

CLEAN

Technology

**INDUSTRY-LEADING
CLEAN ENERGY AND
CLIMATE SOLUTIONS**

CANADA 
BUSINESS EVENTS



CANADA IN FOCUS

36.7
MILLION
TOTAL POPULATION

18.4
MILLION
TOTAL WORKFORCE

1.3
MILLION
BUSINESSES

\$2.14
TRILLION
TOTAL GDP

SOURCE: STATISTICS CANADA



**CANADA RANKS
1ST IN THE G7 FOR**

Democracy
(THE ECONOMIST
INTELLIGENCE UNIT)

Economic Freedom
(THE HERITAGE FOUNDATION)

Social Progress
(THE SOCIAL PROGRESS
IMPERATIVE)

Overall Reputation
(REPUTATION INSTITUTE)

Quality of Life
(OECD)



Canada offers businesses the **MOST EDUCATED** talent pool among OECD countries



Total business tax costs in Canada are **48% LOWER** than those in the US OECD countries

DISCOVER CANADA FOR BUSINESS EVENTS

“Canada is one of the safest, affordable and most welcoming destinations. When you convene in Canada for meetings and conventions you’ll be connected with the innovators who are shaping the future, the thought leaders who are leading the way and the business and research architects who elevate Canada’s position on the world stage across a spectrum of industries. Research tells us meeting in Canada makes delegate engagement soar; connecting with Business Events Canada is the first step to your best conference ever.”

— Chantal Sturk-Nadeau, Executive Director, Global Business Events Canada

Business Events Canada is a division of Destination Canada, our national tourism marketing agency charged with growing Canada’s share of international business events.

“Canada is an alluring destination for global meetings and business events. By showcasing our industry expertise, we provide meeting planners and decision makers with important context to make their case for meeting in Canada, and fresh content to augment their agenda that is only available here. When you couple that with the unique conference locations and experiences Canada is known for, it’s a win for everyone.”

— Virginie De Visscher, Director of Business Development Economic Sectors, Business Events Canada

CANADA’S CLUSTER EXPERTISE



Canada’s **Agricultural Clean Technology Program** is investing **\$25 million** to support the research, development and adoption of clean technologies of precision agriculture and agri-based bioproducts. Goals include:

- Reduce greenhouse gas emissions
- Generate positive impacts
- Promote sustainable and clean growth



Écotech Québec is the first organization of its kind in Canada, bringing together key clean tech decision makers including:

- Innovative companies
- Centres for R&D or technological transfer
- Large end-user companies
- The financial sector
- Training and professional development
- Trade unions
- Clean tech industrial associations and organizations

BUSINESS EVENTS DRIVE ECONOMIES AND INNOVATION

Business Events Canada is focused on attracting conferences and business events from across the key economic sectors in which Canada excels. With some **\$1.5 billion** spent annually in research and development and **\$13.3 billion in revenue**, clean tech is a key driver of Canada’s economy, and **one of the country’s top priority economic sectors.**



By focusing on the whole ecosystem, aligning Canada’s key economic drivers, academia, vibrant destinations and conference infrastructure, Business Events Canada creates a recipe for innovative, authentic and engaging conferences and events.



Global clean tech conferences bring together diverse, creative and commercial interests across industries and have the power to transform communities with their subsequent legacy impacts, also known as “beyond tourism benefits.” Business Events Canada’s priority sector strategy is a long-range economic development strategy with far-reaching benefits that will last long after each conference has concluded.

CLEAN TECH IMPROVES ENVIRONMENTAL IMPACT FOR A SUSTAINABLE FUTURE



The roots of innovations made in the development of leading Canadian technologies (think fibre optic and wireless networks, computer sciences and natural resources exploration) remain firmly planted in Canada, providing the foundation for the advancements taking place across Canada’s clean tech sector.



Canada is a big country. Our impact on the environment doesn’t have to be. Collaboration between government, universities and industries fuels **Canada’s 4th place ranking on the Global Cleantech Innovation Index**, where it has a firm hold in the Global Clean Tech 100 list for work being done to reduce carbon, diminish waste, mitigate use of materials and to significantly scale back energy consumption.

