

Improving Efficiency of your existing ice rink services can improve the bottom line.

Does your ice rink appear to be working fine? Are your energy bills getting larger? Would you like to improve the quality of the ice and lower the cost of electrical usage?

Existing *ice refrigeration systems* and existing *building systems* were fine when the cost of energy was low. With electrical energy being the second most costly operating expense for the ice rink, just behind the cost of personnel, a reinvention of the refrigeration and building systems is imperative to the success of the business.

The refrigeration system creates ice. The quality of the ice and the cost to create the ice is dependent upon the marriage of the equipment, the building and the operating procedures. We partner with the best ice refrigeration engineers to provide a total facility report that takes all of your existing systems into account and indicates what should be upgraded or improved, how and why.

When we create a new facility we specify what is required to provide the 'perfect' environment for the ice and the people who use the ice. The refrigeration systems are then designed to provide the 'perfect ice'. Just as in a new facility we coordinate your building, your systems and your operations to provide that perfect ice and reduce the cost of energy and operations. Maintenance schedules and operational procedures will be defined to minimize the energy costs.

We will evaluate your **existing facility** and reveal what can be done to improve all aspects of the operations. The existing facility must provide both a safe environment and one that has quality air control. All systems must be improved to provide efficient operations and cost controls.

We will evaluate and review:

- HVAC in totality - Effectiveness of Dehumidification - Types of and Condition of Refrigeration System Components - Test Controls - Test Safety Systems - Review Operations Sequence - Review Energy Bills - Review how you make ice - Test and review the air quality
- Review insulation and emissivity of the building - Suggest operational improvements.

We can install components and fine tune your system and reclaim even more of the heat loss from the refrigeration system and use it to heat water for resurfacing, domestic hot water, bleacher seating, under floor heating and many more areas. **The energy savings can offset the cost of the electrical energy required for your normal refrigeration system.** The facility that protects the environment and minimizes the expense of operations may be eligible for many grants.

The City Council (of a Northern USA City) has authorized applying for an Energy Efficiency and Conservation Block Grant funded by the American Reinvestment and Recovery Act of 2009.

The grant money would be used to reduce energy costs at the arena by one or more of the following: Replacing light fixtures in various areas of the arena; Installing a low emissivity reflective ceiling over the ice sheet; Installing new equipment; Improving heat reclaim and dehumidification systems, etc.

The city was eligible to receive up to \$100,000 in grant money.

Contact us for additional information and let us improve your ice rink bottom line.