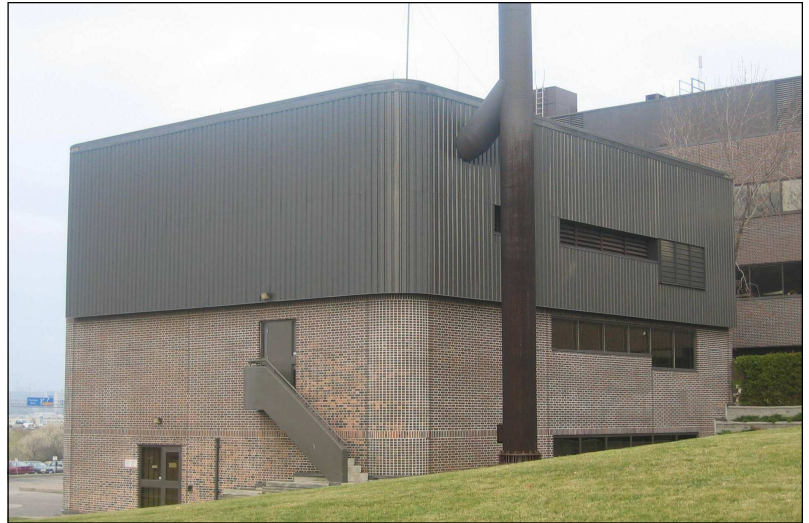


Government Health Canada



Classic bronze SolarWall® panels were wrapped around the south and east wall of this Health Canada building in Toronto, Ontario

Background

Conserval Engineering was contacted to do a feasibility study of this Toronto area Health Canada facility. Public Works Canada, which manages federal buildings, commissioned the study to evaluate the potential for installing solar heating technology somewhere in the complex. After running various simulations, it was determined that the south and the east walls of the laboratory building would generate the most energy and cost savings. Consequently, Health Canada chose these two walls as the site of their first SolarWall® system.

Solution

Labs require a high volume of ventilation air, and heating that air can be very costly. 185m² (1975 ft²) of SolarWall panels were installed on the upper part of the building, over the existing brick wall. The system was designed so

that the panels would curve around the building, creating a visually appealing façade. Bronze panels were selected to blend in with the overall appearance of the rest of the complex.

The SolarWall system connects to the existing air intake on the east wall to supply 14,000 cfm of ventilation air. This preheated air is ducted into the building's HVAC system, and is then distributed via conventional methods throughout the various labs.

The Health Canada SolarWall installation displaces 12,300 m³ of natural gas every year, producing annual energy savings of 390 GJ and CO₂ savings of 23 tones/yr.

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