

# AN ANNUAL SUPPLEMENT 2022 LEED® CANADA / ZCB BUILDINGS-IN-REVIEW



## A RECORD OF LEED AND ZERO CARBON BUILDINGS CERTIFIED IN 2022

### PLATINUM

- 100 Queens Quay East, Toronto, ON, Menkes 55 Lakeshore Inc.
- 100 Sheppard Ave. East Recert., Toronto, ON, Manulife Investment Management
- 1255 Bay Street Recert., Toronto, ON, BentallGreenOak (Canada) LP
- 145 King Street West, Recert., Toronto, ON, QuadReal Property Group
- 16 York Street, Toronto, ON, The Cadillac Fairview Corporation Ltd.
- 1600 Carling Avenue, Recert., Ottawa, ON, Manulife Investment Management
- 200 King Street West, Recert., Toronto, ON, QuadReal Property Group
- 227 King Street South, Recert., Waterloo, ON, BentallGreenOak
- 270 Albert Street, Recert., Ottawa, ON, Blackwood Partners
- 320 Front Street West Complex Recert., Toronto, ON, H&R REIT
- 600 Cochrane Dr., Recert., Markham, ON, Canadian Urban Limited
- 70 York Street, Recert., Toronto, ON, Canderel (Maple Tree Financial Management Canada Inc.)
- 7100 West Credit Ave, Recert., Mississauga, ON, Manulife Investment Management
- 77 Bloor St., Recert., Toronto, ON, Bay Bloor Equities & Morguard REIT
- ATB Place, Recert., Edmonton, AB, Triovest Realty Advisors Inc
- Commerce South Office Park Building B, 8657 51 Avenue, Edmonton, AB, BentallGreenOak
- Guinness Tower Recert., Vancouver BC, Oxford Properties Group
- Le 1500 & Centre Eaton de Montreal Est, Recert., Boul Robert-Bourassa, Montreal, QC, Ivanhoe Cambridge
- Le 3e Lieu, Longueuil, QC, Belvédair
- Maison 402, Longueuil, QC, Procontact
- Maison Manuvie, Montréal, QC, Ivanhoe Cambridge Inc.
- Maison Saint-Antoine, Montréal, QC
- Meadowvale Corporate Centre, Plaza One, Recert., Mississauga ON, QuadReal Property Group
- Minto Place, Recert., Ottawa, ON, Minto Properties Inc.
- MTS Call Centre, Recert., Winnipeg, MB, Artist REIT
- Nutrien, River Landing Fit-Up, 211 19th Street East, Saskatoon, SK, Nutrien
- One University Avenue, Recert., Toronto, ON, Oxford Properties
- QRC West, Recert., 134 Peter Street, Toronto, ON, Allied Properties REIT
- Résidence Berthiaume-Desbiens, Chambly, QC
- Résidence Dalcensecerie, Rivière-du-Loup, QC, TERGOS Architecture + Construction
- Roddan Lodge & Evelyn Saller Centre, Vancouver, BC, City of Vancouver
- Teknion Montréal, Montréal, QC, Teknion LLC
- Telus Garden Office, Recert., Vancouver, BC, Warrington PCi Management
- Vancouver Convention Centre West, Recert., Vancouver, BC, PavCo

### GOLD

- 1 Adelaide St. E (Dynamic Funds Tower), Recert., Toronto, ON, GWL Realty Advisors
- 10 Four Seasons Place, Etobicoke, ON, FANA Burnhamthorpe Square
- 1001 De Maisonneuve Ouest, Montréal, QC, Centre Manuvie
- 1100 Melville Street, Recert., Vancouver, BC, BentallGreenOak
- 1130 West Pender, Recert., Vancouver, BC, BentallGreenOak
- 1140 West Pender, Recert., Vancouver, BC, BentallGreenOak
- 1235 Bay St., Recert., Toronto, ON, BentallGreenOak
- 1577 North Service Road East, Recert., Oakville, ON, Manulife Investment Management
- 160 Bloor Street East, Recert., Toronto, ON, Colliers International
- 17150 Yonge Street, Newmarket, ON, The Regional Municipality of York
- 175 Bloor St. East, Recert., Toronto, ON, Allied Properties REIT
- 3115 Harvester Road, Recert., Burlington, ON, Colliers International
- 3rd Avenue, Recert., (Golder Bldg), Calgary, AB, Epic Realty Partners
- 401 West Georgia Recert., Vancouver, BC, Oxford Properties Group
- 495 Beaumont, Montréal, QC, Group Montoni (9367-6815 Quebec inc)
- 500 Lakeshore Boulevard West, Toronto, ON, 500 LS Limited Partnership
- 5045 South Service Rd, Recert., Burlington, ON, Manulife Investment Management
- 5090 Explorer Drive, Recert., Mississauga, ON, Manulife Investment Management
- 5343 Dundas St. West, Recert., Etobicoke, ON, Manulife Real Estate
- 5353 Dundas St. West, Recert., Etobicoke, ON, Manulife Real Estate
- 585 Michigan Drive, Oakville, ON, Blackwood Partners Corporation
- 5995 Avebury Road, Recert., Mississauga, ON, Crown Property Management
- 60 Queen St., Recert., Ottawa, ON, Arnon Development Corporation Limited
- 603 Michigan Drive, Oakville, ON, Blackwood Partners Corporation
- 6711 Mississauga Road North, Mississauga, ON, Recert., Manulife Investment Management
- 6775 Financial Drive, Recert., Mississauga, ON, QuadReal Property Group
- 720 King West, Recert., Toronto, ON, Triovest Realty Advisors Inc.



