A leading research and development hub at the forefront of green innovation

British Columbia, Canada is home to world-class clean technology companies and is a leading centre for scientific innovation. British Columbia offers a skilled and educated workforce, a prime location and a high quality of life.

Join leading clean tech companies including Ballard Power Systems, Methanex, General Fusion, MineSense, Corvus Energy, Awesense, Carbon Engineering, Powertech Labs and others on the cutting edge of scientific excellence in renewable energy, clean transportation technology, energy efficiency and waste resource management.

If you want to locate your business in an ideal environment for technology investment and partnership opportunities, British Columbia is the right place to be — it’s where innovative technologies are taking off.
British Columbia’s clean technology advantages

With an abundance of natural resources, clean power and a welcoming business environment, British Columbia is making a cleaner future a reality today.

**THRIVING CLEAN TECHNOLOGY CLUSTER**

British Columbia has one of the highest tech sector growth rates relative to GDP in Canada, serving as home to more than a quarter of Canadian clean technology companies. Seven B.C. clean tech businesses are on the 2019 Global Cleantech 100, which lists companies from around the world with the most innovative and promising ideas in clean tech.

**OUTSTANDING RESEARCH INSTITUTIONS**

Twenty-five world-class educational institutions and several centres of excellence support green research and technology development in British Columbia.

**EXCEPTIONAL TALENT**

Across British Columbia’s broader tech ecosystem, a large, flexible and educated workforce of more than 114,000 is well represented by young, diverse and energetic talent. The clean tech sector employs more than 8,500 of these skilled individuals. And the province has a growing number of technology-related graduates.

**CLEAN POWER AT LOW PRICES**

British Columbia has abundant water and clean, reliable energy — 98% created directly from renewable resources — providing a steady stream of environmentally sustainable power at rates that are among the lowest in North America.

**CLEANBC PLAN**

British Columbia is already at the forefront of green innovation. And the new CleanBC plan cements the province’s position as a key destination for new investment and industry looking to meet the growing global demand for low-carbon products, services and pollution-reducing technologies. By driving the province toward clean and energy-efficient solutions — ensuring that every new building is “net-zero energy ready” by 2023 and that every new car sold is zero-emission by 2040, for example — CleanBC continues to spur innovation in British Columbia’s clean tech sector.

**SUPPORTIVE GOVERNMENT**

- British Columbia’s general corporate income tax rate is 12%. When combined with the federal rate, businesses pay an overall rate of 27%.
- British Columbia has the lowest provincial personal income taxes in Canada for single individuals earning up to $125,000.
- The $100 million BC Tech Fund, a venture capital fund-of-funds, invests in British Columbia’s emerging technology companies and supports the development of a strong venture capital system.
- A $40 million partnership between British Columbia’s Innovative Clean Energy Fund (ICE) and Sustainable Development Technology Canada (SDTC) supports the development of pre-commercial clean-energy projects and technologies and is available through one streamlined application process.
- The BC Knowledge Development Fund invested over $11 million for post-secondary research equipment to develop innovative clean technologies. Companies that partner with British Columbia’s universities can benefit from their state of the art research infrastructure, and from their researchers’ and graduate students’ expertise.
- British Columbia is a leader in zero-emission vehicles (ZEVs) with the highest per capita adoption of ZEVs in the country (4.03% of light-duty vehicle sales in 2018). The Province’s Clean Energy Vehicle Program is providing funding support for the deployment of both charging and hydrogen fuelling infrastructure across the province. B.C. has one of Canada’s largest public charging networks and the first public hydrogen fuelling station in Canada, with plans to build out more. Under the Clean Energy Vehicle Program, the Advanced Research and Commercialization (ARC) Program is designed to support the development of B.C. companies operating in the CEV sector, and to encourage international investment in the zero-emission vehicle sector in British Columbia. The Province will be introducing legislation in 2019 to implement zero emission vehicle (ZEV) standard that will require new light-duty vehicle sales in B.C. to include 10% ZEVs by 2025, 30% ZEVs by 2030, and 100% ZEVs by 2040.
- Find information on incentives at BritishColumbia.ca.

