



# SMARTCENTRES PLACE VAUGHAN METROPOLITAN CENTRE (PWC-YMCA TOWER)

VAUGHAN, ON



## QUICK FACTS

- + Office Building
- + Mixed-Use
- + LEED® Gold (Target)
- + 220,000 square feet
- + Vaughn Urban Design Awards, *Award of Excellence* (2022)
- + Smith + Andersen Mechanical, Electrical, Safety and Security







# SMARTCENTRES PLACE VAUGHAN METROPOLITAN CENTRE (PWC-YMCA TOWER)

## 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)

### AWARDS

Vaughn Urban Design Awards,  
*Award of Excellence* (2022)

## HOT BUTTONS

OFFICE

NEW BUILD

MECHANICAL

ELECTRICAL DESIGN

SECURITY

LEED

