



Clean Technology

Trailblazers in cleantech — sustainable growth happens here

An aerial photograph of a river flowing through a lush green forest. A dam is visible in the middle of the river, with water cascading over it. The surrounding landscape is hilly and covered in dense evergreen trees. In the background, more mountains are visible under a blue sky with scattered white clouds.

British Columbia, *Naturally.*

BritishColumbia.ca

British Columbia (B.C.), Canada is home to world-class clean technology companies. The province offers a **skilled and educated workforce, a prime location** on Canada's West Coast and an **exceptional quality of life**.

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 flourishing**.

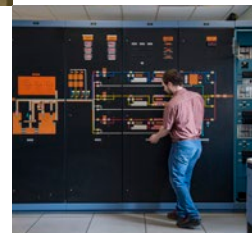
CleanBC Roadmap to 2030

British Columbia is at the forefront of green innovation. Since 2018, the province's internationally recognized climate plan, CleanBC, has established B.C. as a key destination for new investment and industries looking to meet the growing global demand for low-carbon products, services and technologies. The CleanBC Roadmap to 2030, released in 2021, outlines a strengthened approach to building a cleaner, stronger economy. The plan creates significant opportunities for B.C.'s cleantech sector.



Powering Our Future: B.C.'s Clean Energy Strategy

To build a cleaner economy and support growing communities, the Province released B.C.'s Clean Energy Strategy in June 2024. This strategy focuses on energy efficiency, clean electricity, clean fuels and grid expansion. It aims to create a clean, competitive and inclusive B.C., powered by locally-produced clean energy and committed to achieving net zero emissions by 2050.



British Columbia's Clean Technology Advantages

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

Exceptional Talent

Across British Columbia's broader tech ecosystem, a large, flexible and educated workforce of more than 210,000 is well represented by diverse and energetic talent. The cleantech sector in B.C. consists of 480 companies employing more than 15,000 of these skilled individuals. British Columbia is continually investing in post-secondary programs and training to further develop and expand our local talent pool. For example, a key pillar of the Province's Look West economic strategy, focuses on ensuring the jobs and opportunities needed to support our growing sectors. This includes increased investment in training and support, as well as new pathways for highly qualified professionals in key areas, including technology.

Thriving Clean Technology Ecosystem

British Columbia is home to about 20% of all Canadian clean technology companies. In 2024, the environmental and clean technology products sector in B.C. contributed \$13.5 billion to provincial GDP. Statistics Canada recorded that the environmental and cleantech sector grew to \$87.6 billion at the national level in 2024. Four B.C. cleantech businesses are included in the 2026 Global Cleantech 100 Report, which lists companies from around the world with the most innovative and promising ideas in cleantech.



Clean Power in British Columbia

British Columbia has abundant water and wind resources, and clean, reliable electricity — 98% created directly from renewable sources, providing environmentally sustainable power at rates that are among the lowest in North America. While electricity demand in B.C. is expected to increase by 15% by 2030, BC Hydro, a provincial Crown corporation that generates and delivers electricity to 95% of the province's population, is making significant investments to ensure continued access to reliable and clean electricity.



British Columbia's diverse cleantech sector is a leader in researching, developing and commercializing innovative new systems and products.

Industry Profile

Carbon Capture and Storage or Utilization

British Columbia has significant carbon capture and storage potential, supported by extensive geological capacity in the Northeast that can enable emissions reduction and future low-carbon opportunities such as hydrogen production. Svante Inc. based in Burnaby, B.C., provides an adsorption process to capture carbon directly from flue gas from industrial sources.

Clean and Renewable Energy

British Columbia's abundant natural resources drive the development, testing and use of clean, renewable energy technology including wind, solar, hydroelectric and biomass. Powertech Labs located in Surrey, B.C., is one of the largest testing and investigation facilities in North America for electric utilities, equipment manufacturers, industry, energy producers and transporters. The lab hosts an international customer base.

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 Fuel Systems engineers the world's most advanced natural gas and hydrogen fuel engines, reducing both emissions and fuel costs and fundamentally changing the way the world travels. In June 2024, Westport Fuel Systems and Volvo Group announced their partnership to advance the commercialization of their HPDI fuel system using renewable fuels and hydrogen. Hydra Energy is sourcing low-carbon hydrogen from leading chemical partners in B.C., providing clean fuel to Hydra-retrofitted trucking fleets.

Energy Management, Efficiency and Storage

British Columbia is home to innovators in energy efficiency and smart measurement, monitoring and control, and energy storage. Vancouver based Awesense provides real-time energy analytics to modernize energy grids, while Clir Renewables is a cloud-based AI platform for renewable energy asset managers and owners.

Hydrogen and Fuel Cell Technology

British Columbia is home to an established and growing cluster of hydrogen and fuel cell technology companies providing clean energy solutions for diverse applications including transportation, heating for buildings and industrial processes. Notably, Ballard Power Systems is a world leader in the development, manufacture, sale and servicing of hydrogen fuel cell power systems. The company's products are utilized in various markets, ranging from heavy-duty motive power to marine and rail applications.

Water and Wastewater Treatment

Leading water and wastewater treatment companies in British Columbia include Axine Water Technologies, which provides onsite treatment of toxic organic pollutants in industrial wastewater; Saltworks, which focuses on industrial wastewater treatment and lithium refining.