The world’s most influential and innovative disruptors regularly meet in Canada to redefine the future of wind, solar and natural gas energy, clean water, green construction and waste reduction through technological advancements. **Easy to access from around the globe**, with a blend of international cultures, urban centres at the edge of the wilderness and industry leadership driving environmental protection through clean technologies, **Canada is a natural catalyst for connection and collaboration, and an eco-friendly place to convene.**

LEARN MORE > businesseventscanada.ca

Sir Adam Beck No. 1
Generating Station
Niagara Falls, Ontario

CANADA'S CLEAN TECHNOLOGY CENTRES



- TORONTO**
- Bioproducts
 - Green Building Technologies
 - Electric Vehicles and Green Transportation
 - Renewable Energy
 - Smart Grid Applications
 - Water and Wastewater Management Technologies

- OTTAWA**
- Bio-Refinery Products
 - Energy Efficiency/Green Building Technologies
 - Energy Infrastructure/Smart Grid Applications
 - Recycling, Recovery and Remediation
 - Water and Wastewater Management Technologies

- MONTRÉAL**
- Contaminated Soil and Groundwater Treatment/Remediation
 - Effluent Measurement and Control Technologies
 - Energy Efficiency
 - Green Chemistry
 - Lifecycle Assessment
 - Sustainable Mobility
 - Technologies For Reducing Greenhouse Gas Emissions
 - Treatment of Ambient Air and Atmospheric Emissions
 - Water and Wastewater Management Technologies

- VANCOUVER**
- Fuel Cells
 - Fusion Power
 - Green Building Technologies
 - Green Infrastructure
 - Green Transportation
 - Hydrogen
 - Land and Water Remediation
 - Recycling and Water Management
 - Smart Cities
 - Water Management Technologies

- CALGARY**
- Digitalization in the Energy Sector
 - Emissions Control
 - Industrial Internet of Things
 - Prevention of Land/Biodiversity Impact
 - Smart Grid Applications
 - Water and Wastewater Management Technologies

NEWFOUNDLAND AND LABRADOR

QUEBEC

THE MARITIMES
 PRINCE EDWARD ISLAND
 NOVA SCOTIA
 NEW BRUNSWICK

CLEAN TECHNOLOGY

CLIMATE SOLUTIONS AND CLEAN GROWTH

Canada is an international leader in providing clean energy, R&D and climate solutions, and in demonstrating and adopting clean technologies. The Canadian government recently pledged to invest more than \$2.3 billion toward clean tech financing, R&D, job creation, enhanced collaboration and implementation.

\$13.3
BILLION

ANNUAL REVENUE (2015)

