



Calgary, Canada

CASE STUDY

CROWFOOT ARENA

Crowfoot Arena sought to modernize its lighting system to enhance the player experience, improve visibility, and lower operational costs. The existing lighting infrastructure was outdated, consuming excessive energy while failing to provide optimal illumination for the ice rink. The arena needed an energy-efficient solution that would also contribute to improved safety and performance.

CHALLENGE

- High energy consumption leading to increased operational costs.
- Flickering lights affecting player visibility and safety.
- Excess heat output from traditional fixtures impacting ice quality.



SOLUTION

Radiance Energy implemented a cutting-edge LED lighting system tailored for sports environments. The upgrade featured:

- 70% reduction in energy usage, saving over 95,000 kWh annually.
- Improved light output by 20%, enhancing visibility for players and spectators.
- Elimination of flickering, providing a safer and more comfortable experience.
- Reduced heat output, lowering the ice plant's operational load.

PROJECT SUMMARY

- Energy Savings: Equivalent to powering 120 homes for a month.
- Enhanced Visibility: Brighter, whiter ice surface with sharper rink markings.
- Cost Efficiency: Reduced maintenance and lower electricity costs.
- Improved Player Experience: Better puck tracking and playing conditions.