

Canada's New Economic Engine

Modelling Canada's EV battery supply
chain potential - and how best to seize it

October 12, 2022



New research and industry-led work to advance Canada's battery advantage

1

Battery Supply Chain Report - Quantify Canada's battery opportunity and identify where we're best poised to compete

2

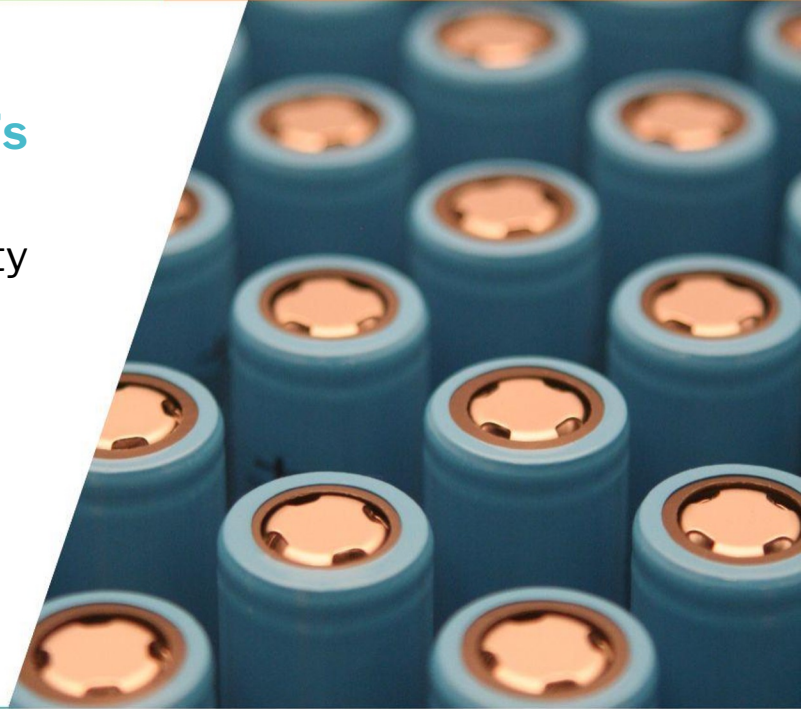
Canadian Battery Taskforce Blueprint - Build a plan to fully unlock it



New research on the size of the battery prize and what is needed to unlock it

CEC partnered with Trillium Network for Advanced Manufacturing to look at Canada's EV battery supply chain to:

1. Quantify job potential and economic opportunity at each stage of by 2030
2. Highlight Canada's top opportunities
3. Identify the measures most needed to unlock opportunities at each of those stages (e.g. investment, talent, land).



Canada's battery opportunity is significant but requires government action

Scenario 1: Existing investments

- **60,000** direct + indirect jobs
- **\$12 billion** direct + indirect GDP

VS

Scenario 4: Smart, fast government action

- **250,000** direct + indirect jobs
- **\$48 billion** direct + indirect GDP

Potential Direct and Indirect GDP by Battery Supply Chain node Scenario



Areas with greatest potential for Canada



1

EV assembly



2

Cell
manufacturing



3


Clean, integrated
battery materials
industry

Canada's work to-date

Canada has the ingredients needed to build a successful battery industry, and has made good progress to-date:

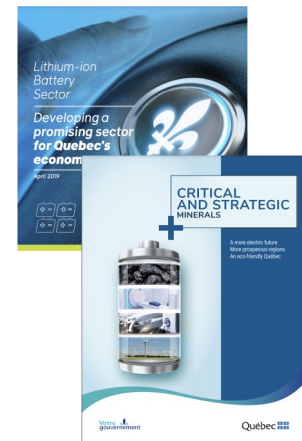
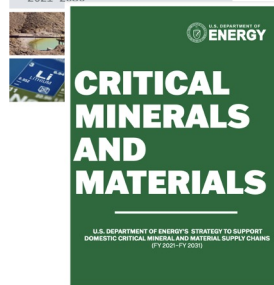
- \$3.8 billion & Centre for Excellence for Critical Minerals Strategy & R&D
- \$8 billion for the Net Zero Accelerator Fund-battery innovation and industrial ecosystem stream
- 50% corporate tax incentive for zero-emission technologies
- 100% zero-emission vehicle sales mandate by 2035 commitment

SELECT CANADIAN EV BATTERY SUPPLY CHAIN INVESTMENTS 2020-JUNE 2022

	COMPANY	LOCATION	VALUE
 EV Assembly	Ford	Oakville, ON	\$1.8B
	General Motors	Ingersoll, ON	\$1B
	Stellantis	Windsor, ON / Brampton, ON	\$3.6B
	Nova Bus	St. Eustache, QC	\$185M
 EV Battery	Lion Electric	Mirabel, QC	\$185M
	Stellantis-LG	Windsor, ON	\$5B
 Battery Materials	General Motors-POSCO	Bécancour, QC	\$500M
	BASF	Bécancour, QC	Undisclosed
	Nouveau Monde Graphite	Bécancour, QC	\$15M
	Electra Battery Materials	Cobalt, ON	\$84M
 Battery Components	Solus Advanced Materials	Bécancour, QC	\$450M
	Magna	St. Thomas, ON	\$50M
 Battery Recycling	Lithion Recycling	TBD, QC	\$125M

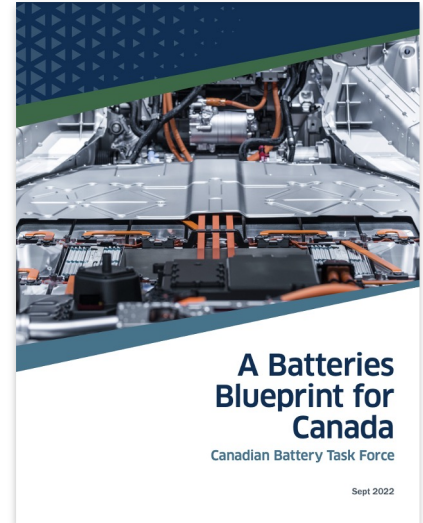
To achieve maximum impact, a consistent playbook has emerged

The most successful jurisdictions in securing battery investments (US, EU, QC) — have all developed a critical mineral strategy and a **public-facing battery plan** that channels government and private action and investment into **key areas**.



Industry support for a batteries blueprint

Canadian Battery Task Force: experts from across the supply chain



Developed priorities that can form the basis of a public-facing plan = **A Batteries Blueprint for Canada**

Track the energy transition

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For follow-up questions,
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