850

COMPANIES

55,000

EMPLOYED

SOURCE: ANALYTICA ADVISORS, 2017



CANADA IS RANKED 4TH OVERALL

in the Global Cleantech Innovation Index

SOURCE: CLEANTECH GROUP, GLOBAL CLEANTECH INNOVATION INDEX (GCI), 2017



CANADIAN RESEARCHERS CONTRIBUTE 3.1%

of global clean technology research publications

SUCCESS STORIES

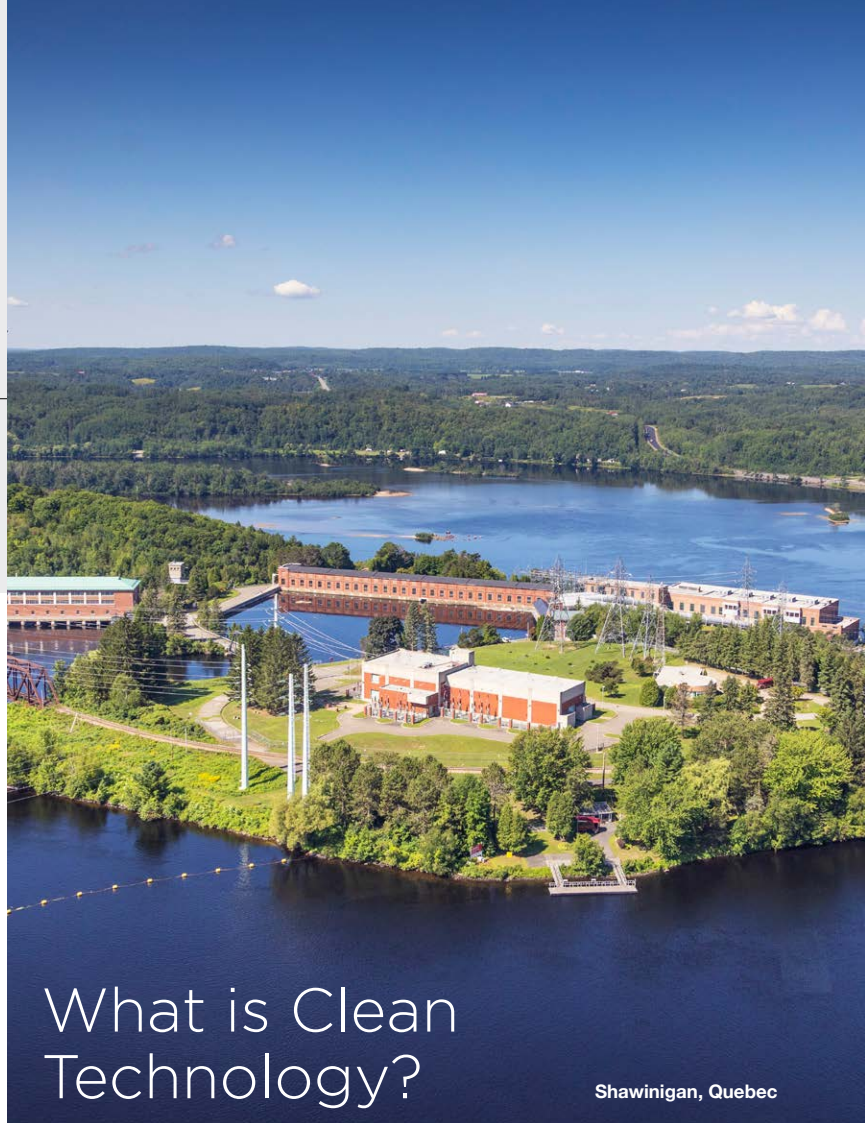
Two Vancouver-based companies were recognized at the 2018 Cleantech Forum San Francisco. **Awesense** received the GE Innovation Award for best representing GE's innovation themes in advancing smart power. The Automation of Everything Company of the Year Award went to **MineSense Technologies** for its impact on industrial automation and energy efficiency.

CANADA'S CLEAN TECH LEADERS

Thirteen Canadian companies were named to the **2018 Global Cleantech 100** list.



SOURCE: CLEANTECH GROUP, 2018 GLOBAL CLEANTECH 100



Any process, product or service that reduces environmental impacts on climate, water, land and air.

Segments/subsectors include:

- Bio-Refinery Products
- Contaminated Soil and Groundwater Treatment/Remediation
- Digitalization in the Energy Sector
- Effluent Measurement and Control Technologies
- Emissions Control
- Energy Efficiency/Green Building Technologies
- Energy Infrastructure/Smart Grid Applications
- Fuel Cells
- Fusion Power
- Green Building Technologies
- Green Chemistry
- Green Infrastructure
- Green Transportation
- Hydrogen
- Industrial Internet of Things
- Land and Water Remediation
- Lifecycle Assessment
- Prevention of Land/Biodiversity Impact
- Recycling and Water Management
- Recycling, Recovery and Remediation
- Renewable Energy
- Smart Cities
- Sustainable Mobility
- Technologies For Reducing Greenhouse Gas Emissions
- Treatment of Ambient Air and Atmospheric Emissions
- Water and Wastewater Management Technologies
- Water Management Technologies

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SUBSECTOR SPOTLIGHT

SMART CITIES + SMART GRID APPLICATIONS

A paradigm shift is taking place in Canada's power industry towards a more decentralized energy supply and bidirectional power flows. Stakeholders include utilities, independent power producers, governments, regulators, manufacturers and the housing industry.



SUCCESS STORIES

Toronto Hydro is testing the world's first underwater compressed-air energy storage project. The system, developed by **Hydrostor**, converts electrical energy into compressed air, which is then stored in a series of flexible wall air accumulators below the surface of Lake Ontario until required by the grid.

GaN Systems, a global leader in GaN (gallium nitride) power semiconductors, enables the design of smaller, lower cost and more efficient power systems to meet the needs of data centre servers, renewable energy systems, automotive, industrial motors and consumer electronics.

WATER + WASTEWATER MANAGEMENT TECHNOLOGIES

SUCCESS STORIES

Axine Water Technologies of Vancouver has developed a low-cost, energy-efficient and chemical-free solution for treating high concentrations of complex, toxic organics and ammonia in industrial wastewater. A wide range of water-intensive industries, such as chemical manufacturing and oil and gas, employ this breakthrough.

