

Arena Renovation Specialists

Mission: Helping Building Owners Save Energy

IS YOUR ARENA AS EFFICIENT AS IT COULD BE?



Ice arenas are universally recognized as the highest electrical consuming and generally most inefficient of all public buildings. In most

facilities hidden inefficiencies exist that drive up operating costs and can shorten equipment life.

You are thinking about a renovation but you need to consider:

- ↳ What is the size and age of your refrigeration plant?
- ↳ What control strategy should you use?
- ↳ What conservation measures will be most effective?
- ↳ Are there incentive plans available to assist with funding?

Efficiency Engineering is here to help you navigate through the murky waters of arena renovation. As an independent consulting firm, we provide unbiased advice to help you achieve your renovation and energy conservation goals. We have a complete roster of qualified engineers and support personnel specializing in:

- ✓ Refrigeration Design
- ✓ HVAC Design
- ✓ Electrical Design
- ✓ Structural Design
- ✓ Project Management

MECHANICAL AND ELECTRICAL ENGINEERS SPECIALIZING IN BUILDING RETROFIT, ENERGY MANAGEMENT AND LEED FACILITATION

Efficiency Engineering Inc. (EE) began helping building owners save energy in 1990. Since then, we have been continually developing our processes to remain on the cutting edge of energy auditing and retrofit project management. Our services have been used in over 2900 buildings accounting for more than 150 million ft² of floor space and recommended more than \$75 million in potential energy savings and renewable energy production.

EE is on the leading edge of the niche market it serves. We uncover, design and manage facility systems solutions, with emphasis on economic feasibility and environmental benefit.



"A KEY STRENGTH FOR EFFICIENCY ENGINEERING IS THAT THEIR ATTENTION TO DETAIL IS SECOND TO NONE. THE TIMING OF THEIR PROJECTS IS EXCELLENT. THEY ALWAYS DELIVER ON TIME. AND WHEN WE ARE PLANNING A PROJECT, WE CAN COUNT ON THEM TO ADD REALISTIC NUMBERS TO OUR BUDGET"

Chris Herstek
Former Recreation Manager
City of Hamilton

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PRELIMINARY ANALYSIS

- Help you define your energy retrofit objectives.
- Conduct an ASHRAE level 2 Energy Audit of your facility to determine the best approach to your renovation.
- We use the latest energy modeling and project management tools to determine the most viable options for your arena.

INVESTMENT AND CONSUMPTION ANALYSIS

- Consider various financial performance indicators and timeframes to better manage the risk involved with your project.
- Survey all available incentives applicable to your project.
- Provide a comprehensive list of all recommended measures.
- Calculate payback scenarios based on utilities saved.

DESIGN

- EEI will produce drawings and specifications to create a fair and competitive environment for bidding contractors.
- Our designs allow contractors to utilize their unique systems and ensure performance and longevity are not compromised.
- EEI adapts with the evolution of the industry to stay well informed of the latest systems.
- We have extensive knowledge in building energy systems, giving us the ability to ensure your refrigeration plant is right for your facility.

CONSTRUCTION MANAGEMENT

- Our tendering process will help in selecting the right contractor for the job, an often overlooked but critical step in getting the most out of your project.
- EEI will conduct comprehensive site inspections throughout the construction phase to ensure the design intent is met.
- We will monitor Contractor progress as the Prime Consultant and administer all CCDC Contracts.

PROJECT MANAGEMENT

- All of our projects are managed in accordance with the Project Management Institute's (PMI) project management discipline.
- As our client, you can expect commitment to:
 - ✓ Communication
 - ✓ Risk Planning and Management
 - ✓ Project Deliverables
 - ✓ Effective management of Cost, Time & Scope