- 777 Hornby, Recert., Vancouver, BC, QuadReal Property Group
- 800 Chomedey, Recert., Laval, QC
- 8X ON THE PARK, Vancouver, BC, Brenhill Development
- Aaniin Community Centre & Library, Markham, ON, City of Markham
- Aleda Patterson K-12 School, Edmonton, AB, Edmonton Public School Board
- Alex Janvier K-12 School, Edmonton, AB, Edmonton Public School Board
- Aréna René-Masson, Montréal, QC, Ville de Montréal
- Arts Student Center at UBC, Vancouver, BC, UBC Properties Trust
- ATCO Centre, Recert., Edmonton, AB, Triovest Realty Advisors Inc
- Bibliothèque de Pierrefonds, Montréal, QC, Ville de Montréal
- Brighthouse Fire Hall No. 1, Richmond, BC, City of Richmond, Capital Buildings Project Development
- Brookfield Place Calgary East, Recert., Calgary, AB, Brookfield Place (Calgary) LP
- Campagne en ville, Mont-Jacob, Jonquière, QC
- CBC Toronto Broadcast Centre, Toronto, ON, Canadian Broadcasting Corp.
- Cenovus Energy - Brookfield Place Calgary, Floors 29-56, Calgary, AB, Cenovus
- Centre Bell - Arena des Canadiens, Recert., Montreal, QC, Canadiens de Montréal, Centre Bell
- Centre de tri des matières recyclables (CTMR), Lachine, QC, Ville de Montréal, service de la gestion et planification immobilière
- Centre for Mental Health and Addictions, Coquitlam, BC, Provincial Health Care (IBI Group)
- Centrium Place-Recertification, Calgary, AB, c/o Triovest Realty Advisors Inc
- Chartwell Shopping Centre Building D, Scarborough, ON, First Capital Asset Management LP
- Cité Angus, Phase 1, Montréal, QC, Société de développement Angus
- Claystone Waste Administration Building, Ryley, AB, Beaver Municipal Solutions
- Collaborative Health Education Building (CHEB), Halifax, NS, Dalhousie University
- Commerce Court North, Recert., Toronto, ON, QuadReal Property Group
- Commerce Place, Recert., Vancouver, BC, QuadReal Property Group
- Complexe des sciences de l'Université de Montréal, Montréal, QC, Université de Montréal
- Curtiss A, Saint-Laurent, QC, Sotramon
- Deerfoot Atria - North Bldg. Recert., (2 locations) Calgary, AB, BentallGreenOak (Canada) LP
- Devonshire Mall Common Area, Windsor, ON, Primaris REIT
- Dockside Green Cl-3, Victoria, BC, Acheson Sweeney Foley Sahota LLP
- Dr. Freda Miller School, Calgary, AB, Calgary Board of Education
- Duplex : 680 rue Frontenac, Berthierville, QC, Construction Guillaume Bond inc.
- Écohabitations boréales, (Multiple locations) Sainte-Marguerite-du-Lac-Masson, QC, Écohabitations boréales inc.
- École Templeton, Winnipeg, MB, Seven Oaks School Division
- Édifice Marly, Québec, QC, Industrielle Alliance Groupe financier
- Executive Place 2, Calgary, AB, Avison Young (Industrial Alliance Insurance and Finance)
- Explosive Ordinance Disposal Training Facility, Oromocto, NB, Department of National Defence Canada
- Father Michael Mireau Catholic School, Edmonton, AB, Alberta Infrastructure
- Four Winds Public School, Morinville, AB, Alberta Infrastructure, Learning Facilities
- Gatineau 2 - Library and Archives Canada, Gatineau, QC, Plenary Group
- General Dynamics Office Building, Recert., London, ON, General Dynamics Land Systems
- Harris Square (River City 4), Toronto, ON, Urban Capital Property Group
- Havergal College Limitless 2020 Additions, Toronto, ON, Havergal College
- HSBC Place, Edmonton, AB, Epic Investment Services
- Hydro Ottawa, Administration Building, Operations Building - East Campus, Operations Building - South Campus, Ottawa, ON, Hydro Ottawa Ltd
- Jacobs Building, Recert., Calgary, AB, Epic Realty Partners
- KAIA Maison de ville (Multiple locations), Candiac, QC, Évaluations
- Kinesiology Building, Fredericton, NB, University of New Brunswick
- Kingston Frontenac Public Library - Central Branch, Kingston, ON, City of Kingston, Facilities Management & Construction Services
- L'Avenue Commercial, Montréal, QC, BentallGreenOak
- Le Memph, Magog, QC, Gestion Éco Dev inc.
- Le Windsor (1170 Peel), Montréal, QC, BentallGreenOak (Immeuble Le Windsor S.E.C.)
- Liquor Mart, Thompson, MB, Manitoba Liquor and Lotteries
- Livingston Place, Recert., Calgary, AB, QuadReal Property Group
- Livmore High Park, Toronto, ON, GWL Realty Advisors Inc.
- Maison Mistouk, Alma, QC, Home Owner
- Maison modele Mont Loup-Garou (CRF-653), Sainte-Adele, QC, Les Constructions Raymond et Fils inc.
- Manulife Place, Recert., Ottawa, ON, Manulife Real Estate
- Marilyn I. Walker School of Fine and Performing Arts, St. Catharines, ON, Brock University
- Marine Building, Recert., Vancouver, BC, Oxford Properties Group
- Mastercard - Toronto Office, Toronto, ON, MasterCard Incorporated
- McCallumSather Offices, Hamilton, ON, McCallum Sather Architects Inc.
- Meadowvale Corporate Centre Plaza Two, Mississauga, ON, Recert., QuadReal Property Group
- Meadowvale Corporate Centre Plaza Three, Recert., Mississauga, ON, QuadReal Property Group
- Miles Macdonell Collegiate Gymnasium, Winnipeg, MB, College Miles Macdonell Collegiate
- Minto One80Five, Recert., Ottawa, ON, Minto Properties Inc.
- MNP Tower, Recert., Vancouver, BC, Oxford Properties Group
- Mulroney Hall, Antigonish, NS, St. Francis Xavier University
- Nichol Place, Surrey, BC, BC Housing
- Northern Lights School, Calgary, AB, Calgary Board of Education
- Oceana PARC, White Rock, BC, Pacific Arbour Five Residences Ltd
- Oceanic Plaza, Recert., Vancouver, BC, Oxford Properties Group
- Okanagan College Health Sciences Center, Kelowna, BC, Okanagan College
- ONE60 Elgin, Recert., Ottawa, ON, H&R REIT
- Orford 2020, Residence Collette et Gravel, Orford, QC, Propriétaire
- Parq Vancouver, Vancouver, BC, Parq Vancouver
- Pine Ridge Elementary School, Winkler, MB, Garden Valley School Division
- Pivot, Toronto, ON, RioCan Real Estate Investment
- Résidence de Bullion, Montréal, QC, Home Owner
- Residence Hikspoors-Comtois, St-George-de-Clarenceville, QC, Belvedair Construction inc.
- Résidence Ladd + Turmel, Sainte-Marie, QC, Propriétaires
- Résidence Val des Prés, Plessisville, QC, Home Owner
- River Landing - North Tower, Saskatoon, SK, Triovest Realty Advisors Inc.
- Search and Rescue Station, Old Perlican, NL, Real Property, Safety and Security Fisheries and Oceans Canada | Government of Canada
- Seneca CITE: Levels 04 & 05 Fit-Up, Toronto, ON, Seneca College
- Sibylla Kiddle School, Calgary, AB, Calgary Board of Education
- Student Association of MacEwan University (SAMU) Building, Edmonton, AB, MacEwan University
- Sun Life Financial Centre, Recert., Ottawa, ON, BentallGreenOak
- Tilley School, Tilley, AB, Grasslands Public School District
- Toyota Parts Distribution Centre, Clarington, ON, Toyota Canada Inc.
- True North Square, Winnipeg, MB, TN Square Inc. c/o BentallGreenOak (Canada) Limited Partnership
- UBC Exchange Residence, Vancouver, BC, UBC Properties Trust
- Uplands - Building A, B, C, Nanaimo, BC, Starlight Investments
- Valleymede Towers, Richmond Hill, ON, Times Group Corporation
- Vancouver Firehall No.5 + Housing, Vancouver, BC, City of Vancouver
- Viridian, Vancouver, BC, Bentall Kennedy (Canada) LP
- Winnipeg Station, Winnipeg, MB, VIA Rail Canada
- York Major Medical Centre, Vaughan, ON, York Circle Holdings Inc c/o Metrus Construction

