

# Chemistry and plastics vital to automotive's low-carbon, electric future.

The Government of Canada has set a mandatory target for all new light-duty cars and passenger trucks to be **zero-emission by 2035**. With high demand in China, Europe and the U.S., much of the developed world is looking to make the transition to zero-emission vehicles to battle climate change.

Sales in electric vehicles are experiencing explosive growth with a compound annual **growth rate of over 20%** expected to continue through to 2030. Thanks to a supply of critical minerals, skilled workers and automotive manufacturing infrastructure, Canada has the opportunity to capitalize on this exciting transition.



**Did you know?**  
Chemistry and plastics provide the vital inputs to electric vehicle production.

## MINING

Chemistry enables more efficient mineral extraction, separation and processing that improves recovery and sustainability. Our members such as Solvay, Glencore, ERCO Worldwide and National Silicates make the chemistry products used in mining.



## PLASTICS

The chemistry and plastics sector enable the auto industry to make safer, lighter, quieter, and more fuel-efficient vehicles. Today's cars on average are made of about 50% plastic by volume but only 10% by weight.



Our members like BASF and Dow make lightweight materials such as Carbon Fiber Reinforced Plastic composites, possible. These materials reduce a vehicles' impact on the environment because they offer a high strength-to-weight ratio, making vehicles lighter and more fuel efficient.

## BATTERY COMPONENTS

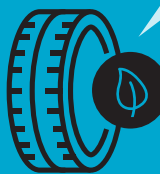
Demand for lithium-ion batteries is expected to be fierce in the coming years. Our members like BASF, CCC Sulphur Products, ERCO Worldwide and Glencore make the chemicals for these batteries.

In 2022, BASF announced its plans for a future cathode active materials and recycling site in Bécancour, Quebec, a critical element to the EV supply chain. The site will also be well connected to BASF's global metal sourcing network with provision for a nickel and cobalt intermediates base metal refinery and recycling of all battery metals, including lithium.



## RUBBER

Better tires allow for more efficiency on the road. Our members like ARLANXEO, Cabot Canada and National Silicates are continually improving the processes and products to make them more sustainable and efficient.



**#chemistrysolutions**

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