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Nova Scotia Business Inc

SNAPSHOT

Clean Technologies

Did you know that Tesla's first research partnership with a Canadian university is in Nova Scotia?

The multi-year project is leading the field of energy storage research with strides being made well before anticipated milestones.

There are few places in the world with the marine energy potential of the Bay of Fundy. The Bay moves over 160 billion tonnes of water every tide, which is more than all the freshwater rivers and streams in the world combined. Simply put, if equipment survives the force of the Bay of Fundy, it can survive anywhere – which makes it a brilliant location for large-scale, grid-connected testing.

Canada's leading research centre for in-stream tidal energy is in Nova Scotia.

About the Sector

Nova Scotia's access to a variety of renewables and a number of organic materials offers an opportunity for significant R&D activities as well as commercial-scale projects.

Renewable Energy
Canada's leading research centre for in-stream tidal energy, FORCE, offers grid-connected testing on the Bay of Fundy. Opportunities exist to develop technologies associated with renewable energy monitoring, analysis and prediction.

Waste Stream and Biomass Utilization
We have an understanding of a variety of different waste streams. From hot processed water to agricultural, marine, and woody biomass, Nova Scotia is the place to be for value-added BioProducts.

Biofuels
Nova Scotia has expertise in algal conversion to biofuels. A federal research facility, NRC Ketch Harbour, houses the Algal Carbon Conversion (ACC) Flagship program, which assists in the development of high-value, sustainable products from algal biomass.

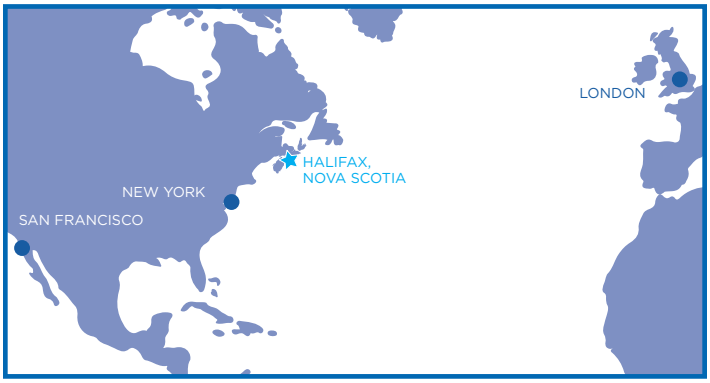
Research and Innovation
Canada's University Capital, Nova Scotia, is home to 10 universities and 13 community college campuses across the province—many of which conduct industry-leading research. Federal and provincial research labs can also be found throughout the province including:

- Perennia Innovation Centre;
- Fundy Ocean Research Centre for Energy (FORCE);
- Centre for Ocean Ventures and Entrepreneurship (COVE);
- The Verschuren Centre for Sustainability in Energy and the Environment at Cape Breton University.

Business and R&D Incentives

According to KPMG's 2016 Competitive Alternatives report, Halifax's competitive edge includes 13%, 20%, and 24% overall operating cost advantages over London, Seattle, and New York, respectively. The province also offers:

- **Research and Development Tax Credits:** up to 50% of qualified Scientific Research & Experimental Development expenditures made in Nova Scotia are eligible as a tax credit.
- **Innovation Rebate Program:** 25% of qualified capital investment expenditures are eligible for a rebate.
- **Accelerated Capital Cost Allowances**: the cost of specified clean energy equipment is eligible for a full tax write-off the year it is put in use in the business, translating to lower taxable income in the first year of operations.
- **Payroll Rebate:** return on a company's eligible gross payroll.
- **Export Programs**: suite of funding programs designed to assist companies throughout the export process.



You're in good company

Some of the world's top companies have taken advantage of the unique opportunities in Nova Scotia's clean technologies sector.

CARBON CURE · greenpowerlabs · LED ROADWAY LIGHTING · MARA · TESLA

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