

Sustainable Buildings



Morrison Hershfield is a North American leader in sustainability for the built environment. We understand the complexity of the new generation of sustainable buildings. High performance green buildings are achieved as we strive for more efficient designs and simplified building systems. Our experts are mindful of a broader range of possibilities and impacts while assessing synergistic trade-offs.

We bundle the following list of sought after sustainability buildings services to help clients achieve high performing green buildings. Clients are offered higher quality and better integrated solutions, as well as a single source contact for ease of sub-consultant management. Our specialists are all in-house, thereby removing the geographical and social barriers that exist when design teams work with multiple firms. We are an inherently integrated engineering firm.

Expert LEED® Facilitation

We understand better than most the intents and flexibilities that exist within LEED.

Energy Modeling and Simulation

Accurate simulation models assist with making informed decisions on energy saving design strategies to create an optimized whole-building design solution.

Building Commissioning Authority

Commissioning the whole building is extremely valuable. It offers a method by which all building systems can be reviewed, tested and properly transitioned to the building operator.

Envelope and Materials Durability Analysis

We understand how to provide a functional and durable building envelope while balancing the risks associated with emerging building technologies.

Code and Life Safety

Our expert Building Code Consultants provide valuable code interpretations that consider the use of emerging technologies in green buildings.

Emerging Specialties

- alternative energy design
- greenhouse gas (GHG) emissions reduction
- materials life cycle assessment
- materials life cycle assessment
- natural light simulation
- carbon footprinting, carbon verification





Hotel Indigo

Hotel Indigo in Athens GA sets a new standard. It is the tenth hotel worldwide and the first in the 4,500-building Intercontinental Hotel Group to receive Gold Certification from the United States Green Building Council. The building is aligned on an east-west axis for maximum sun exposure. It is 21% more energy efficient and 23% less expensive to operate than a standard hotel. We served as the sole building envelope design consultant, adding many pivotal features to ensure desired efficiency levels. Exterior cladding includes fiber cement panel and cultured stone. Air leakage is controlled through an air barrier system. Wall assemblies include a fluid applied air and weather barrier system combined with icynene spray foam installation to ensure maximum insulation.



Centennial Garage

This state-of-the-art Edmonton AB facility houses all necessary activities for the operation and maintenance of a fleet of 250 transit buses. The massive single-storey building (over 7 acres in size) is designed to achieve a strong LEED Silver Certification. As prime consultant, we managed a large multidisciplinary team. Some of the special features include an energy efficient building envelope design to minimize thermal loss and the use of alternative power sources such as a solar wall to preheat make-up air. Innovative HVAC systems reduce energy consumption and maximize indoor air quality in a very demanding diesel bus facility. The project was delivered on time and within budget.



Vancouver Convention Center

A 1.1 million sq ft expansion built over land and water on some 1,000 piles triples the capacity of the existing building. Awarded LEED Platinum Certification, the expansion features floor-to-ceiling glass throughout, as well as a glass-walled connector to the existing facility. Because of our significant role in the development and testing of the glazing system, we were in a position to evaluate the benefits and risks and define methods of controlling the risks. We were a key partner to ensuring quality assurance and conducting enhanced field review during the construction of all building envelope components including curtain wall glazing and the six-acre green roof, one of the largest of its kind in the world.