Toronto's **Pond Technologies** has developed a proprietary system that transforms food-grade carbon dioxide into biofuel. The system can also be applied to sensor-supported farming of terrestrial plants in greenhouses, or bioremediation of contaminated water.

#meetincanada

GREEN ENERGY + ENERGY EFFICIENCY

Canada's clean tech companies spent more than **\$1.5 billion** on R&D in 2015, with most of the spending going to **energy efficiency in operations**, followed by waste management and recycling.

Alter NRG of Calgary uses Westinghouse Plasma technology, an innovative plasma gasification solution, to convert many types of waste—including municipal, commercial and industrial waste—into a clean synthesis gas. This energy can be used by high-efficiency gas turbines and next generation liquid fuels technologies and, looking forward, will power fuel cells and create renewable hydrogen.



Wastewater treatment plant, Waterloo Region, Ontario

VANCOUVER

Clean technology is a major pillar under Vancouver's Green Economy umbrella. A major clean tech hub, Vancouver leads the way in fuel cell solutions, power electronics and waste/wastewater treatment technologies.

3,500
EMPLOYED

200+
COMPANIES

SOURCE: VANCOUVER ECONOMIC COMMISSION

“Vancouver is one of the best places in the world for a clean tech business to thrive. Vancouver is attracting global attention for its greenest city vision, aggressive building policies and highly supportive business environment, including global game-changers involved in everything from fusion energy to carbon sequestration.”

— John McPherson, Sector Development Manager, Cleantech, Vancouver Economic Commission



World's **3rd** greenest city



Home to a global **top 10** clean tech cluster

World's largest **hydrogen and fuel cell industry**, with a **16%** global market share

4th most innovative clean tech sector

SOURCES: VANCOUVER ECONOMIC COMMISSION; GLOBAL CLEANTECH INNOVATION INDEX, 2017

SUCCESS STORIES

In 2017, **Ballard Power Systems** became the first fuel cell company to power buses for more than 10 million cumulative kilometres of revenue service. Fuel cells generate onboard power to recharge batteries, thus improving electric bus performance.

dPoint Technologies significantly improves the energy efficiency and air quality in buildings via its patented fuel-cell heat and humidity exchanger technology. The innovation transfers heat and humidity between the intake and exhaust in a residential or commercial building's ventilation system.

Nexterra Systems Corp. has developed the world's most commercialized energy-from-waste gasification technology, enabling communities to convert non-recyclable organic waste into clean, renewable heat and power.

COMPANIES

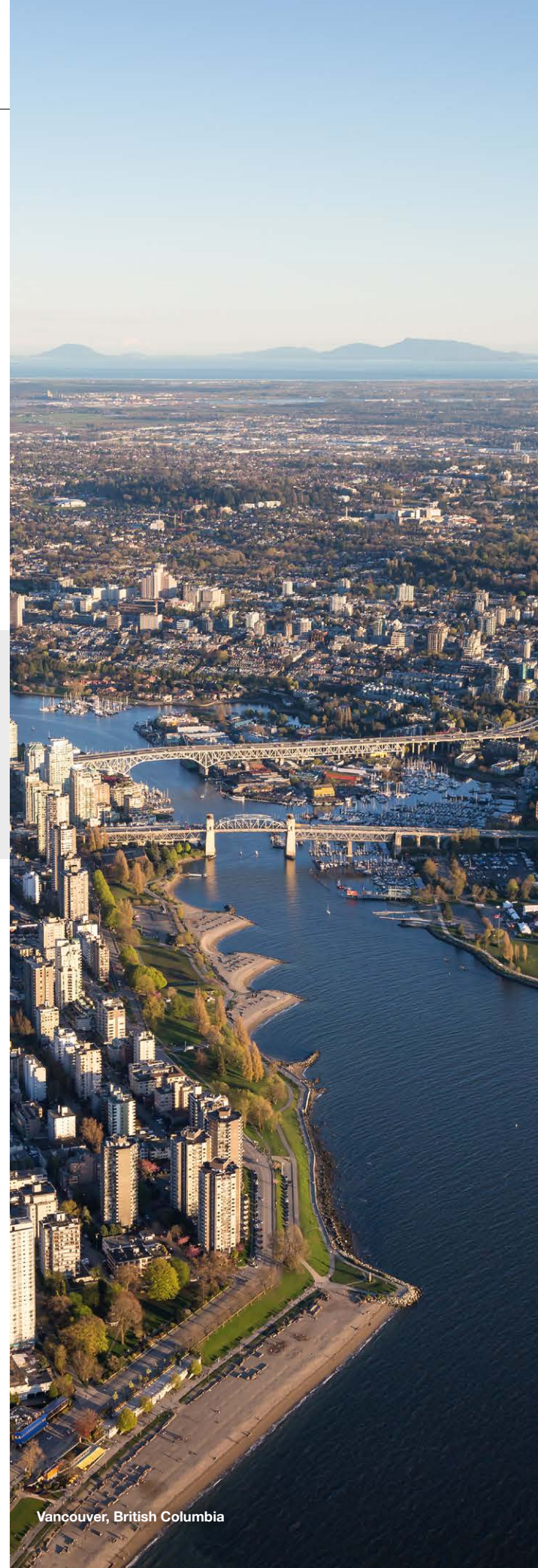
- Awesense
- Axine Water Technologies
- Ballard Power Systems
- BQE Water
- dPoint Technologies
- Enbala Power Networks
- General Fusion
- Nexterra Systems
- Saltworks Technologies
- SemiosBio Technologies
- Terramera
- Westport