## SILVER

- 484 Spadina, Toronto, ON, Fitzrovia Real Estate Inc.
- 1055 RLE - bureaux de Retraite Québec, Montréal, QC, Le Groupe Alfid
- 1652/1672 Tricont Avenue, Whitby, ON, Lasalle
- 180 Wellington Street West, Recert., Toronto, ON, Manulife
- 1900 & 1908 Ironoak Way, Oakville, ON, Upper Middle Road LP
- 7260, Saint-Urbain, Montréal, QC, Monde Development (9595988 Canada inc.)
- 7685 Hurontario Street, Brampton, ON, Kallo Developments
- Aréna Fleury, Montréal Nord, QC, Ville de Montréal
- Aréna Roberto Luongo, Montreal, QC, Ville de Montréal, Arrondissement St-Léonard
- Transport and Electrical and Mechanical Engineering Building, Alouette, QC, DND DCC-MDN CDC
- BDC Office at 81 Bay St., Toronto, ON, Business Development Bank of Canada
- Bibliothèque Donalda-Charron, Gatineau, QC, Ville de Gatineau
- Bloomfield Works Yard Addition, Ottawa, ON, City of Ottawa
- Bona Office (2 locations), Ottawa, ON, Bona Building & Management Company Limited
- Border Business Park - Bldg. P, Nisku, AB, ONE Properties
- Bureau de WSP, Laval, QC, WSP Canada inc.
- Bureaux du Ministère de l'Immigration, de la Francisation et de l'Intégration, Montréal, QC, Ministère de l'Immigration, de la Francisation et de l'Intégration
- CAE COMOX Flight Training Center, Comox, BC, CAE
- Calgary Police Service, Spyhill Services Centre, Calgary, AB, Calgary Police Services
- Canadian Coast Guard Placentia MCTS Centre and Placentia Conservation & Protection Office, Placentia, NL, Government of Canada, Department of Fisheries and Oceans (RPSS)
- Carling Square, Recertif., Ottawa, ON, Amon Development Corporation Limited
- Centre Étienne-Desmarreau, Montréal, QC, Service de gestion et de la planification immobilière, Ville de Montréal
- Chalet de montagne, Stoneham, QC, Propriétaire
- Cooksville GO Transit Station, Mississauga, ON, EllisDon Infrastructure Transit
- Éco Entreprises Québec, Montreal, QC, Éco Entreprises Québec
- Écohabitations boréales - Lavoie, Morin-Heights, QC
- Écohabitations boréales - Prévost, Prévost, QC
- École Champs Vallée School, Beaumont, AB, Black Gold Regional Div. No.18
- École Waterford Springs School, Winnipeg, MB, Winnipeg School Division
- Ed Sackfield Arena Expansion, Richmond Hill, ON, Town of Richmond Hill
- EDC Office, Toronto, ON, Export Development Canada
- Édifice Louis-Philippe-Pigeon, Québec, QC, Industrielle Alliance, Assurance et services financiers inc.
- Enterprise Data Centre Borden, Recert., Borden, ON, BGIS Global Integrated Solutions (BGIS)
- Evanston K-6 School, Calgary, AB, Calgary Catholic School District
- Evolo X, Montréal, QC, Evolo X Condominiums inc
- Faubourg Cousineau (multiple locations), St-Hubert, QC, Habitations Lussier
- Garth Worthington School, Edmonton, AB, Edmonton Public School Board
- Groves Memorial Community Hospital, Fergus, ON, Groves Memorial Community Hospital
- Hawksbury OPP Detachment, Hawkesbury, ON, Infrastructure Ontario
- Hotel X, Toronto, ON, Princes Gates Hotel Limited Partnership
- Huron County OPP Detachment, Clinton, ON, Infrastructure Ontario
- Integrated Project Office - CBR, Ottawa, ON, PSPC
- Kevric - Consilium Place, Toronto, ON, Kevric Real Estate Corporation inc.
- La Salle School Addition, La Salle, MB, Seine River School Division
- Lakehead University Athletic Centre, Thunder Bay, ON, Lakehead University
- Langley Memorial Hospital Emergency Dept. Addition, Langley, BC, Fraser Health Authority
- Little Current OPP Detachment, Little Current, ON, Infrastructure Ontario
- Manitoba Finance Office, Winnipeg, MB, 2700760 Manitoba Ltd
- MAPLE, Halifax, NS, Southwest Properties Limited
- Marathon OPP Detachment, Marathon, ON, Infrastructure Ontario
- Margaret's Landing Apartments (multiple locations), Kelowna, BC, Ki-Low-Na Friendship Society
- Michael Phair School, Edmonton, MB, Edmonton Public School Board
- Mississauga OPP Detachment, Mississauga, ON, Infrastructure Ontario
- Morningside Elementary School (K-6), Airdrie, AB, Calgary Catholic School Division
- Niagara Region Police Station, St Catharines, ON, Niagara Region
- Niverville High School, Niverville, MB, Hanover School Division
- Orillia OPP Detachment, Orillia, ON, Infrastructure Ontario
- Oshawa GO Station Building, Oshawa, ON, Metrolinx - GO Transit
- Ottawa Art Gallery Expansion, Ottawa, ON, City of Ottawa
- Paradigm Condominiums, Burlington, ON, Molinaro Group
- Pary Sound OPP Detachment, Pary Sound, ON, Infrastructure Ontario
- Pavillon d'accueil de l'Assemblée nationale du Québec, Québec, QC, Assemblée nationale - Édifice Pamphile-Le May
- Pavillon Donald E. Armstrong Building, Montréal, QC, Université McGill University
- Pavillon Robert-Middlemiss, Gatineau, QC, Ville de Gatineau
- Prologis Park 410 Distribution Centre 3, Caledon, ON, Prologis Inc.
- Queen Elizabeth II Planetarium, Edmonton, AB, City of Edmonton
- Rainy River District OPP Detachment, Rainy River, ON, Infrastructure Ontario



## SILVER

- Résidence de la Famille Drapeau, Lévis, QC, Tergos Gestion Inc
- Résidence Les Pionnières, Ville Saint-Laurent, QC, 9392-6137 Quebec inc. c/o Groupe Santé Sedna
- Riverside Neighbourhood, St. Albert, AB, Coventry Homes
- Sister Alphonse Academy K-9 Catholic School, St. Albert, AB, Greater St. Albert Catholic School
- Southfields Community Centre, Caledon, ON, Town of Caledon
- St. Lawrence College Historical Newcourt House, Kingston, ON, St. Lawrence College
- StoneGate D, Calgary, AB, ONE Properties
- Two Hills Mennonite School, Two Hills, AB, St. Paul Education Regional Division No.1
- Villa Cathay Care Home, Vancouver, BC, Villa Cathay Care Home
- Whispering Ridge Community School, Grande Prairie, AB, Peace Wapiti School Division No. 76
- Willow Park Armoury, Halifax, NS, Department of National Defence Canada
- Windsor Park Library, Winnipeg, MB, The City of Winnipeg
- ZAC 3 - maison en ville (multiple locations), Montréal, QC, Sotramont

