



COLD LAKE ENERGY CENTRE EXPANSION (PHASE 3)

ABOUT THIS PROJECT

- + Phase three of the expansion included the addition of a second NHL-sized ice rink, change rooms, additional meeting space, a climbing wall, offices, and lounge space, to the existing recreational centre.
- + The mechanical design included HVAC systems for common areas and the ice rink.
- + Air handling units and make-up-air units are capable of delivering 100% outdoor air when outdoor air conditions allow.
- + The design for the new expansion consolidated existing building automation system controls into a single, new “front end” building management system to create a sole point of reference for the building operator.
- + The expansion of the existing ice plant required additional compressors to increase capacity, and coordination with the previous refrigeration contractor.
- + The large space required multiple air handling units with pressurization controls, which were integrated for uniform pressurization across the existing facility and new addition.
- + The climbing wall in the main concourse area required flexible distribution of ventilation to avoid adversely affecting climbing wall users.
- + The project scope included a new field house, separate to the recreational centre, with dressing rooms and outdoor spectator seating.

LOCATION
Cold Lake, AB

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical

KEY TEAM MEMBERS
BR2 Architecture

SIZE
64,500 sq. ft. (6,000 sq. m.)

BUDGET
\$28 Million

COMPLETION YEAR
2018

HOT BUTTONS

ARENA

RECREATION CENTRE

DESIGN-BID

CLIMBING WALL

MECHANICAL DESIGN

BAS

ICE RINK

RENOVATION