



### Services Provided:

- Sustainability/LEED Consulting
- Energy Third Party Review

### Fast Facts:

**Project Type:** Municipal  
**Size:** 3,306 m<sup>2</sup> (35,573 ft<sup>2</sup>)  
**Certification:** LEED® Silver Certified  
**Construction Cost:** \$7.8 million  
**Project Span:** 2014 - 2018

### Notable Achievements:

- |                          |     |
|--------------------------|-----|
| <b>Energy Savings:</b>   | 33% |
| <b>Water Savings:</b>    | 37% |
| <b>Recycled Content:</b> | 21% |
| <b>Regional Content:</b> | 33% |
| <b>Waste Diversion:</b>  | 78% |



### Vaughan Civic Centre Resource Library

Vaughan, Ontario

The Civic Centre Resource Library (CCRL) received LEED Silver certification in June 2018. The 3,306-square-metre building was designed to promote literacy, community outreach and environmental stewardship through its expansive views, open space design and interior courtyard. The library is home to more than 70,000 books and provides services to 20,000 residents every month by offering amenities such as a study hall, reading lounge, computer lab, children's area, creative suite and an upper reading patio with access to natural lighting.

The CCRL was constructed with a high albedo roofing system and efficient LED and motion sensor lighting that helps conserve energy when rooms are unoccupied. It features mechanical and electrical systems that control ventilation and variable speed fans to ensure efficient operation; and high-performance glazing that reduces solar heat gain and glare. These energy efficient measures, among others, are projected to reduce energy consumption by 33 per cent.

Water is conserved through low-flow plumbing fixtures that reduce the amount of potable water consumed by 37 per cent, in addition to drought-tolerant landscaping and native plants that require little to no water. The building's waste reduction efforts include refillable water stations and the adoption of recycling services.

This successful project promotes active and sustainable transportation by offering bike racks, two electric vehicle charging stations and easy access to public transit, including York Region Transit, TTC bus routes and Maple Go station.

A comprehensive education outreach program was developed that includes a guided tour of the building which identifies key design features that improve the overall environmental impact of the project. The building is also included on the City of Vaughan's Green Buildings website

The project included a wide variety of energy efficiency technologies, including:

- HVAC systems that incorporate VAV distribution, demand controlled ventilation and variable speed fans.
- Well insulated building envelope including high performance windows.
- An energy efficient lighting design utilizing fluorescent lighting combined with daylight and occupancy sensors.

### Owner Contact:

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