## CERTIFIED

- 2300 North Park Drive, Brampton, ON, LaSalle Investment Management
- 533 College, Toronto, ON, Akelius Canada Ltd.
- Allora Condominiums (multiple locations), Ottawa, ON, Urbandale Construction
- ArdoVLM HeadOffice, Dollard-des-Ormeaux, QC, Ardo VLM
- Blackburn (Lois Kemp) Arena Expansion, Gloucester, ON, City of Ottawa
- Brookside Intermediate School, Portugal Cove - St. Philip's, NL, Newfoundland & Labrador English School District
- Bureaux d'ONF / NFB, Montréal, QC, Groupe Montoni
- Centre de distribution Beloeil, Beloeil, QC, Exceldor coopérative
- Centre de données Vantage - QC11 Expansion, Ville St-Laurent, QC, Vantage Data Centers
- CHEP Canada, Mississauga, ON, CHEP Inc
- Écohabitations boréales, Terre et Lumière, Sainte-Adèle, QC, Écohabitations boréales inc.
- Gare fluviale de Saint-Ignace-de-Loyola, Saint-Ignace-de-Loyola, QC, Société des traversiers du Québec
- iPort Caledon Building F, Bolton, ON, Triovest Realty Advisors Inc.
- Jonxion 4 (LL Phase 3 SEC), Brossard, QC, Societe Galion inc.
- Maison Terra (multiple locations), Sainte-Anne-de-Bellevue, QC, Broccolini Construction Inc.
- MBQ Housing - 6 units, Deseronto, ON, Mohawks of the Bay of Quinte
- Minto Longbranch Phase 2 (Blocks 12 to 15), Etobicoke, ON, Minto Communities Canada
- Project Fire, Guelph, ON, Medline Industries, Inc. c/o Nexrock
- Royal Oakville Club (multiple locations), Oakville, ON, Fernbrook Homes Head Office
- SAQ, Centre Charlevoix, La Malbaie, QC, Société des alcools du Québec (SAQ)
- Sélection Gatineau, Gatineau, QC, Groupe Sélection
- Spruce Grove Stony Plain Protective Services Building, Spruce Grove, AB, City of Spruce Grove
- St. Thomas Elgin General Hospital, North Tower, St. Thomas, ON, St. Thomas Elgin General Hospital

## ZERO CARBON BUILDINGS

- Albert Jackson Processing Centre, Scarborough, ON
- Amped Sports Lab, Ottawa, ON, Modern Niagara Group
- Banff Transit Storage Facility, Banff, AB, Town of Banff
- Carrville Community Centre, Library and District Park, Vaughan, ON, City of Vaughan
- Complexe Dompark, Montreal, QC, Gestion immobilière Quo Vadis
- Édifice Jacques-Parizeau, Montreal, QC, Ivanhoé Cambridge
- Endress+Hauser Customer Experience Centre, Burlington, ON, Endress+Hauser Canada Ltd.
- Granville Square, Vancouver, BC, The Cadillac Fairview Corporation Limited
- Le Phénix - Carbone Zéro 2020-2021, Montreal, QC,
- Lemay - Québec, Quebec, QC
- Maison Manuvie, Montreal, QC, Gestion de placements Manuvie
- Okanagan College Health Sciences Center, Kelowna, BC, Okanagan College
- PwC Place, Vancouver, BC, The Cadillac Fairview Corporation Limited
- Pyrrha, Vancouver, BC, Pyrrha
- Royal Centre Zero Carbon Certification, Vancouver, BC, Royal Centre (KREC) Inc.
- Scotia Plaza's 40 King St. West
- The Co-operators, Guelph, ON, 10952893 Canada Inc.
- The Stack, Vancouver, BC, Oxford Properties
- UFA Distribution Centre, Edmonton, AB, Fiera Real Estate
- Waterfront Centre, Vancouver, BC, The Cadillac Fairview Corporation Limited



## THE TEKNION MONTREAL SHOWROOM

Sustainability is embedded in the culture of the family-owned Teknion, empowering everyone from the plant floor through to our executive leadership to contribute to corporate responsibility. Its Montreal Showroom, Teknion's only showroom to achieve both LEEDv4 Platinum, receiving 83 credits, and WELL Platinum represents its latest commitment to its culture of sustainability.

The Showroom achieved all 25 LEED Optimize Energy points, due primarily to the efficiency of the base building heating system and 30% lighting power density reduction. A 100% of the energy use is offset with Greenpower for a 10-year term and commitment to renewable energy.

Site selection is key for interior fit outs; both the building location and the base building itself. This helped significantly with both certifications by providing: • Access to public transportation • Diverse neighbouring community amenities (grocery, restaurants, banks, museums, etc.) including adjacent access to green space. • A robust bicycle storage and showering facility. • Premium MERV 13 filtration- Indoor Air Quality • Storage and collection for recyclables. • Green Cleaning. • The building itself has also achieved LEED Certification. • Premium views to the outdoors- connections to biophilia with river and city views.

Teknion's materials transparency and low-emitting materials for all of its products allowed for innovation. It used the material red list protocols for all the materials used on the project. Specific achievements include:

- Pilot Credit 112: Certified Multi-attribute Product and Materials. With the concentration of BIFMA e3 Level 3 certified products, Teknion was able to demonstrate that it met 31% by cost of the entire project.
- Exemplary Performance- Low Emitting Materials with 100% compliance in two product categories. Teknion products were, of course, one of those categories for product application.
- Exemplary Performance- BPDO, Environmental Product Declarations, containing LCA information and embodied carbon impacts, provided for the maximum number of products (20) – a difficult achievement in a small space.
- Pilot Credit 90: Social Equity within the Project team Option 2, Demonstrating social responsibility on a company level with Teknion's JUST label.
- Bi-annual thermal comfort surveys to ensure employee satisfaction throughout the space.
- All of the products in the former Showroom location were decommissioned to various non-profits and dealer partners in the area. 100% of all existing furniture was diverted from landfill during the move from the prior location. Construction and demolition waste diversion rates completed at 76.44%



### LEED Scorecard - Platinum

Water Efficiency	6 / 12
Energy & Atmosphere	30 / 38
Materials & Resources	9 / 13
Indoor Environmental Quality	9 / 17
Innovation in Operations	6 / 6
Location and Transportation	18 / 18
Integrative Process	1 / 2
Regional Priority Credits	4 / 4
<b>TOTAL</b>	<b>83 / 110</b>







## THE UNIVERSITY OF NEW BRUNSWICK, FACULTY OF KINESIOLOGY

The University of New Brunswick, Faculty of Kinesiology had a grand vision to create a new facility that would wholly embody the philosophy of the science of kinesiology and personify the synthesis between wellness and sustainability. UNB and Architects Four Limited collaborated to create a facility which combines the seven wellness concepts of air, water, nourishment, light, mind, fitness and comfort, while achieving LEED® Gold certification.

