



SMARTCENTRES PLACE VAUGHAN METROPOLITAN CENTRE (PWC-YMCA TOWER)

VAUGHAN, ON

QUICK FACTS

- + Office Building
- + Mixed-Use
- + LEED® Gold (Target)
- + 220,000 square feet
- + Smith + Andersen Mechanical, Electrical, Safety and Security





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ABOUT THIS PROJECT

- + PWC-YMCA Tower is the second building in the long-term development of the Vaughan Metropolitan Centre (a new downtown core for the City of Vaughan).
- + Mixed-use building containing a nine-storey core and shell office building, a YMCA facility, a City of Vaughan Library, and ground floor retail.
- + Mechanically, the team utilized magnetic-bearing chillers, condensing boilers, and a variable flow outside-air air handler to achieve LEED Gold certification.
- + The cooling towers are capable of operating in free cooling mode, which meet the building's chilled water requirements in shoulder and winter seasons without the use of the chillers.
- + Improved indoor air quality and thermal comfort is achieved through the use of under-floor air distribution on the office floors.
- + The building uses low-flow plumbing fixtures in conjunction with a reclaimed rainwater cistern to minimize potable water usage.
- + Electrically, the team designed the power distribution, fire alarm, and lighting systems.
- + Power for the building is serviced by two high-voltage transformers, which allow for 100 per cent redundancy.

LOCATION

Vaughan, ON

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical,
Safety and Security

SIZE

220,000 sq. ft. (18,580 sq. m.)

BUDGET

Confidential

COMPLETION YEAR

2019

SUSTAINABILITY

LEED Gold (Target)

HOT BUTTONS

OFFICE

NEW BUILDING

MECHANICAL DESIGN

ELECTRICAL DESIGN

SECURITY

LEED GOLD

