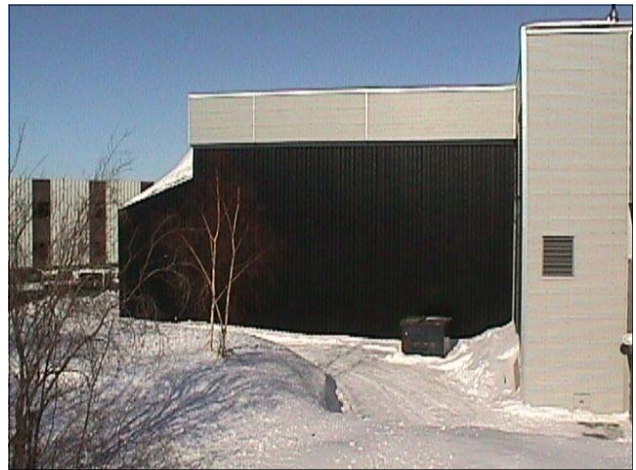




Institutional Arctic Schools Nunavut and Northwest Territories



Attaituq School, Rankin Inlet, Nunavut



Weledeh Catholic School, Yellowknife, NWT

Alaittuq School Rankin Inlet, Nunavut

SolarWall® systems work especially well in cold and northern climates because the low azimuth of the spring sun reflects the sunlight off the snow. This enhances the performance of the system by 50-70%, which compensates for the shortened duration. The returns are also substantial given the high proportion of days in the spring, summer, and fall that are extremely sunny, yet very cold. This means that heated indoor air is always required.

Conserval Engineering was contacted regarding supplying cladding and a new air ducting system for a retrofit installation of the high school gym annex at Alaittuq School. A 710 ft² (66 m²) green SolarWall heater was installed that tied into the existing ventilation system, upstream from the heating coils.

The system is going to be monitored, and the results will serve as an educational tool in instructing students about environmental technologies.

Weledeh Catholic School Yellowknife, Northwest Territories

A 2150 ft² (200 m²) SolarWall heater was installed on the south wall of the new Weledeh Catholic School in Yellowknife. As well as ensuring excellent indoor air quality, the system will save \$12,300 each year, using 2000 energy prices, by displacing the 8,700 litres of oil that would be needed to heat ventilation air.

Energy savings accrue from the solar, and from the reduced heat loss during winter; most of the heat that would normally escape through the south wall is captured by incoming air and returned to the building with pre-heated fresh air.

However, for the Weledeh School, one of the most important selling features of the SolarWall heating system was that it could be used by the teachers as a teaching device to promote environmental awareness among students. For example, the elementary students learn that their new solar air heater reduces greenhouse gas emissions by 26 tons each year.

Natural Resources Canada provided a grant of 40% of the cost to install this renewable energy system and to displace expensive, polluting, fossil fuels.

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