25% of Canadian clean technology companies are located in Vancouver

10TH CLEAN ENERGY MINISTERIAL (CEM10)

4TH MISSION INNOVATION MINISTERIAL (MI-4)

May 26–29, 2019
600 attendees



Vancouver, British Columbia

CALGARY

Calgary is the heart of Canada's energy industry, with nearly one-third of its GDP attributed to conventional energy, and with more than 140 companies devoted to developing and supplying clean-tech products and services to the oil and gas industry.

\$615 MILLION

DIRECT GDP IMPACT FROM OIL AND GAS SECTOR-RELATED CLEAN TECH IN THE CALGARY REGION

4,500

EMPLOYED IN OIL AND GAS CLEAN TECHNOLOGY IN THE CALGARY REGION

150

COMPANIES IN THE CALGARY REGION

SOURCE: CLEAN TECH IN OIL AND GAS SUMMARY REPORT, CALGARY REGION, 2017

COMPANIES

- DarkVision Technologies
- Enbridge
- ENMAX
- Greenergy Renewable Energy

Calgary is home to world-class research centres



The University of Calgary's Centre for Advanced Solar Materials and the Calgary Advanced Energy Storage and Conversion Research Group

CRIN

The Clean Resource Innovation Network (CRIN)



Canada's Oil Sands Innovation Alliance (COSIA)



The Alberta Carbon Conversion Technology Centre (ACCTC)



The Southern Alberta Institute of Technology's Green Building Technologies Lab

“Calgary's rapidly growing clean tech sector is a natural evolution from the city's position as a global hub for the energy industry. Our clean tech ecosystem is supported by a vibrant startup support community that is symbiotic with R&D led by large corporate players. As we build our next economy, we will leverage that entrepreneurial success to create a clean tech economy with global reach.”

— Dr. Terry Rock, President & CEO, Calgary Technologies Inc.

SUCCESS STORIES

Calgary-based **Acceleware's** simple and inexpensive RF heating technology solution provides oil sands producers with energy efficiencies and significant environmental and cost benefits when compared to Steam Assisted Gravity Drainage.

DarkVision Technologies' high-resolution ultrasound-based well imaging technology is helping oil and gas producers reduce operating costs, increase production, improve well integrity and minimize environmental impacts.

TORONTO

Toronto is a hotbed of innovation when it comes to developing smart clean-tech approaches to tough environmental challenges. The city's Green Market Acceleration Program is designed to speed the development and commercialization of made-in-Toronto green technologies, while the Advanced Energy Centre is a public-private partnership that fosters the adoption of innovative energy technologies in Canada and worldwide.

“With a dedication to innovation, Toronto is a destination that is committed to research and development in clean technology and sustainability. Our network of colleges and universities are driving advancements and are home to some of the world's top industry experts. With the arrival of Sidewalk Labs' smart city project, the focus on creating sustainable communities will continue to push our growth in this sector.”