As the second phase of the three-part "Healthy Living Village", the facility parallels kinesiology's broad cross-section of interdisciplinary studies and collaborative nature through its imitation of human anatomy. The interior circulation pathways are the backbone and the connective tissues; the Central Core, as vital organs, allows uninterrupted passage of light, air and people throughout; the Grand Stair, similar to a heart, provides vital access to all levels; and the Earth Tubes simulate the building's breath. Combined with generous glazing on all levels, the interior is visually open and inviting with a natural ambience.

On track for WELL Certification, the building is designed with a special emphasis on natural features, transforming healthy learning environments and improving the wellness and well-being of its students, faculty, and staff studying the science of human movement and apply the latest evidence-based research to improve function, health and wellness to people in all settings and populations.

A biophilia plan outlines the way nature is incorporated through environmental elements, lighting, and space layout; as well as the way it incorporates nature's patterns, and opportunities for human-nature interactions. At the project's onset, local Indigenous representatives from traditional Wolastoqey territory blessed the site and the trees harvested for re-use in the building.



The building is situated in a park-like setting on the UNB's downtown Fredericton campus, gently integrated into the hillside between MacKay and Peter Kelly Drives. The steep sloped site provides the unique opportunity for street-side, barrier free entrances at each floor level.

An expansion to MacKay Drive Plaza at the roof level of the building, creates an outdoor space overlooking the building's vegetated roof and extraordinary views of the City and the Saint John (Wolastoq) River. Drought resistant vegetation populates the roof, while the surrounding landscape design incorporates native and adaptive plant species.

Despite being set into the hillside, natural light graces most occupied spaces through large windows, rooftop monitors and borrowed light through interior glazing. Subterranean earth tubes supply naturally tempered fresh air to the mechanical ventilation system. The building also draws in fresh air from the operable windows, and past a 54m<sup>2</sup> living wall, before exhausting out rooftop monitors using stack effect.

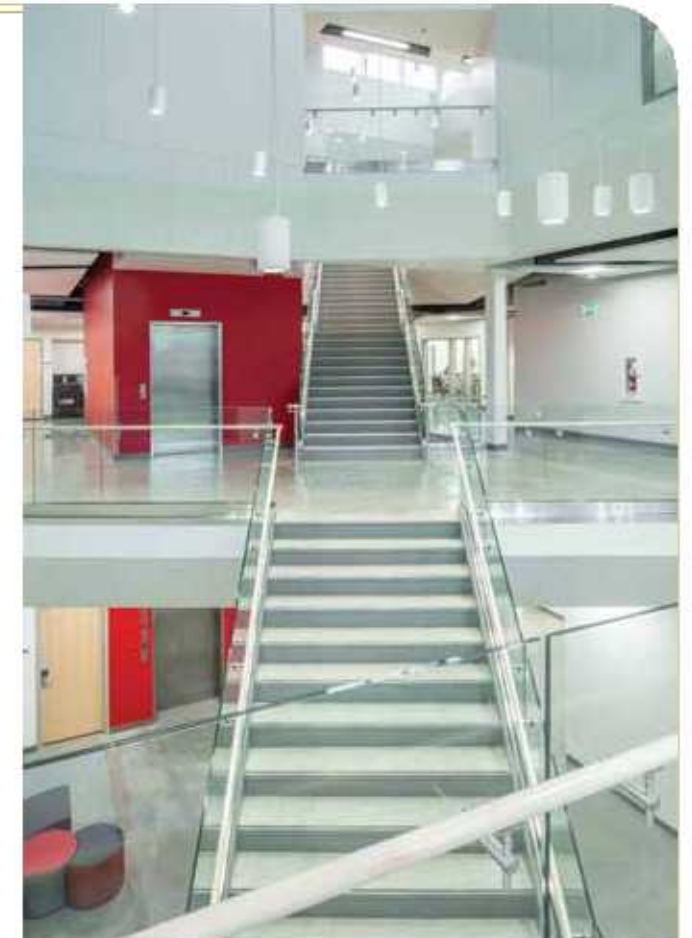
Fossil fuel dependence is reduced by accommodating future photovoltaic integration and utilizing the campus's district energy plant, that's base loaded by locally sourced biomass. Furthermore, alternative modes of transportation are encouraged through the inclusion of solar powered bicycle shelters, electric vehicle charging stations and integration into the campus active transportation plan.

Learning spaces in the 6,275m<sup>2</sup>, three-storey facility include research and teaching laboratories, High Performance Training Centre, teaching kitchen for university and community outreach, student learning commons, classrooms and lecture theatre.

The building educates occupants not only in the classroom, but also with sustainable design strategies on prominent display. On the exterior, Earth Tubes, grade-level access and the vegetated roof are visually significant elements that signal to the building's sustainable aspirations.

On the interior, an electronic dashboard displays the energy usage, rainwater harvesting and wellbeing of the building and its occupants, windows provide visibility into the thermal tank storage room, and resource reduction is encouraged with water filling stations and recycling. These features raise awareness and expectations of building standards and inform occupants of future design potential.

Photos: Julian Parkinson



### LEED Scorecard - Gold

Sustainable Sites	19 / 26
Water Efficiency	10 / 10
Energy & Atmosphere	19 / 35
Materials & Resources	5 / 14
Indoor Environmental Quality	10 / 15
Innovation in Operations	6 / 6
Regional Priority	4 / 4
<b>TOTAL</b>	<b>73 / 110</b>





## Leading the Charge HYDRO OTTAWA CAMPUSES ACHIEVE LEED GOLD CERTIFICATION



Net-zero operations by 2030. That's the goal. It's one we haven't been shy about sharing, and we're excited to highlight the achievement of an important milestone in this journey. In 2022, all three facilities at our new Hydro Ottawa east and south campuses officially received LEED Gold Buildings certification. This means less greenhouse gasses released into the atmosphere, the preservation of natural resources, and significant reductions in waste.

LEED Gold certified buildings weren't an afterthought. From day one, we worked to design and construct our new campuses so that they aligned with our commitment to being part of the solution.

Wherever possible, we constructed our new campuses with recycled content along with regional materials and products to lower transportation emissions. When net new materials were used, certified wood materials were chosen to ensure responsible forest management to limit our impact. Moreover, measures were taken to ensure that the indoor air quality of the new facilities met LEED Standard's stringent requirements during construction and before occupancy.

Reaching our net-zero goal requires forethought. We knew the construction of these new campuses would produce waste. However, through an elevated Construction Waste Management Plan, more than 78 percent of construction and demolition debris was diverted from landfills.



Our buildings are loaded with features and functionality that reduce their impact on the environment, and produce a 40 per cent energy cost-savings compared to Natural Resources Canada's industry standards.

Right up to the roof tops, sustainability was key. 'Cool roofs' use a reflective roofing membrane that reduces the air conditioning needs in our office areas and improves indoor comfort in areas that are not air-conditioned, such as the garages.

Lights in buildings and parking lots are on motion-sensors, only turned on when someone is in the area. This occupancy lighting reduces energy waste and ensures we're only using what we need.

We also make use of reusable resources where we can. Water collected by our rainwater harvesting system is used for flushing toilets and in low-flow fixtures in our Main Office. This repurposing system allows us to achieve more than 50 per cent reduction in municipal water use.

