

Southbrook Vineyards wine now has a touch of Gold



PHOTO CREDIT ENERMODAL ENGINEERING

Southbrook Vineyards, a certified organic winery in Niagara-on-the-Lake, recently achieved LEED (Leadership in Energy and Environmental Design) Gold certification, becoming the first building in Niagara Region to do so.

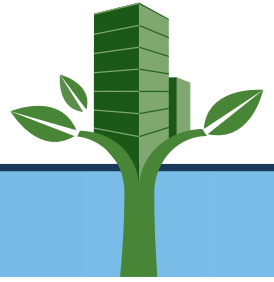
“Southbrook is an example of how an organization can take its commitment to sustainability to the next level by creating a building that minimizes its environmental impact” says Braden Kurczak, the LEED consultant on the project from Enermodal Engineering. “The design team’s commitment to going green really shows in this striking building that also uses energy and water very efficiently.” Southbrook’s goal was to engage both “mouths and minds” with an experience keyed to all the senses, and to the intellect. The winery’s sensory centerpiece in Niagara-on-the-Lake is a Jack Diamond-designed pavilion that reflects Southbrook’s focus on innovation, classic truths, and environmental stewardship.

The visitor centre is not only strikingly beautiful, but also very green, attaining a LEED Gold designation through energy and water conservation, exceptional indoor air quality, and careful material selection. This one-storey, 853 m² hospitality centre includes a wine tasting room, retail sales, catering, and office spaces. The accolades and awards have begun to pour in, beginning with the Award of Excellence for Architectural Design and an Award of Merit for Green Buildings from the Canadian Institute for Steel Construction.

Energy and water conservation is the cornerstone of reducing the environmental impacts of building. Southbrook Vineyards will achieve a projected 42% water savings. Southbrook Winery achieves a commendable 50% reduction in energy costs compared with conventional practice through the application of “classic truth” in building engineering. Energy-saving features include the following:

- well-insulated walls and roof
- high performance curtainwall (window) system
- high-efficiency mechanical equipment (boiler and chiller)
- variable speed drives on the ventilation system

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- ventilation system controlled by CO₂ sensors (more people in a room, more ventilation provided)
- an energy-efficient lighting plan including occupancy sensors

Energy savings promised by good design are often lost through sub-optimal installation and operation. Southbrook's comprehensive building commissioning program ensures that all mechanical equipment is selected, installed, and operating as intended by the design team.

LEED is the most recognized and prestigious green building rating system in North America. LEED Canada is administered by the CaGBC, which uses the rating system to designate buildings—Certified, Silver, Gold, and Platinum – according to the green features they incorporate.

Enermodal Engineering is Canada's largest consulting firm exclusively committed to creating buildings and communities that are energy and resource efficient. With a professional staff work in Kitchener, Calgary, Denver, and Toronto, Enermodal is working on over 180 buildings pursuing LEED across North America and is responsible for over 30% of LEED certified buildings in Canada.