

CAMA Awards 2011

City of Mount Pearl, NL
2011 Environment Award, Certificate of Merit
(Population between 20,001 and 100,000)
Glacier Arena Expansion – Eco Chill System

An arena expansion, using state-of-the-art energy efficient and innovative technologies, will help Mount Pearl reduce its energy consumption and greenhouse gas (GHG) emissions, yield savings to taxpayers and provide a healthier indoor environment for staff and visitors.

The City of Mount Pearl, NL is committed to environmentally sustainable governance, to protecting the environment and to combating climate change. In its recently adopted integrated community sustainability plan, the City vowed to protect the environment by reducing energy consumption and greenhouse gas emissions.

The municipality has been actively minimizing its ecological footprint for many years. When it came to building a new arena, it made sense for the city to attach the new 85' X 200' ice surface to its existing Glacier Arena. As part of this project, a number of initiatives were incorporated to provide long lasting, positive and measurable results in support of the environment.

Some of the key features of the project included a refrigeration plant called the Eco Chill System that uses an ammonia-based refrigeration system with all of the rejected heat being recycled back into both arena facilities. Wastewater is re-used wherever possible and fixtures and plumbing have been designed to reduce potable water consumption.

The project accommodates alternate modes of transportation by building bicycle storage and hybrid fuelling parking spaces right into the project. Lights automatically shut off and there are dimming sensors in larger spaces. The municipality is also using a public awareness / interactive educational science tool in the facility called Windows on the World (WOW), which helps promote energy conservation to others.

The building was built to achieve Silver-level Leadership in Energy and Environmental Design (LEED) certification.