GREEN BATTERY PRODUCTION AND RECYCLING IN KINGSTON



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ELECTRIC BATTERY PLANT IN LOYALIST TOWNSHIP

Prime Minister Trudeau, alongside Minister of Innovation, Science, and Industry, François-Philippe Champagne, recently announced a deal between Ottawa and the Province of Ontario with Umicore to supply batteries for one million electric vehicles a year. The global metals refiner is building a new battery materials facility in Loyalist Township which will be able to supply electric batteries for one million electric vehicles each year. As the first of its kind in North America, this industrial-scale manufacturing plant will create thousands of jobs during its construction, hundreds of jobs upon its completion, and will help us meet our climate goals on time.

GREEN PRODUCTION

The \$1.5 billion dollar plant, which builds cathode active materials (CAM) and precursor cathode active materials (pCAM), will start construction in 2023, coming online in 2025. The plant will have the capacity to build enough batteries for one million electric vehicles per year. That equates to roughly 20% of the North American EV market by 2030.

While Umicore is not a household name, it is expanding its presence in North America. As the demand for EVs grows, and the momentum shift towards a zero-emission economy continues, Canada is working diligently to ensure its place in the EV battery supply chain. This move will help shift the automotive industry towards manufacturing electric vehicles as the top choice for Canadians.

This investment will create jobs, cut pollution, and build a stronger, cleaner economy for Canadians all while producing the batteries that will power the vehicles of the future.



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LI-CYCLE KINGSTON

Do you know what happens to electric vehicle (EV) batteries at the end of their life cycle? The answer is likely that they end up at Li-Cycle. Nearly all lithium batteries recycled in Canada end up at Li-Cycle Kingston where they are turned into reusable materials that would otherwise be mined for new products. The Ontario Spoke is a fully operational lithium-ion recycling facility that has a processing capacity of 5,000 tonnes of lithium-ion batteries and battery manufacturing scrap per year.

As part of their two step process, the facility produces critical materials like cobalt sulfate, lithium carbonate, and nickel sulfate from black mass. The technology used in this production has been developed to ensure minimal environmental impact with zero wastewater, no direct emissions, and no landfill. All of this housed in a state-of-the-art facility with top safety and security measures for employees.

Li-Cycle's commercial plants across North America are committed to the safe processing of these materials without landfill waste, minimal GHGs, and reduced C02 emissions. This enables the company to support the global transition towards electrification.



VISITING THE FACILITY

In August, I was granted the privilege of visiting Li-Cycle to learn about the recycling of lithium-ion batteries. Founded in 2016 right here in Kingston, the company has produced 30 permanent local jobs. As part of its operations, it recovers up to 95% of non-renewable battery materials. Impressively, approximately 74% of CO2 emissions are offset compared to the mining/refining of one tonne of battery materials.

For a short video on Li-Cycle Spoke & Hub Technologies manufacturing and recycling process, scan the QR code:



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