



## 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

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## 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.

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**Project Facts:**

Location

Winnipeg, Manitoba, Canada

Completion

2009

Building Type

Industrial buildings

Project Type

New building

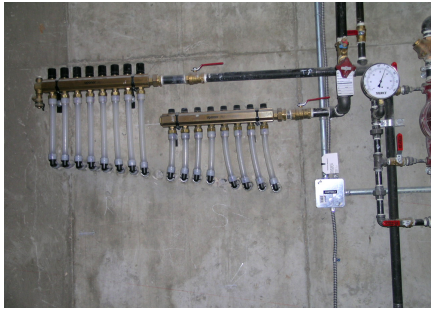
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## **Uponor hePEX helps the building use 65% less energy than similar buildings in the area**

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/ft<sup>2</sup> (330MJ/m<sup>2</sup>), which is a 65% reduction from the base case. Additionally, the annual carbon footprint is predicted to be 1.1 lbs. CO<sub>2</sub>/ft<sup>2</sup> (5.4 kg CO<sub>2</sub>/m<sup>2</sup>).

### **Manitoba Hydro Place**





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