

# Waterpark Place

Oxford Properties, Toronto



## WSP SMART™ SOLUTION

The client had three major objectives that were achieved for the design of this building - to increase collaboration in the workplace, integrate innovation in the design, and create the most sustainable building possible. Waterpark Place is considered one of the first 'smart' buildings in North America from the advanced technology that's integrated into the building's floors.

## MAKING SMART™ CONNECTIONS

- Each light has its own IP address which can be controlled with an app or a computer.
- Occupancy and weather data is collected and is used by the air-conditioning system for optimal temperature control.
- The building uses renewable energy from sources including an innovative water cooling system using water from Lake Ontario.

## PROJECT OVERVIEW

SECTOR SERVED		SOLUTION DELIVERED		FUTURE READY®	
Public Sector + Private Sector					
 Property & Buildings	 Environment	 Design/Build	 Advisory Services	 Technology	 Society
 Energy & Resources				 Resources	 Climate

## PROJECT SUMMARY

WSP Smart™ Solutions helped the client achieve three major objectives for the design of this building - to increase collaboration in the workplace, integrate innovation in the design and create the most sustainable building possible.



WSP helped integrated the fibre backbone throughout the building that allows connected and customised use of technology with the following features:

When an employee enters the building and swipes their card, the elevator will take the person to their designated floor. Room lighting and the temperature are adjusted to the occupant's profile and preferences, which also helps save energy by tracking movement. A higher number of connecting devices are integrated into the tower, allowing various building services to be computer-controlled, including blinds on the windows. A sub-metering system that monitors energy and water use in the building to determine energy efficiency, providing people with real-time consumption readings.

The technology on the building's floor is integrated with IP technology. Each light has its own IP address which means it can be controlled with an app or a computer. Lights are powered via Ethernet, not electrical wires, safe guarding the office against the risk of power failures, and the lighting fixtures can be easily moved for future needs.

Occupancy and weather data is collected and used by the air-conditioning system for optimal temperature control. The technological part of this work was carried out by Cisco.

The building uses renewable energy from sources including an innovative water cooling system using water from Lake Ontario. The thoughtful placement of glazing optimizes the amount of natural light entering the building to create a comfortable environment for employees. The open space areas promote flexibility, collaboration and encourage creativity.

The sustainable design solutions implemented in the design of the building enabled Waterpark Place to become the first office building in Toronto to achieve LEED Core and Shell Platinum certification.

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## WSP SMART™

WSP Smart™ integrates technology, sensors, communication and real-time analytics capabilities with the environment. WSP Smart™ brings new thinking to designing cities, buildings, infrastructure, across the built and natural environment.

## CONTACT US

For more information on WSP Smart™, please contact [Lucy.Casacia@wsp.com](mailto:Lucy.Casacia@wsp.com)

## ABOUT US

As one of the world's leading professional services firms, WSP provides engineering and design services to clients in the Transportation & Infrastructure, Property & Buildings, Environment, Power & Energy, Resources and Industry sectors, as well as offering strategic advisory services. Our experts include engineers, advisors, technicians, scientists, architects, planners, surveyors and environmental specialists, as well as other design, program and construction management professionals. With approximately 49,800 talented people globally, and



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