Both campuses are equipped with solar panels which produce power that helps offset our energy consumption by almost 20 per cent at our east campus, and by 100 per cent at our south campus.

Employees who have already made the switch to electric vehicles have access to 17 EV charging spots—with more on the way.

There's also prioritized parking for employees that carpool, and covered bike racks to encourage sustainable, less impactful transportation.

Sustainable design also takes the work environment into consideration. The health and wellbeing of our employees is a top priority at Hydro Ottawa, so our LEED Gold buildings have modern HVAC systems that provide fresh makeup air, workspaces that are flexible and accessible, and floor plan layouts that result in approximately 95 per cent of all workspaces with direct views to the outdoors and plenty of natural light.

Wherever possible, we want to encourage and champion efforts to support a greener future. For more than a century, we've provided our customers with clean, safe, and reliable power, and we'll continue to do so through innovative technologies and sustainable practices to reinforce our position as a leader in the future of smart energy.

Energizing our communities to protect the environment in sustainable ways is something we're passionate about. Our moonshot of becoming the first municipally-owned Canadian utility to reach net-zero operations by 2030 may be bold, but bold is where change happens. Bold is how progress is made. Bold is what we aim for.





## CO-OPERATORS EARNS ZERO CARBON CERTIFICATION FOR CORPORATE HEADQUARTERS



1

1. Co-operators new corporate headquarters at 101 Cooper Drive in Guelph, ON.
2. Natural light is a key feature of the wellness and sustainability properties of the building.
3. Stunning atrium includes areas for drop-in socializing or working amidst live trees, and can be fully converted to host a large townhall.

### Guelph head office will embody the future of sustainable, climate-conscious building design in Canada

With construction well underway, Co-operators new head office in Guelph, ON has earned Zero Carbon Building – Design Standard certification from the Canada Green Building Council (CAGBC).

When it opens in the summer of 2024, the 226,000 sq. ft facility at 101 Cooper Drive in Guelph will feature an all-electric design that will eliminate direct carbon emissions from any onsite source, meaning no retrofits or decarbonization plan will be required as the organization progresses toward its net zero targets. The building will be highly energy-efficient and minimize indirect annual carbon emissions from electricity, offsetting any remaining emissions through high-quality carbon offsets or carbon-free renewable energy. In addition, 'embodied carbon' emissions resulting from construction, manufacturing, transportation and disposal of all building materials are also meaningfully reduced or offset.

According to the Canada Green Building Council, the building sector is Canada's third-largest emitter. Today, residential, commercial, and institutional buildings contribute 17% of Canada's greenhouse gas (CGC) emissions and once building materials and construction are included, this level approaches 30%.

"Achieving the Zero Carbon Building – Design Standard certification for our national headquarters is a strong reflection of our values and vision to catalyze sustainability in our society," said Shawn Fitzgerald, vice-president of real estate and workplace services at Co-operators. "This building is a compelling demonstration of the imagination and innovation that will be required as we build for a more sustainable future in Canada. We have an important role to play in mitigating the risks of climate change in a direct and meaningful way, helping move Canada and the world towards a net zero emissions future."

"With this certification, Co-operators joins a growing list of forward-thinking organizations investing in the future through zero carbon buildings," said Thomas Mueller, President and CEO of the Canada Green Building Council. "Our made-in-Canada and globally recognized Zero Carbon Building standards provide tangible ways for organizations like Co-operators to realize their sustainability targets. Paired with LEED and WELL, the Co-operators headquarters promises to be a marquee green building offering enduring value and resiliency for the company and a healthy and productive place to work for employees."



2

4. Third floor bridge featuring a wooden structure inspired by a local Guelph landmark.
5. Second-floor landing features comfortable lounge furniture, live-edge harvest tables and a living wall.

### Features of Co-operators new building include:

- 40% greater energy and greenhouse gas savings beyond the Ontario Building Code's all-electric baseline
- 60% heating load reduction beyond the code-minimum for new office builds
- 282 kW rooftop solar array will generate approximately 9% of the total annual building energy consumption
- Automatic tinting windows will eliminate glare and reduce energy consumption
- Highly insulated and airtight building will conserve energy
- High-efficiency water source technology will recover and redistribute heat throughout the building
- LED lighting equipped with occupancy and daylight harvesting sensors only turn on when needed.

In addition to Zero Carbon Building – Design Standard certification, the building is also targeting LEED Gold and WELL Platinum certifications.



3



4



5





# YORK MAJOR MEDICAL CENTRE

York Major Medical Centre is a 50,000 ft<sup>2</sup> high-performance green building that is also a leader in creating a healthy indoor environment for medical practices. The medical office is in the heart of the rapidly growing City of Vaughan, just north of Major Mackenzie Dr., within walking distance of stores, restaurants, businesses, public transportation and high-rise condominiums. Occupants of the building also have neighboring views of a majestic Eagles Nest Golf Club. York Major Holdings, the Owner of this project, set an early goal of developing a building that incorporated sustainable design practices in all aspects with the intent of creating a space that was healthy, highly efficient and that provided cost-savings.

## INTEGRATION WITH SITE

The site was selected based on its dense surroundings, providing options for alternative transportation and connection with amenities for occupants, without impacting the land it would be built on.

## Project Team

- Developer/Owner:** York Major Holdings
- Construction Manager:** Metrus Construction Limited.
- LEED Consultant:** INVIRO Engineered Systems Ltd.
- Architect:** Baldassarra Architects Inc.
- Structural Engineer:** Peter Betka & Associates Ltd.
- Mechanical Engineer:** INVIRO Engineered Systems Ltd.
- Electrical Engineer:** Manual Jordao & Associates Ltd.
- Energy Modeller:** INVIRO Engineered Systems Ltd.
- Environmental Consultant:** Stantec Consulting Ltd.



## LEED Scorecard - Gold

Sustainable Sites	7/11
Water Efficiency	5/11
Energy & Atmosphere	16/33
Materials & Resources	9 / 14
Indoor Environmental Quality	6/10
Innovation in Operations	6 / 6
Regional Priority	3 / 4
Location & transportation	15/20
Integrative process credits	0/1
<b>TOTAL</b>	<b>67 / 110</b>

Electric vehicle charging stations are provided and located outside of the building to encourage alternative means of transportation. In addition, the well thought out lighting design for the building's exterior reduces the effects of light pollution by limiting the amount of light that trespasses beyond the property. To help restore habitat, the project donated 49 acres of nearby woodlot lands to local conservation authorities.

## WATER

Plumbing fixtures and fittings selected reduce indoor potable water use by over 30%, which is an approximate savings of 743,800 L of water per year. Outdoor water savings of over 60% were achieved by selecting plant species based on their drought tolerance, hardiness and disease resistance requiring minimal maintenance requirements. Through a holistic lens of rainwater management, onsite rainwater runoff was reduced by replicating the site's natural hydrology, supporting key regional features such as wetlands, headwater streams and groundwater aquifers. In addition, makeup water used for the cooling tower is conserved with makeup water meters, conductivity controls and overflow alarms.