British Columbia’s clean technology advantages

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Industry profile

British Columbia’s diverse clean tech sector is a leader in the research and development of innovative new systems and products.

HYDROGEN AND FUEL CELL

Led by Ballard Power Systems, a global innovator in PEM (proton exchange membrane) fuel cell technology, companies in British Columbia are developing hydrogen and fuel cell technology as a clean-energy solution in diverse applications, from materials handling and backup power for portable electronics to fuelling infrastructure and transit buses. Ballard has designed and shipped 320 megawatts of hydrogen fuel cell technology to date.

CLEAN TRANSPORTATION

British Columbia leads the way in clean transportation technology. The industry’s major manufacturers have already invested in and adopted B.C. innovations in fuel cell and natural gas engines. B.C.’s Westport Innovations, for example, engineers the world’s most advanced natural gas engines, vehicles and long-haul trucks, reducing both emissions and fuel costs and fundamentally changing the way the world travels.

ENERGY MANAGEMENT AND ENERGY EFFICIENCY

British Columbia is home to innovators in energy efficiency and smart measurement, monitoring and control. Corinex Communications, for example, develops and manufactures solutions for smart metering and smart grid infrastructure projects, while Neurio offers industry-leading energy monitoring, control technology and sophisticated analytics to manage energy usage at home.

CLEAN AND RENEWABLE ENERGY

British Columbia’s abundant natural resources drive the development, testing and use of clean, renewable energy technology including wind, hydroelectric and biomass. Pinnacle Renewable Energy, for example, manufactures pellets that produce renewable energy for some of the largest electrical generating facilities in the U.K., Europe and Asia.

WATER AND WASTE RESOURCE MANAGEMENT

British Columbia’s cutting-edge companies turn wastewater and solid waste into pristine drinking water, clean energy and valuable, marketable materials. Nexterra Systems, a global leader in energy-from-waste gasification systems, supplies a biomass gasification system for a major U.K. renewable energy power plant. Harvest Power uses discarded organic materials to produce renewable energy and fertilizers. Axine Water Technologies has developed a low-cost, chemical-free solution for treating high concentrations of pollutants in industrial wastewater. BI Pure Water offers custom-designed containerized and mobile water-treatment plants. And Ostara has developed the technology to harvest nutrients from wastewater and transform them into pure, eco-friendly fertilizer that improves nutrient efficiency and reduces the risk of leaching and runoff.

BRITISH COLUMBIA’S COMPETITIVE ADVANTAGES

- Large, flexible and educated workforce
- High quality of life
- Prime location
- Competitive corporate and personal income taxes
- Green, low-cost power
- Excellent public infrastructure
- Expert scientists and state-of-the-art research infrastructure
Centres of Excellence

British Columbia’s green centres of excellence bring experts from the public, private and academic sectors together to collaborate on applied research, development and commercialization of new technologies.

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<td>British Columbia Institute of Technology</td>
<td>Research and training renewable energy technologies (geoexchange, photovoltaics and biomass lighting) in an integrated systems approach</td>
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<tr>
<td>Centre for Interactive Research on Sustainability</td>
<td>University of British Columbia</td>
<td>Research on Sustainable building technologies and urban development practices</td>
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<tr>
<td>Energy House</td>
<td>Northern Lights College</td>
<td>Training on wind turbines, photovoltaics, solar thermal, biomass and geoexchange</td>
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<td>Institute for Resources, Environment and Sustainability</td>
<td>University of British Columbia</td>
<td>Research on sustainable resource management and ecology</td>
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<tr>
<td>Pacific Institute for Climate Solutions</td>
<td>University of Victoria, University of British Columbia, Simon Fraser University and University of Northern British Columbia</td>
<td>Research on low-carbon economy, climate change, sustainable communities and resilient ecosystems</td>
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<tr>
<td>Jim Pattison Centre of Excellence in Sustainable Construction Management Technology</td>
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