

City of Kamloops

Submission to the
Community Energy Association
for the
2006 Energy Aware Award

Executive Summary

The City of Kamloops has just solidified its position as “Tournament Capital of Canada” with two new state of the art sports complexes. These two facilities are not only top notch sports complexes but they were built using the latest energy efficient technologies.

The Arena at the M^cArthur Island Sports Center was built using a state of the art heat recovery system that captures refrigerant plant waste heat and reuses it in a number of different functions throughout the building. These incorporated energy saving measures reduced overall energy consumption of this facility by 43% relative to a reference building. This equates to ~\$100,000.00 savings per year.

The Hillside Fieldhouse is being built with geothermal ground source heat pumps that will take advantage of the relatively constant temperature of the soil and provide a heat source and heat sink for the building's mechanical system. A heat recovery system is also going to be installed for further energy savings. Overall energy saving measures are expected to reduce annual consumption by ~38% or an estimated \$76,000 per year.

Along with the energy efficient systems both buildings were designed using energy efficient methods like using recycled materials and an on-site waste management plan. Both buildings will be certified up to the “Silver” standard of the LEED™ (Leadership in Energy and Environmental Design) green buildings program. The City is very proud of these two buildings and is therefore applying to the Community Energy Association to be considered for the 2006 Energy Aware Award.