

LA PROMENADE

OTTAWA, ON, CANADA

GOVERNMENT

PARLIAMENTARY RETROFIT

Built in 1972, La Promenade Building is a 12-storey federal government structure located one block from the Canadian Parliament Buildings. With the capital buildings in the early stages of a dramatic 25-year rehabilitation project, La Promenade was retrofitted to welcome 62 Members of Parliament and provide 3 committee rooms.

PROJECT DETAILS

At the onset of the project, La Promenade was at the end of its life cycle and required a significant upgrade to its exterior envelope and mechanical and electrical systems in order to meet the Parliamentary mandate. As a result, the building's 12 floors were completely gutted and renovated.

Instead of having on-site boilers and chillers, La Promenade (and all other Parliament buildings) receive chilled water and low-pressure steam from a central boiler plant. The mechanical rooms are outfitted with 9 AHUs with VFDs and humidification control along with approximately 400 VAV boxes. There is also steam to hot water heat exchangers for hydronic heating.

The project had a critical time line and stringent security access requirements, but the main challenge in completing the project was maintaining existing AHU and equipment that serviced street-level retail units throughout construction period. Energy savings will be based on reset schedules, as the BAS allows control based on outdoor air temperature.

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PROJECT TYPE:

Retrofit

INSTALLATION TYPE:

CO Monitoring, CO₂ Monitoring, Fan Coil Unit, HVAC, Smoke, VAV

TOTAL AREA:

29,729 m² (320,000 ft²)

EQUIPMENT INSTALLED:

2 MACH-ProPoint™
 2 MACH-Zone™
 2 MACH-Stat™
 3 MACH-ProCom™
 3 MACH-ProSys™
 6 MACH2X™
 7 MACH2™
 400 MACH-Air™

NETWORK:

EIA-485, Ethernet, LAN

TOTAL SYSTEM POINTS:

2,200 points

ENGINEERING CONSULTANT:

Fox Engineering

RELIABLE CONTROLS® DEALER:

R.E.L. Controls

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