## MATERIALS

Selecting low-carbon materials was a priority in the early design phases. Precast concrete hollow core slabs with recycled content were incorporated into the design to reduce raw material consumption and maintain durability. By performing a Building Life Cycle Analysis (LCA), the team was able to assess the environmental impacts of specific materials and products from extraction through manufacture, use, replace or repair to disposal and recycling, and demonstrate an overall embodied carbon reduction of 20%.

## ENERGY

The project reduced its energy consumption by over 15% with an optimized design through a high-performance building envelope paired with efficient mechanical and electrical systems, including a hydronic system that provides heating and cooling, an energy recovery ventilator with demand-controlled ventilation that delivers fresh air and efficient LED lighting with daylighting controls. The systems are monitored by a building automation system, fully automating the lighting levels and HVAC delivery specifically to coincide with tenant hours of operation that will adjust to seasonal changes in sunlight and temperature.

## INDOOR AIR QUALITY

As a high priority for a medical centre, all finishes were selected based on their low-emitting/non-emitting criteria for volatile organic compounds (VOCs). Additionally, the ventilation system was designed to maximize fresh air intake while using high-efficiency filtration media to reduce indoor pollutants and particles.







## MAISON MANUVIE

Maison Manuvie presents a prominent architectural signature in the heart of Montreal's business district. The 27-storey building is easily accessible by various modes of transport and advocates for the densification of the city centre.

The location of the AAA-class building is a key part of its success with a direct connection to the metro and a bike path out front on Boulevard Maisonneuve. Built between 2015 and 2017, Maison Manuvie was a joint venture between Manulife and Ivanhoé Cambridge. From the outset, both companies wanted the property to be a landmark distinct from all other properties.

Selection of the design and equipment favoured the latest advances in energy efficiency, including components such as heat recovery chillers. The design and construction team investigated LEED certification early on and collaborated to achieve LEED Gold certification for new construction in 2018.



Sustainable solutions focused on natural light, comfort and energy saving. An ambitious program and 'no expense spared' attitude was followed to meet stringent energy efficiency requirements. Taking advantage of the fact that it was new construction, the team included everything that had been planned such as:

- double glass envelope for better thermal performance
- artificial lighting from LED light sources
- a white roof to eliminate the heat island effect
- abundant natural light
- a hundred-space bicycle parking lot with changing rooms equipped with showers for cyclists

Moreover, Maison Manuvie has unparalleled connectivity which has earned it the first WiredScore Platinum certification in Quebec, as a building with the most reliable and secure Internet connection.

The building automation and control system with nearly 30,000 control points, along with the recovery of the energy generated by heating and air conditioning, ensures better comfort for occupants. The elevators are equipped with an improved destination management system that maximizes speed of service and considers the desired destination floors. Sanitary fixtures and low-flow faucets ensure minimal water consumption in restrooms and kitchens throughout the building.



Maison Manuvie is committed to maintaining exemplary and innovative environmental management which includes the willingness to transition towards more sustainable modes of energy. With that commitment in mind, Maison Manuvie has undertaken to use renewable natural gas (RNG) and to reducing its GHG emissions by 25% between 2019 and 2020. In 2021, it received the Net Zero Carbon certification; this was possible with the purchase of renewable gas and carbon offset credits.

Finally, artificial intelligence technologies are also in place to optimize building operations, such as the Coppertree technology which identifies potential modifications to the building automation system for the operators to analyze and implement, if applicable. Furthermore, the team at Maison Manuvie is in the process of conforming to ISO 50001, a standard for energy management systems, making it one of the few properties in Canada to receive this certification.

Other certifications and awards include BOMA Best Platinum, LEED E-BOM Platinum and BOMA Quebec's 2021-22 Building of the Year (TOBY) award.







Green building certifications greatly benefit our business because they:

- Protect the value of our assets in the face of changing regulatory, market and customer demand.
- Offer globally recognized symbols of sustainability and leadership—top performance against key environmental and social indicators.
- Signal our buildings save money via improved resource efficiency, produce lower carbon emissions and ultimately, create healthier places for people.



#### LEED Scorecard - Gold

Sustainable Sites	0 / 4
Water Efficiency	6 / 15
Energy & Atmosphere	26 / 35
Materials & Resources	5 / 9
Indoor Environmental Quality	14 / 22
Innovation in Operations	0 / 1
Location and transportation	10 / 14
<b>TOTAL</b>	<b>61 / 100</b>

*Yorkdale*

## YORKDALE SHOPPING CENTRE

Yorkdale Shopping Centre (Yorkdale) is Canada's ultimate retail destination, highest-performing shopping centre, and a beacon of sustainability in the retail space. Yorkdale achieved LEED Gold certification under the Existing Buildings 4.1 rating system. The first enclosed retail shopping centre over 1M sq ft.

Over the past decade, the mall has continued to set the pace as it pertains to sustainability and occupant comfort through various initiatives such as LED retrofits, solar photovoltaic (PV) installations and rainwater harvesting projects. All these and more equate to almost 850,000 kWh of diverted energy on an annual basis.

Covering almost 2,000,000 gross square feet in retail space, Yorkdale shopping center consists of over 270 stores and services, including the largest collection of luxury brands in the country. The shopping centre attracts over 18 million visitors per year and is also one of North York's largest employers. Yorkdale is co-owned by Alberta Investment Management Corporation and Ontario Municipal Employee's Retirement System, through its subsidiary Oxford Properties Group (Oxford), and is managed by Oxford, a leader in the North American commercial real estate industry.







## 40 KING ST W

Scotia Plaza's 40 King St. W. is the largest Zero Carbon Certified Building in Canada, and the first to certify under Zero Carbon Building – Performance v2 Standard. 40 King St. W. is also recognized as one of the first major office towers in Canada to achieve LEED Platinum certification.

As an all-electric building, it features 68 storeys of above-grade AAA Class commercial office, and below grade, one level of retail and four levels of parking, with over 36 electric vehicle chargers. The building is a concrete frame, clad with distinctive granite claddings and punched window openings with double-glazed, aluminum-framed windows that make the building stand out in the Toronto skyline.

Thanks to the building's original design, reliance on limited combustion-based systems, and diligent ongoing performance monitoring, this 68-storey building had a total carbon footprint of only 1,418 metric tonnes of carbon dioxide (CO<sub>2</sub>) equivalent. A carbon emissions intensity of 0.71 kgCO<sub>2</sub>e/sf, which gets offset through carbon credits purchased from Gold Standard as part of its ZCB-Performance certification.

