Clean Energy

Expanding, reliable and responsibly sourced

British Columbia (B.C.), Canada stands out as a global leader in responsibly sourced low-emission clean energy due to its rich resources, advanced technology, skilled workforce, regulatory stability and strategic access to the Asia Pacific market.

B.C. is a clean energy leader as it expands renewable energy projects to deliver more affordable electricity that supports economic growth, attracts new investment, helps businesses scale and create good jobs.

Streamlined permitting is helping projects move forward faster, with the BC Energy Regulator now acting as the primary authority for approving renewable energy developments and transmission lines.

British Columbia's competitive advantages:

- Abundant resources
- Streamlined permitting process
- Easy market access
- First Nations partnerships
- Innovative technologies
- Skilled workforce
- Supportive governmental programs
- Sustainable environmental leadership
- Expanding transmission and distribution infrastructure

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British Columbia, *Naturally.*

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British Columbia is a leader in harnessing its rich natural resources to advance and deploy clean energy technologies.

BIOFUELS

Biofuels are crucial for cutting carbon emissions in challenging sectors like transportation and industrial heating. Sustainable Aviation Fuel (SAF) is one of the fastest global growth areas for biofuels and B.C. is uniquely positioned to become a national leader in SAF production and uptake, supported by the government funded Low Carbon Jet Fuel Incentive Program.

BIOMASS

Bioenergy products like renewable natural gas, wood pellets and biochar need significant feedstock and capital, ranging from $300 million to $1 billion. The Ministry of Forests actively supports projects at the University of British Columbia's Sustainable Functional Biomaterials Lab (SFB), which is developing technologies from high performance materials to biofoam.

CARBON CAPTURE, UTILIZATION AND STORAGE (CCUS) AND NEGATIVE EMISSIONS TECHNOLOGIES

Northeast B.C. is well-suited for long-term CO_2 storage as it sits within the Western Canada Sedimentary Basin. Geoscience research is underway to evaluate the potential for storage in the Western Canada Sedimentary Basin, the Georgia Basin and Nechako Basin.

GEOTHERMAL ENERGY

Geothermal energy comes from heat within the earth's crust and is a clean, renewable resource with a low environmental impact. British Columbia is situated on the Pacific Ocean "Ring of Fire" and has several volcanic regions conducive to geothermal energy.

Join these innovative clean energy companies, including:

- Arbios Biotech
- Ballard Power Systems
- BC Biocarbon Ekona Power
- Elemental Energy
- E-One Moli
- Hydra Energy
- Hydrogen Technology & Energy Corporation (HTEC)
- Moment Energy
- Powertech Labs
- Svante

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.

RENEWABLE ELECTRICITY

With electricity demand set to rise 15% by 2030, BC Hydro continues to seek proposals for additional gigawatt hours of additional electricity annually, including two Calls for Power issued since 2024. B.C. is also building the North Coast Transmission Line and making transmission and distribution infrastructure upgrades to move electricity to customers.

RENEWABLE NATURAL GAS (RNG)

RNG is emerging as a lower-carbon energy source, with FortisBC procuring RNG from within and outside B.C. to meet a target of 10% zero-carbon fuel supply by 2030 and 30% by 2050.

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