



QUINCY YOUTH HOCKEY ARENA



BEFORE



AFTER



\$37,188

TOTAL PROJECT COST



\$21,693

APPROVED UTILITY INCENTIVES



76,137 kWh

ANNUAL ENERGY SAVINGS



\$10,963

ANNUAL ENERGY COST SAVINGS



1.4 years

PAYBACK PERIOD

"Prism Energy Services made the decision to upgrade our lighting system so easy for us. The process from beginning to end was seamless. Their knowledge and service are unsurpassed. We are thrilled with the quality of work and product!!"

Michelle Stenberg
Facilities Manager
Quincy Youth Arena

Company History

Since 1973, thousands of children and young adults from around Boston's South Shore have strapped on ice skates and learned to play hockey at the Quincy Youth Hockey Arena (QYA) in Quincy, MA. Open year-round, the arena is known as "The Best Ice on the South Shore." It is home to Quincy Youth Hockey, Quincy High School Presidents Hockey, North Quincy High School Raiders Hockey, Quincy/North Quincy QNQ Girls Hockey, Quincy Recreation Skating, and many leagues on the South Shore.





HBL3 LED High Bay

Heavy duty extruded aluminum chassis for superior thermal control and durability.



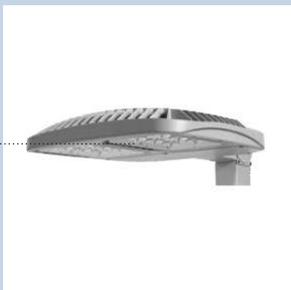
Lutron Wireless Ceiling Sensor

Automatically control lights via RF communication to compatible dimming and switching devices.



WS-301 Passive Infrared Wall Switch Occupancy Sensor

Turns lighting or fan loads on and off based on occupancy and ambient light levels.



OSQ LED Area/Flood Luminaire

Blends extreme optical control, advanced thermal management, and modern, clean aesthetics.

The Challenge

The staff at QYA contacted Prism Energy Services to conduct a lighting evaluation in early 2016. They wanted to improve the lighting quality—especially over the rink—and save money. The arena was equipped with a mix of T12 and T8 fixtures throughout the facility, and T5 high-bays over the ice. Prism conducted a site evaluation, examining over 200 interior and exterior lighting fixtures, and identified cost-effective lighting solutions for the entire facility.

The Prism Solution

The main ice was retrofitted with HBL3 LED High Bay Luminaires. These luminaires are particularly well-suited for a cool-to-cold environment. Made of a fully enclosed, heavy duty extruded aluminum chassis, HBL3 LEDs have superior thermal control and durability, operable in temperatures as low as -30°C at 227V. They deliver almost 17,000 lumens, consume only 152W, and are half the width of the previous luminaires, adding a modern, sleek look to the arena. By comparison, the previous luminaires consumed 702W per fixture.

The Bottom Line

Prism helped QYA reduce its annual energy consumption from 140,750 kWh to 64,613 kWh, an energy reduction of 54%. As part of their services, Prism helped QYA secure \$21,693 in utility incentives from National Grid, the local utility provider. QYA will save nearly \$11,000 on its energy bills year-over-year. The retrofit project has a payback period of only 1.4 years, with a 59% ROI every year after it becomes cashflow positive.



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