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Nova Scotia Business Inc.

# Clean Technology

Advancing clean technology  
for a greener tomorrow.

Nova Scotia is an industry leader with expertise in R&D, energy storage and direct access to a variety of resources.

Nova Scotia is advancing clean growth and sustainability. Our direct access to a variety of renewable energy sources and feedstock materials, paired with skilled talent and research infrastructure, creates opportunities for research, product development and commercial-scale projects.

As well, Nova Scotia is internationally recognized in battery research. Tesla partnered with Dalhousie University's Dr. Jeff Dahn in 2016 to develop improved lithium-ion batteries. Battery research and expertise in the province has only grown since then.

Tesla renewed their partnership with Dr. Dahn for another five years in 2021, expanding to include more researchers.

# About the sector

## Energy Storage

Nova Scotia has a long history in batteries. This includes companies like Surrette Battery — Canada's only remaining independent battery manufacturer and leading lead-acid battery producer and NOVONIX BTS, who are conducting ground-breaking research in lithium-ion battery materials and testing.

Nova Scotia companies and research institutions are on the forefront of developing new technologies. This includes lowering costs and emissions in material manufacturing and improving performance and the integration of renewable energy with the electric grid.

## Bioeconomy

Nova Scotia's bioeconomy is constantly innovating to find novel and sustainable uses for by-products. From cellulosic biomass to shellfish waste, there are opportunities for co-location and partnerships to produce value-added bioproducts.

The Verschuren Centre in Cape Breton is home to unique bioreactor facilities; it is 1 of only 3 units of this size in Canada and the only one with open access and downstream processing.

Nova Scotia also has specialized expertise in algae bioproducts. The federal NRC research facility is exploring the many potential commercial applications of microalgae such as biofuels, aquaculture feeds and anti-microbial compounds.

## Research and Innovation

Nova Scotia is home to 10 universities and 14 community college campuses across the province—many of which conduct industry-leading research. Research centres can also be found throughout the province, including:

- The Dalhousie Clean Technology Research Institute
- The Verschuren Centre for Sustainability in Energy and Environment
- NSCC Applied Research
- Innovacorp Enterprise Centre
- Centre for Ocean Ventures and Entrepreneurship (COVE)

## Carbon Capture, Storage, and Utilization

New methods to capture, store, and utilize carbon are being developed and scaled from CarbonCure Technologies' award-winning concrete solutions. The province is also home to Planetary Technology's first-of-its-kind ocean air capture system.

## Relevant Programs and Incentives

Canada offers some of the world's best R&D incentives. Nova Scotia offers additional R&D top-ups, alongside a supportive business climate.

Industry-relevant incentives include:

- **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.
- **The Capital Investment Tax Credit (CITC):** Up to \$30 million on eligible capital equipment, acquired for use in Nova Scotia, can be claimed as a refundable corporate income tax credit.
- **Strategic Innovation Fund:** Repayable and non-repayable contributions to projects for firms of all sizes in Canada's industrial and technology sectors.
- **Payroll Rebate:** Return on a company's eligible gross payroll, based on performance.
- **Industrial Research Assistance Program:** NRC provides advice, connections, and funding to help small and medium-sized businesses increase their innovation capacity and take ideas to market.
- **Accelerated Investment Incentive:** 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.

Learn more at [novascotiabusiness.com/cleantech](https://novascotiabusiness.com/cleantech)

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