



Climate Change **Solutions**



BUILDING SYSTEM TECHNOLOGIES

Canada 

Canada is home to a dynamic and world-class environment industry. A key component of this industry is a well-established group of resourceful companies that offer climate change solutions – “services and technologies that enhance competitiveness, increase productivity and reduce environmental impacts, while at the same time prevent, reduce, mitigate or sequester greenhouse gas (GHG) emissions”. In essence, Canadian ingenuity represents additional value to customers.

- Advanced Building Materials, Envelope Design & Construction
- Efficient HVAC (Heating, Ventilation & Air-Conditioning) Systems
- Energy Service Contractors
- Heat Recovery Systems
- Biomass Energy Systems
- Energy Efficient Office Equipment, Motors & Lighting
- Energy Load Management & Technology Systems
- Passive and Active Solar Heating
- Ground-Source Heat Pumps
- Pre-manufactured energy-efficient houses

Canada’s geographic location and cold climate created substantial demand in the 70s and 80s for cost-effective solutions that improve the energy and resource efficiency of residential, commercial, institutional and industrial buildings. The response from resourceful Canadian companies was the development of an industry that continues to develop and provide pioneering technologies and services that have proven very effective at reducing energy consumption in building operations.

Innovative Canadian companies bring together a wealth of knowledge and expertise across multiple disciplines – e.g. engineering, architecture, HVAC systems, energy management, financing and alternative energy, to name a few – to create integrated and site-specific solutions that not only reduce costs, but also improve air quality, enhance comfort and lower greenhouse gas emissions.

Canadian companies have strong expertise across all aspects of building design, construction, operation, load management and retrofit. A few examples of outstanding Canadian innovation and services used to minimize heat loss, reduce electricity consumption and enhance performance include highly efficient electric variable speed motors, office equipment, appliances and lighting (e.g. Light Emitting Diodes- LED), advances in building materials and window design, innovative energy management systems that use computerized optimization controls to manage various building devices and functions, and alternative energy systems that provide electrical power, and water and space heating.

Canada even exports entire pre-manufactured house packages to meet the growing demand for proven, energy-efficient housing solutions in foreign markets.

For more information:

**WWW.
cleanenergy.gc.ca**