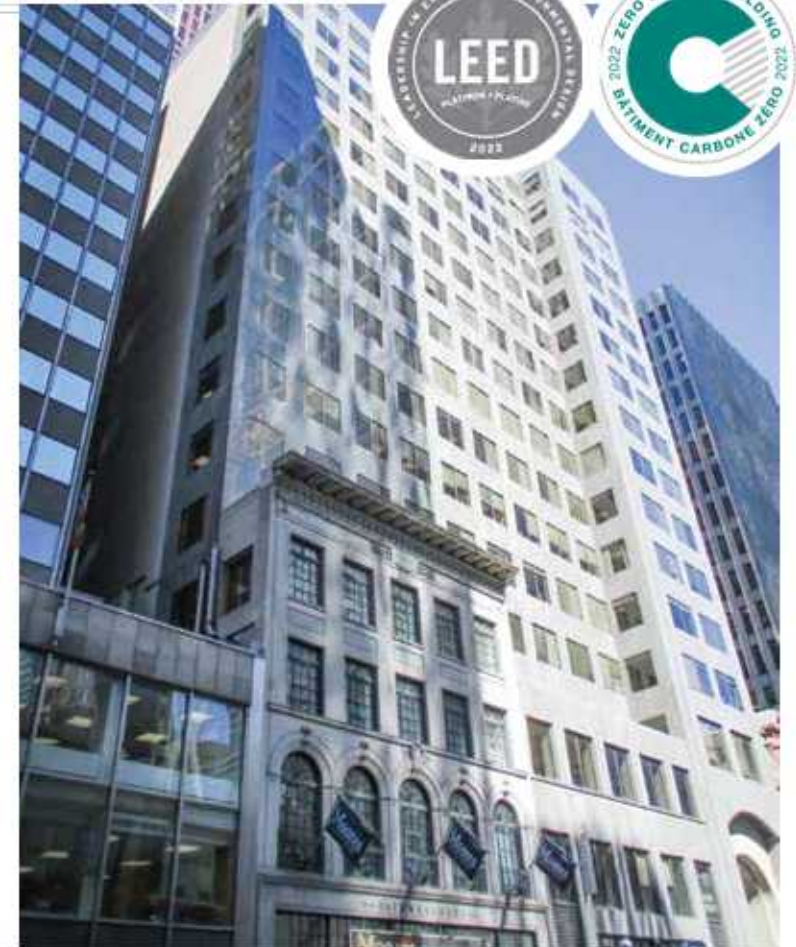


## 100 YONGE

Scotia Plaza's 100 Yonge Street in downtown Toronto is the most recent building in KingSett's portfolio to achieve the Zero Carbon Building - Performance Standard. This marks a major milestone in KingSett Capital's Three-Phase Decarbonization Strategy as we work towards our decarbonization goal of 35% of carbon emissions across our CREIF portfolio by 2027.

100 Yonge is a Class "A" office building with 250k sf of space and is the second building in our portfolio after 40 King Street W. to receive this certification. 100 Yonge has also achieved LEED Gold certified under the Operations and Maintenance pathway.

KingSett's Decarbonization Strategy has included replacing end-of-life boilers and chillers, upgrading air handlers with heat recovery, and installing air source heat pumps to replace the existing heating plant.



Thanks to these efforts, 100 Yonge will eliminate 549 tonnes of carbon emissions annually – a 76% reduction – equivalent to removing 118 passenger vehicles from the road.

These results far exceed the Carbon Risk Real Estate Monitor (CRREM) guidelines for Canadian office building emissions by 2050, which are aligned with the Paris Climate Agreement and Science Based Targets Initiative (SBTi).

*"The transition to a net-zero carbon future requires thoughtful long-term planning. We are making investments today that will have a positive impact on climate change now, and in the future, such as pursuing the Zero Carbon Building Standard."*

- Bill Logar, Chief Asset Management Officer, KingSett Capital







## ALBERT JACKSON PROCESSING CENTRE TORONTO, ON



Member Canada  
Green Building Council

Canada Post's new Albert Jackson Processing Centre in northeast Toronto is the company's largest and greenest parcel sorting facility. Covering 585,000 square feet, or roughly the size of six Canadian football fields, this leading-edge, zero-carbon building is a critical hub for our entire national network. It will help us improve service, reduce our environmental footprint and meet the evolving needs of Canadians.

This state-of-the-art facility, which became operational in spring 2023, is our first zero-carbon building and also the largest industrial project in Canada with the Zero Carbon Building - Design Standard certification. Approximately 2,800 rooftop solar panels generate clean, renewable energy onsite. There are 10 electric vehicle charging stations for employees, with infrastructure to support the future electrification of our five-ton fleet. The facility's highly efficient HVAC system uses refrigerant with low global warming potential, and there's sensor-controlled lighting that dims based on occupancy and daylight.

Sustainability was also a key consideration during construction – we diverted more than 90 per cent of the waste generated away from landfills.

The Albert Jackson Processing Centre is built to handle the continued growth in parcels and online shopping over the next decade and beyond. It will be able to process more than one million packages a day at full capacity – that's over 60,000 packages per hour.

As one of Canada's largest companies – with a presence in communities from coast to coast to coast – Canada Post is committed to delivering more for the greener good. We are investing \$1 billion to green our buildings and electrify our fleet on our journey to net-zero emissions by 2050.

While the Albert Jackson Processing Centre will help transform Canada Post for the future, its name pays respect to the past – and reflects a strong commitment to equity and inclusion. Regarded as a civil rights hero, Albert Jackson is also considered to be the first Black letter carrier in Canada. His remarkable story is an important part of our company's history and we're proud to honour him.

The facility is located on the traditional territory of many nations, including the Mississaugas of the Credit, the Anishnabeg, the Chippewa, the Haudenosaunee, and the Wendat peoples. We honour their legacy and the legacy of all Indigenous Peoples.

[canadapost.ca/greengood](https://canadapost.ca/greengood)



## KINGSTON FIRE MAINTENANCE GARAGE

### The City of Kingston's first emergency service building designed to Net-Zero Energy

The City of Kingston have set an ambitious goal to design and construct all new municipal buildings to Net-Zero Energy standards. The Kingston Fire Maintenance Garage, designed by CSV Architects, is the City of Kingston's first municipal building that produces as much energy as it consumes. CSV Architects was selected to design the new facility due to their experience with emergency service buildings and expertise in high performance buildings.

Located in Kingston's Fire Training Complex, the building acts as the fleet maintenance garage for Kingston Fire & Rescue. The facility contains three drive through truck bays capable of housing six full-size vehicles and a crew area for the maintenance staff.

The vision for the project was to design a new building that could act as a model for the construction of future municipal buildings in Kingston. Utilizing a lower cost, pre-engineered structure and simple building systems allowed savings in capital cost to be redirected to the installation of on-site renewable energy.

### CSV ARCHITECTS

sustainable design - conception écologique

The target was to design a building that would generate its electrical needs within its own 730 m<sup>2</sup> footprint, allowing the building to act as a template that could be replicated on other properties with rooftop solar panels. The building's leading-edge design employs solutions to reduce energy consumption while minimizing additional cost and complexity.

To meet the Net Zero Energy targets, part of the savings on the capital cost were directed toward the installation of a Solar Field. Preliminary data indicates the Solar Field produces 102% of the energy projected to be used, according to the energy model.

The solar array will have a useful operating life of over 30 years and is expected to pay itself off with the reduction in utility bills after 15 years. The surface area of the array is only 666m<sup>2</sup> fitting within the building footprint and exceeding the project objective. The result was a successful prototype for future sustainable development in the City of Kingston.

