

Energizing the World with Intelligent Sustainable Solutions



# CASE STUDY CANLAN OAKVILLE

Radiance Energy efficiently retro-fitted Oakville's Canlan Ice Sports Arena.



#### CHALLENGE

Canlan's second highest operating costs, after labour, was electricity. The poor lighting quality affected 20 facilities and 57 ice pads across North America.

# SOLUTION

Radiance Energy replaced the arena's outdated fluorescent lights with new LED lighting. This resulted in over 80% of energy savings, increased light output, and an annual electricity saving of \$46,000.

#### **PROJECT SUMMARY**

- \$46,000 saved in electricity costs annually
- 80% in energy savings
- Increased light output
- Won Oakville Hydro's Conservation Leadership award



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# CASE STUDY CANLAN OSHAWA

Radiance Energy selected for LED retrofit for ice rinks, change rooms, restaurant, mechanical rooms, and hallways.

#### CHALLENGE

Canlan Oshawa sought to reduce operational costs while improving lighting quality for athletes and patrons. The existing lighting was energy-intensive and required frequent maintenance, leading to high costs.

#### SOLUTION

Radiance Energy provided a tailored LED retrofit plan featuring high-efficacy T8 LED tubes and 102,000-hour high bay lights. The solution offered:

- 76% energy savings (267,143 kWh annually)
- Annual cost savings of \$41,614
- Reduced maintenance needs and glarefree lighting

# **PROJECT SUMMARY**

The project achieved a 3.1-year ROI with an estimated cumulative net savings of \$395,562 over 10 years. Enhanced lighting conditions improved player performance and reduced shadows on the ice, increasing customer satisfaction.



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# CASE STUDY CANLAN WINNIPEG

Radiance Energy selected for LED lighting for four rinks, main lobby, offices, pro shop, and stairwells.

#### CHALLENGE

The Canlan Winnipeg facility was experiencing high energy consumption and inconsistent lighting quality. A solution was needed to modernize the facility while cutting costs.

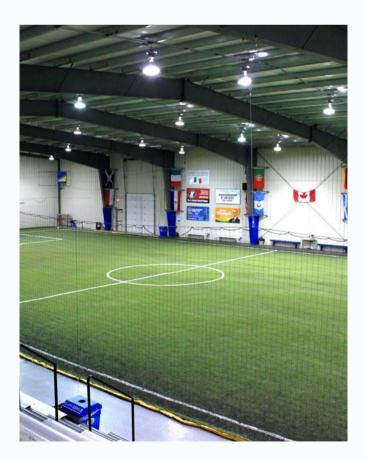
#### SOLUTION

Radiance Energy installed Linmore LED High Bays with integrated controls and high-efficacy 11W T8 LED tubes. Key benefits included:

- 74% energy savings (463,570 kWh annually)
- Annual energy & maintenance cost savings of \$57,117
- Improved visibility and reduced glare for athletes

# **PROJECT SUMMARY**

With a 2.9-year ROI and a cumulative net savings of \$551,717 over 10 years, the facility significantly reduced operational costs while creating a superior lighting experience.



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# CASE STUDY CANLAN ROMEOVILLE

Radiance Energy selected for LED retrofit for three ice rinks, main lobby, gallery, and locker rooms.

#### CHALLENGE

Canlan Romeoville struggled with inefficient lighting and high maintenance costs, which affected both the budget and user experience. A modern solution was required to enhance brightness and minimize operational expenses.

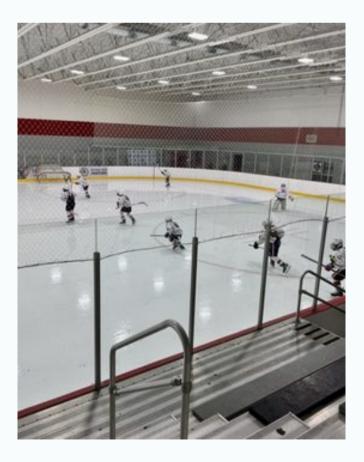
#### SOLUTION

Radiance Energy introduced a wireless & central control system with LED Eliminator High Bays and flat panel fixtures. The project delivered:

- 77% energy savings (342,040 kWh annually)
- Annual cost savings of \$27,363
- Enhanced lighting uniformity and reduced shadows

# **PROJECT SUMMARY**

The project resulted in a 4.1-year ROI with projected cumulative savings of \$231,573 over 10 years, providing a high-efficiency lighting solution that met Canlan's sustainability and performance goals.



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### CASE STUDY CANLAN LAKE BARRINGTON

Radiance Energy selected forLED upgrade for all facility levels, including exterior lighting.

#### CHALLENGE

Canlan Lake Barrington's facility faced excessive energy consumption and outdated lighting systems. They needed a cost-effective solution that would deliver immediate and long-term savings.

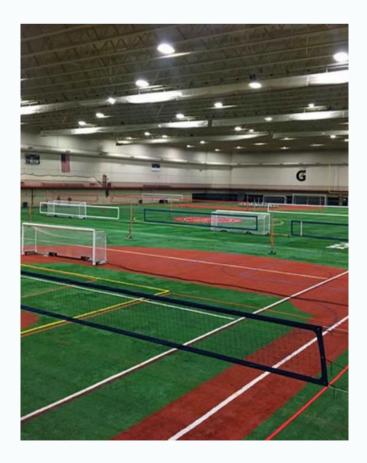
#### SOLUTION

Radiance Energy implemented a cuttingedge wireless lighting control system combined with high-performance LED fixtures. The upgrade provided:

- 83% energy savings (712,072 kWh annually)
- Annual savings of \$46,285
- Improved lighting aesthetics and energy efficiency

# **PROJECT SUMMARY**

With a 3.8-year ROI, the facility is projected to achieve \$404,029 in cumulative savings over 10 years, making it a model for energy-efficient sports facilities.



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