



PLACE DE L'ESCARPEMENT

LEED GOLD CERTIFIED

Case Study **CITY MULTI®**

Overview

Located in a new commercial development near the major freeways of Québec City, the designers of Place de L'Escarpement aimed for a LEED GOLD certification. To achieve such high level of expectations, the developer needed a reliable HVAC system that would optimize energy efficiency while providing their occupants advanced control over thermal comfort. By installing capacities of nearly 4 million Btu/h of City Multi Water-Source systems, the building now serves simultaneous heating and cooling using geothermal energy over its 148,000 sq. ft. of floor space. From a combination of geothermal, heat recovery and lighting fixtures, this office building is designed to reduce energy consumption by more than 55 percent compared to the reference model building based on CMNEB standards. The amount of energy saved annually will be able to provide electricity to 110 standard single family homes each year. Place de L'Escarpement is the largest geothermal installation in Quebec City and is also one of the top 10 most efficient buildings in its class in Canada.

Solution

Outdoor unit		BC Controller		Indoor Unit		Controllers	
Qty	Model Name	Qty	Model Name	Qty	Model Name	Qty	Model Name
39	PQRY-P96TGMU-A	23	CMB-P1010NU-G	53	PDFY-P06NMU-E	10	G-50A-J
2	PQRY-P96TGMU-A	4	CMB-P1013NU-G	112	PDFY-P08NMU-E	300	PAC-SE51CRA-J
1	PQRY-P96TGMU-A	3	CMB-P1016NU-G	31	PDFY-P12NMU-E	7	PAC-YG60MCA-J
1	PQRY-P96TGMU-A	6	CMB-P1016NU-GA	2	PDFY-P18NMU-E	48	PAR-21MAA-J
1	PQRY-P96TGMU-A	2	CMB-P105NU-G	1	PDFY-P30NMU-E		
		6	CMB-P106NU-G	1	PDFY-P48NMU-E		
		2	CMB-P108NU-G	4	PEFY-P15NMHU-E		
			CMB-P108NU-GB	75	PEFY-P18NMHU-E		
				40	PEFY-P24NMHU-E		
				9	PEFY-P27NMHU-E		
				9	PEFY-P30NMHU-E		
				34	PEFY-P36NMHU-E		
				6	PEFY-P48NMHU-E		
				1	PKFY-P12NGMU-E		