— Tara Gordon, VP, Sales & Service, Business Events Toronto

1,700
BUSINESSES

36,000
EMPLOYED

DISTRIBUTION OF JOBS IN THE GREEN SECTOR

- 46%** Sustainable Transportation
- 21.3%** Resource Management
- 17.9%** Green Buildings
- 8.7%** Clean Energy
- 6.1%** Bioproducts

SOURCE: CITY OF TORONTO

COMPANIES

- Aslan Technologies
- eCAMION
- Ecobee
- ENBALA Power Networks
- FIBOS
- Hydrogenics
- Hydrostor
- Morgan Solar
- Opus One Solutions
- Peak Power
- Woodland Biofuels



The **CleanTech Cluster**, led by the University of Toronto's Impact Centre, features joint product development and research projects, facilitated access to funding opportunities and help to sectors that are transitioning to greener products and processes.

URBAN LAND INSTITUTE

Spring Meeting
May 2020
3,600 attendees

SUCCESS STORIES

Waterfront Toronto is working with **Alphabet's Sidewalk Labs** to transform part of the downtown into a new kind of neighbourhood. Driven by digital innovation, the project aims to achieve sustainability, affordability, mobility and economic opportunity, and to serve as a model for sustainable neighbourhoods worldwide.



Toronto, Ontario

OTTAWA

As a G7 capital and home to Canada's highest concentration of scientists and engineers, Ottawa is an international hotspot in the development and advancement of clean technologies.

5,500

EMPLOYED

240

COMPANIES

SOURCE: INVEST OTTAWA

COMPANIES

- Clearford Water Systems
- Enbridge
- GaN Systems
- Johnson Controls
- Thermalfrost
- Waste Management
- Wesco Distribution Canada
- Zibi

“After extensively researching several cities across the country, we decided to organize ECORISMO Canada—the first North American edition of an internationally-renowned forum/tradeshow on sustainable tourism—in the Ottawa-Gatineau region. Its access to world-class, eco-responsible accommodations and conference space in a culturally diverse and bilingual region, were of primary importance and its dynamic, vibrant travel industry was already well connected with the fastest growing innovation and tech hub in Canada.”

— Martin Lacelle, Director, Economic Development, Société Économique de l'Ontario



Canada's highest concentration of clean energy and technology researchers, scientists and engineers



65+ R&D centres are headquartered in Ottawa



CanmetENERGY is Canada's leading research and technology organization in the field of clean energy

ECORISMO CANADA

September 10–11, 2018
400 attendees

SUCCESS STORIES

Zibi is a sustainable community and redevelopment project led by **Windmill Development Group**. The multi-phase project is driven by a 10-point action plan calling for carbon neutral buildings and structures, waste reduction and the use of low-impact, durable, local and reclaimed construction materials.

MONTRÉAL

Montréal demonstrates its leadership in clean tech thanks to a dynamic research community, highly skilled workforce, and a diverse range of companies and organizations delivering cutting-edge technologies, goods and services.

30,000

EMPLOYED

More than **1,000** organizations, including **500** innovative companies and **200** R&D or technology transfer companies

SOURCE: ÉCOTECH QUÉBEC



Montréal is home to **11 universities** offering specialized programs



Éco-campus **Hubert Reeves**, part of the Technoparc Montréal scientific campus, is dedicated to R&D companies active in the clean technologies sector and is the first of its kind in North America.

AMERICANA

March 26–28 2019
10,000 attendees

“With growing public awareness of climate issues and increasing commitment from governments, Quebec's booming clean tech sector has businesses paying close attention. Clean tech companies already have a solid presence in the province of Quebec, where startups operate alongside more established companies.”

— Patrick Bossé, Partner and Quebec Energy Sector Leader, EY

COMPANIES

- AECOM
- BRP
- CIMA+
- Dessau-Soprin International
- Énergie Matrix
- Enerkem
- GHGSat
- SNC-Lavalin
- WSP Global

