References

Manitoba Hydro Place



Uponor involvement

Project highlights

- 18-floor office building in Winnipeg, Manitoba, Canada
- Features Uponor radiant heating and cooling'
- Uses solar, geothermal and hydroelectric energy sources
- Predicted to use 65% less energy than similar buildings
- Awarded AIA's 2010 COTE Top Ten Green Project
- Expected to attain LEED® Platinum certification

Products used

- Wirsbo hePEX™ Tubing
- TruFLOW Manifolds

Manitoba Hydro Place uses Uponor radiant heating to stay warm during Manitoba winters

See how Uponor hePEX is being used to heat an 18-floor building in a location where temperatures can dip below 0°F... Manitoba Hydro Place, the fourth-largest government-owned electric and natural gas utility in Canada, is located in one of the most challenging cities for extreme weather. Temperatures typically reach well below 0°F (-18°C) during the winter months. Yet the entire 18-floor building is being effectively and efficiently heated by renewable sources — the sun and geothermal wells, supplemented by hydroelectric power — all distributed throughout the facility by several different application methods, including an Uponor radiant heating and cooling system.

Project Facts:

Location	Completion
Winnipeg, Manitoba, Canada	2009

Building Type

Industrial buildings

Project Type

New building

Uponor hePEX helps the building use 65% less energy than similar buildings in the area

The building, which was completed in September 2009, is expected to use 65% less energy compared to similar buildings in the area. Based on simulation, the annual energy use of the building is predicted to be around 29 kBtu/ft2 (330MJ/m2), which is a 65% reduction from the base case. Additionally, the annual carbon footprint is predicted to be 1.1 lbs. CO2/ft2 (5.4 kg CO2/m2).

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