader Josh Fife, who stated:

“The Emerald circuit was already one of the best karting tracks in the country, but the new lighting system takes the venue to a whole new level.”

Sports Lighting Project Overview:

Precision Sports Lighting successfully delivered a custom, large-scale lighting solution for the Emerald Karting Club racing circuit, designed to meet the technical and operational requirements of the venue.



Scope of Works:

- Supply and installation of 53 x LED sports luminaires, providing powerful, uniform, and high-quality illumination suitable for high-speed motor-sport environments.
- Implementation of a DMX lighting control system that allows for programmable lighting scenes and adaptable operation for various events and usage scenarios.
- Installation of 6 x galvanised steel poles, each 30m high, to support wide-area light coverage and facilitate safe maintenance.
- Installation of 5 x mid-hinged galvanised steel poles, each 25m high, strategically positioned for optimal light distribution across the circuit.
- Integration of a fibre-optic network that connects all luminaires for efficient lighting control.
- Upgrades to the electrical system to ensure reliable, high-performance operation throughout the entire lighting system.

By combining industry-leading LED technology, advanced control systems, and robust infrastructure, Precision Sports Lighting has created a future-ready, world-class lighting solution that enhances Emerald Karting Club's status as a premier destination for motor-sport and competitive karting.