

Clean Technology

Nova Scotia, Canada

A leading research and development industry with expertise in energy storage and direct access to a variety of renewables.

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 and non-grid connected testing and research projects.

Did you know that Nova Scotia is also a leader in battery research? Tesla has partnered with Dalhousie University Research Chair, Dr. Jeff Dahn, to develop lithium-ion (Li-ion) batteries. This exclusive five-year partnership is the first of its kind between Tesla and a Canadian University.

**Nova Scotia is
enriched with a
natural bounty of
bio-resources**

Clean Technology in Nova Scotia, Canada

About the Sector

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

Energy Storage

Nova Scotia is quickly becoming a hub for energy storage. The province is home to North America's leading lead-acid battery producer and Canada's only remaining independent battery manufacturer, Surrette Battery.

You can also find Novonix, a company spun out of Dr. Jeff Dahn's lab at Dalhousie University, that specializes in developing battery testing equipment with a strong focus on the use of high precision coulometry for reliable lifetime evaluation of lithium-ion cells.

Bioeconomy

We work with 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.

Nova Scotia also has expertise in algal conversion to biofuels. A federal research facility, NRC Ketch Harbour, is the only facility in Canada working with algae.

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:

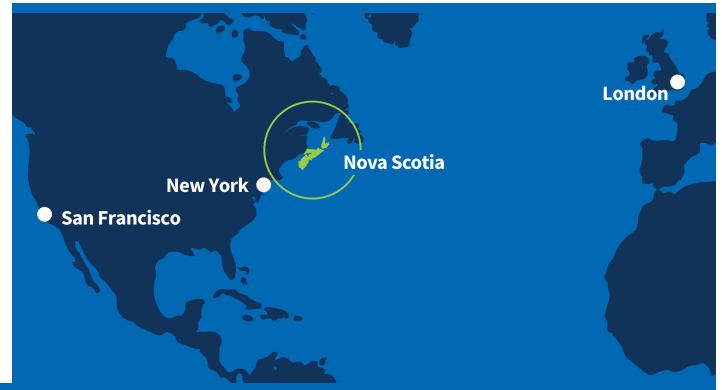
- Perennia Innovation Centre;
- Fundy Ocean Research Centre for Energy (FORCE);
- Centre for Ocean Ventures and Entrepreneurship (COVE);

- Université Sainte-Anne;
- The Verschuren Centre for Sustainability in Energy and the Environment at Cape Breton University.

Business and R&D Incentives

According to KPMG's 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.



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.



FOR MORE INFORMATION CONTACT:

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