

# international skating center of ct - case study



project overview	
annual kw savings:	46,807
annual kwh savings:	290,389
annual \$\$\$ savings:	\$29,038
CL&P incentive:	\$46,800
return on investment:	81%

**the international skating center of connecticut**, located in Simsbury, is the premier facility of it's kind in the Northeast. Olympic caliber skaters travel from around the globe to take advantage of practicing in this world class venue. The center also caters to amateur figure skaters as well as hockey players.

**alliance energy solutions** conducted a free audit/analysis of the facility to determine potential energy cost savings.

### background

The decision to go ahead with a complete installation of the latest lighting technology was ultimately be based on three major factors: significant energy savings; assurance that the quality of light would be at least as good as the original lighting; and, an installation schedule which would not interfere with rink time. Lighting to brighten the facility's twin ice skating rinks, along with power to run ice compressors, costs more than \$20,000 a month in electricity, according to center owner Jon Zieky. Banks of lighting were often shut off to conserve energy.

### the solution

**alliance energy solutions** presented a proposal which included an upgraded lighting system. The metal halide fixtures then in use, consumed an average of 1,075 watts each, while each replacement measure, a High Lumen Fluorescent array, consumes only 468 watts. The new measure provides higher Color Rendering Index (more vivid color). Benefits also include instant-on ability, along with reduced lumen depreciation, and avoided maintenance.



**alliance energy solutions** secured substantial incentives from the electrical utility to help fund the turnkey installation.

### results

General Manager Dave Roberts commented, "The crew was great. They worked a schedule to accommodate rink time and completed the project ahead of budget. The lighting is far better than it was and the instant-on lighting avoids delays, maximizing rink time. It seems we are saving \$100 per day in energy costs."

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