SUCCESS STORIES

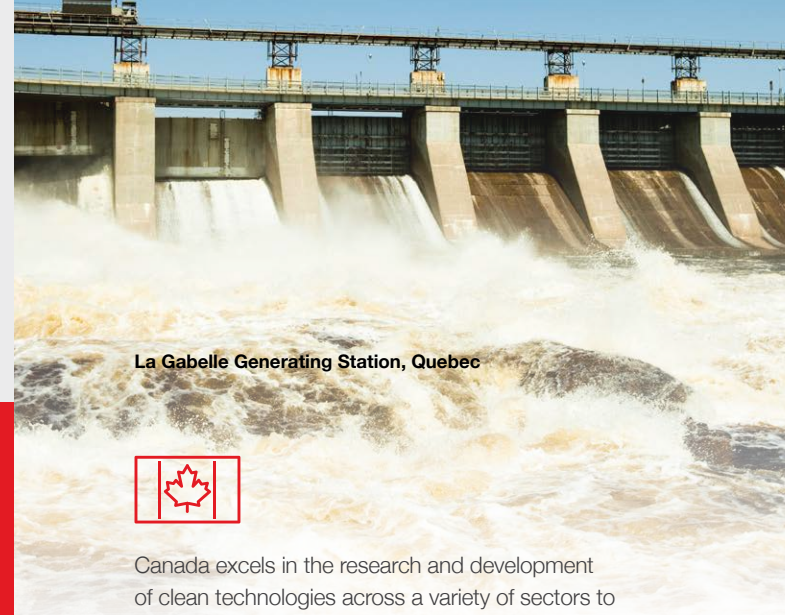
In 2016, **GHGSat** launched the world's first high-resolution satellite capable of measuring greenhouse gas emissions coming from any industrial facility in the world. The technology lets owners monitor their facilities with a common technology, in near-real-time.

Enerkem offers a sustainable solution for waste management and energy diversification through the manufacture of biofuels and renewable chemical products from non-recyclable waste. Using a patented technology, Enerkem converts carbon into a pure synthesis gas, which is then turned into biofuels and chemicals.



WHY CANADA

FOR CLEAN TECH CONFERENCES



La Gabelle Generating Station, Quebec



Canada excels in the research and development of clean technologies across a variety of sectors to improve efficiencies and profitability while reducing waste, emissions and materials on land, in the air and in the water.

CLEAN TECH IS BIG BUSINESS,

from Montréal and Ottawa to Toronto, Calgary and Vancouver. The diversity of clean tech subsectors found in Canada means plenty of local champions across Canada to help augment your conference agenda.



Canada's Clean Energy Research Centre, the **Institute for Integrated Energy Systems**, the **Centre for Advanced Solar Materials**, the **Centre for Urban Energy**, and the **Éco-campus Hubert Reeves** all host world-leading researchers who are developing technologies to reduce the environmental impacts of industry across the planet.

Cutting-edge research in precision agriculture and bioproducts by Canada's Agricultural Clean Technology Program promotes sustainable growth while reducing greenhouse gas emissions.



Vancouver Convention Centre



SMART MEETING VENUES

Through collaboration between government, academia and industry, Canada is addressing a large range of complex global challenges, from renewable energies and smart energy grids, to waste water management and green transportation. **The breakthroughs happening here will impact billions of lives for generations to come.**



Through climate leadership initiatives, Canadian businesses are driving clean energy technologies to mitigate the environmental impact of natural resource extraction while maintaining productivity and profitability along the way.



Canada is a global leader in hydrogen and fuel cell research, development and early stage commercialization, and is the world's largest hydrogen and fuel cell centre of excellence.

The **Vancouver Convention Centre** is the world's first **double LEED Platinum-certified** convention centre and one of many sustainably designed and operated meeting and hotel spaces across Canada. Combined with urban transit systems and pedestrian-friendly cities, you've got endless choices for eco-smart meeting locations.



Canada has hosted North America's **largest business and sustainability summit** every other year for 28 years. The connections taking place at the **GLOBE Forum** help shape the global green economy through technology, innovation, research and investment.

CANADA

BUSINESS EVENTS

NO ONE KNOWS CANADA LIKE WE DO!

The Business Events Canada team offers in-depth knowledge of all Canadian destinations from industry content to conference facilities. Contact us for solutions and support on the fundamentals of meeting in Canada, including introductions to our extensive cross-country network of meeting and event partners.

Business Events Canada is your first point of contact when considering Canada for your group!

FIND OUT MORE  businessseventscanada.ca
[#meetincanada](https://twitter.com/meetincanada)

Virginie De Visscher

Director of Business Development, Economic Sectors
virginie.devisscher@businessseventscanada.ca
+1 204-802-0920