



Montreal, Canada

## CASE STUDY

# CITY OF MONTREAL GYM

*The City of Montreal sought to upgrade the lighting system in its Ontario East gym facility. The existing metal halide high bay fixtures were inefficient, consuming excessive energy and requiring frequent maintenance. The city aimed to enhance lighting performance, reduce energy costs, and align with sustainability goals.*

## CHALLENGE

The gym's outdated lighting system resulted in:

- High energy consumption leading to elevated operational costs.
- Frequent maintenance and replacement of bulbs, increasing expenses.
- Inadequate lighting coverage impacting the facility's usability and safety.

## SOLUTION

Radiance Energy proposed a modern LED lighting retrofit with high-efficiency LED Linear High Bay fixtures. The solution included:

- Replacement of 400W Metal Halide High Bay fixtures with 178W LED fixtures.
- A 64.7% reduction in energy consumption.
- Enhanced lighting quality and uniformity for improved visibility and safety.
- Integration of rebate incentives to maximize cost savings.

## PROJECT SUMMARY

- 64.7% energy savings and \$27,573 in total savings over ten years.
- Brighter, more uniform lighting enhancing safety and usability.
- Reduced CO2 emissions and long-lasting LED fixtures lowering waste.

