

# West Vancouver Ice Arena



## CASE STUDY

Location: **West Vancouver, BC**

Application: **Indoor Ice Arena**



### Essentials Series 4.0 (ES4)

The ES4 delivers superior performance, quality and versatility in low bay and high bay applications. Designed with an even higher efficacy and a best-in-class thermal management, the Essentials Series 4.0 provides the highest reliability and best lumen maintenance in the industry while providing the lowest TCO.

### RESULTS

West Vancouver Ice Arena replaced 40 400W metal halides with the same number of Essentials Series High Bays. The upgrade doubled the footcandles, plus it reduced their energy consumption while improving safety.

**66%**  
ENERGY SAVINGS

**2x**  
BRIGHTER

**33,486**  
ANNUAL kWh SAVINGS

## OVERVIEW

The West Vancouver Ice Arena is a 22,100 square feet facility that operates year-round, hosting a variety of activities, including large events such as fundraisers, exhibitions and trade shows during the Spring/Summer, and hockey/skating parties, games and competitions during Fall/Winter.

## CHALLENGE

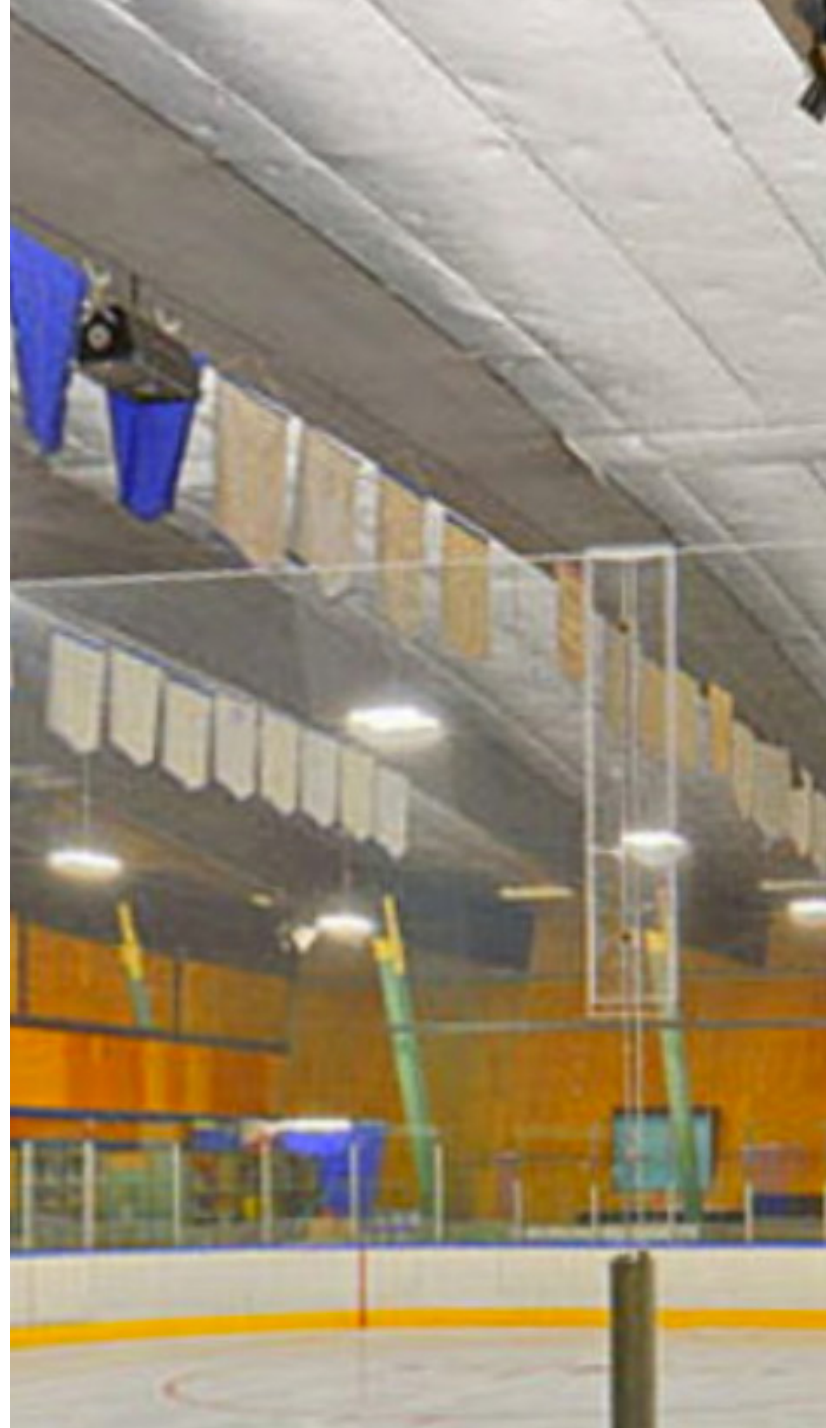
The existing installation included a total of 40 400W Metal Halide lamps. The West Vancouver Ice Arena was poorly lit with a foot candle reading below 25fc. The traditional light source had diminished to below acceptable standards. In addition, their energy consumption per year was 98,790 kwh. The City of West Vancouver was looking to replace their existing fixtures for an affordable LED solution that emphasized hydro savings and lighting quality.

## SOLUTION

Through an energy audit performed by CNJ Lighting Solutions and consideration of several LED lighting manufacturers, the City of West Vancouver selected Essentials Series LED High Bays to retrofit its 22,100 sq. ft. ice arena. They replaced a total of 40 400W Metal Halide lamps one-for-one with 40 Essentials Value Series (6-Module Short).

## RESULTS

With the change over to the updated lighting, the West Vancouver Ice Arena light levels increased from 25 footcandles to 50 footcandles. In addition, the new LED lighting upgrade is expected to significantly reduce their energy consumption to 33,486 kwh per year – a 66% increase in energy savings.



**The Essentials Value Series is an incredible improvement over our old lighting system. The electrical savings have already been seen and we expect to see even further savings during the off season when we have the capability to turn the lights on and off at our leisure."**

- David McKee, West Vancouver Energy Manager



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