Centres of Excellence

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

Centre of Excellence	Academic Institutions	Focus
Centre for Energy Systems Applications	British Columbia Institute of Technology	Develop, coordinate and support training and education in integrated energy systems applications
Centre for Interactive Research on Sustainability	University of British Columbia	Research on sustainable building technologies and urban development practices
Clean Energy Research Centre	University of British Columbia	Multidisciplinary research hub dedicated to undertaking clean energy research, training, development and demonstrations
Institute for Integrated Energy Systems	University of Victoria	Research on several themes related to integrated energy systems
Pacific Institute for Climate Solutions	University of Victoria, University of British Columbia, Simon Fraser University and University of Northern British Columbia	Research on low-carbon economy, climate change, sustainable communities and resilient ecosystems
SFU Hydrogen Hub	Simon Fraser University	Produce hydrogen, and test, scale-up and export hydrogen technologies and products
Sustainable Energy Engineering Facility	Simon Fraser University	Research and training for smart cities, clean transportation and sustainable manufacturing
NRC–UBC Collaboration Centre for Clean Energy	National Research Council of Canada University of British Columbia	Develop and integrate clean energy conversion processes and devices to act as strong economic alternatives to fossil fuels
UBC Okanagan Clean Technology Hub	University of British Columbia Okanagan	A central innovation space that catalyzes academic-industry collaborations to advance clean technologies
UBC Okanagan Advanced Materials for Energy Storage Lab	University of British Columbia Okanagan	Conducts research in batteries, electrochemistry and advanced manufacturing
UBC Smart Hydrogen Energy District	University of British Columbia	This is early stage though research and produce hydrogen using solar and hydro power to serve light- and heavy-duty vehicles

Supportive Government

- The Integrated Marketplace links buyers with B.C. companies to implement, scale up and export B.C. technology while helping industry reduce carbon emissions and improve health and safety, increase productivity, build resiliency and more.
- The InBC Investment Corp. launched in 2021 and oversees a \$500-million strategic investment fund. These investments foster a low carbon economy, support lasting and meaningful reconciliation with Indigenous Peoples, help achieve greater diversity and inclusion, and contribute to a sustainable economy.
- The Scientific Research & Experimental Development Tax Credit allows qualified companies to claim tax credits for eligible expenditures while the Small Business Venture Capital Tax Credit allows corporations that invest in shares of registered venture capital corporations or eligible business corporations to receive tax credit including in clean technology.
- The Province has a robust portfolio of grant programs for businesses. The CleanBC Industry Fund has invested more than \$244 million into supporting industry projects that directly reduce industrial emissions, accelerate new emissions reduction technologies and study potential decarbonization opportunities.
- Since 2008, B.C.'s Innovative Clean Energy Fund (ICE) has committed over \$110 million to support pre-commercial clean energy technology projects, clean energy vehicles, research and development, and energy efficiency programs. The ICE Fund often partners with other funds to co-fund projects that advance B.C.'s clean energy sector and reduce greenhouse gas emissions.
- Through its Venture Acceleration Program, B.C. crown agency Innovate BC helps tech entrepreneurs in B.C. accelerate the development of proven business models.
- B.C.'s general corporate income tax rate is 12%. When combined with the federal rate of 15%, businesses pay an overall rate of 27%. Manufacturers of qualifying zero-emission technology pay a lower federal rate of 7.5% for an overall rate of 19.5%.



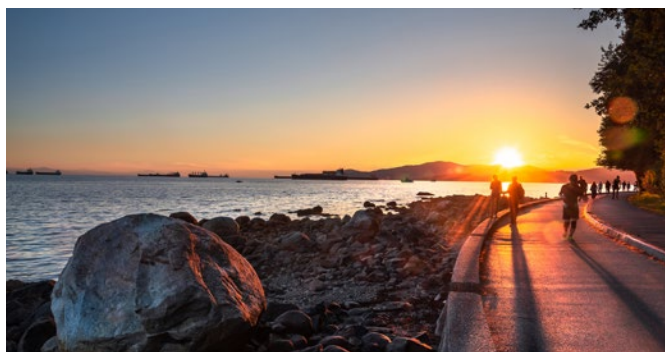
British Columbia's Zero-Emission Vehicle (ZEV) Progress and Goals

- In 2024, light-duty ZEV sales represented 22.4% of all new light-duty vehicle sales in B.C.
- B.C. has one of Canada's largest public charging networks, with over 2,000 public charging stations at the end of 2023.
- The CleanBC Roadmap to 2030 sets more stringent targets for light-duty ZEV sales of 26% by 2026, 90% by 2030 and 100% by 2035.



British Columbia's Competitive Advantages

- Prime location on Canada's West Coast
- Large, flexible and educated workforce
- High quality of life
- Competitive corporate and personal income taxes
- Excellent public infrastructure
- Expert researchers and state-of-the-art research infrastructure
- A flourishing innovation ecosystem
- A leader in sustainable development



Join leading clean and climate tech companies, including:

- CO280 ■ HTEC ■ Ionomr Innovations
- Mangrove Lithium ■ MineSense ■ Moment Energy
- Pani Energy ■ Ph7 Technologies ■ Svante

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Every effort has been made to ensure the accuracy of this publication at the time of writing, however, the programs referred to, and data cited, are subject to change. All figures are in Canadian dollars.



[BritishColumbia.ca](https://www.britishcolumbia.ca)