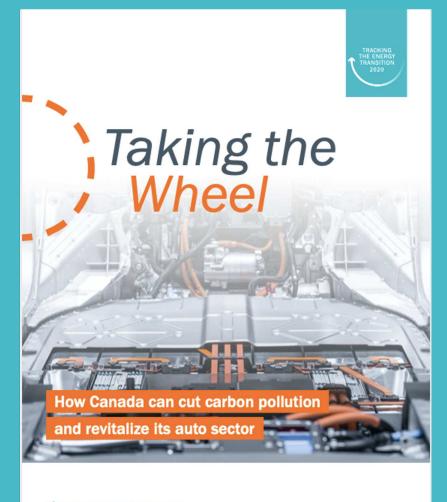
CLEAN ENERGY CANADA February 2021



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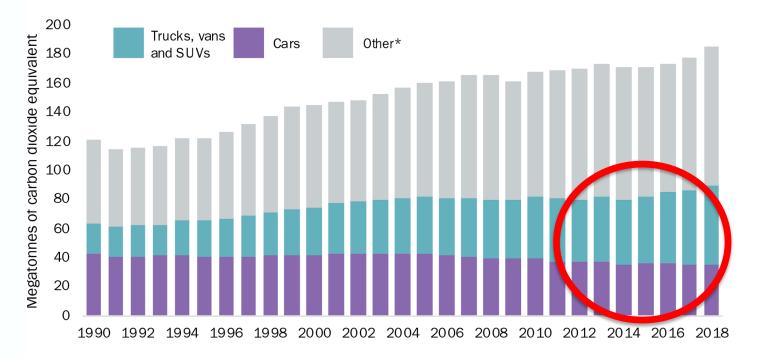
December 2020





Canada's Car Conundrum: Transportation emissions are up

TRANSPORTATION SECTOR EMISSIONS IN CANADA

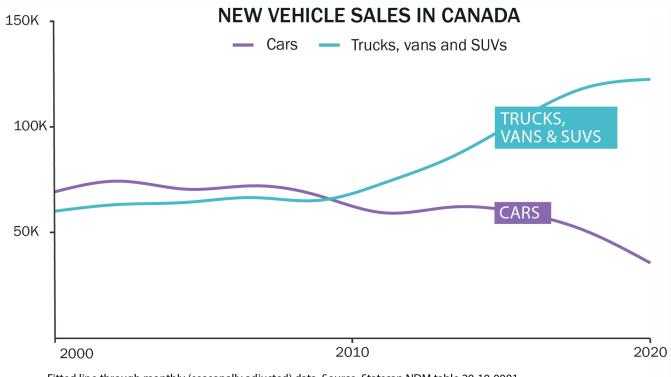


*Includes freight (rail, domestic aviation, maritime, heavy-duty trucks) and other passenger transport (motorcycles, bus, rail and domestc aviation).

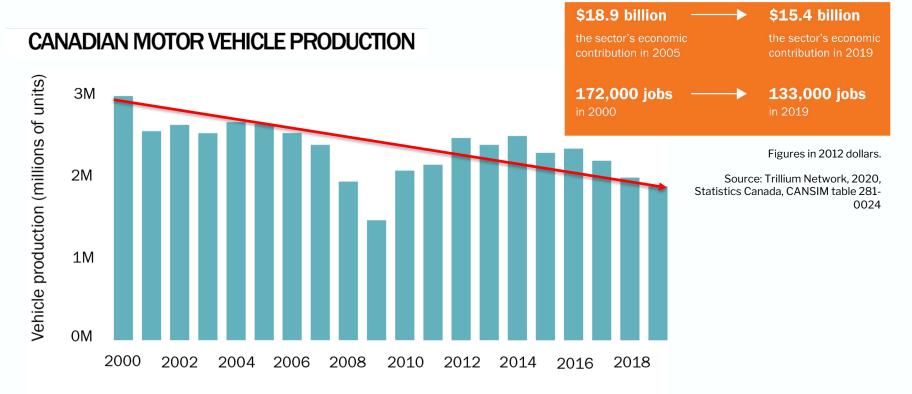
Source: Government of Canada. 2020



Canada's Car Conundrum: Transportation emissions are up



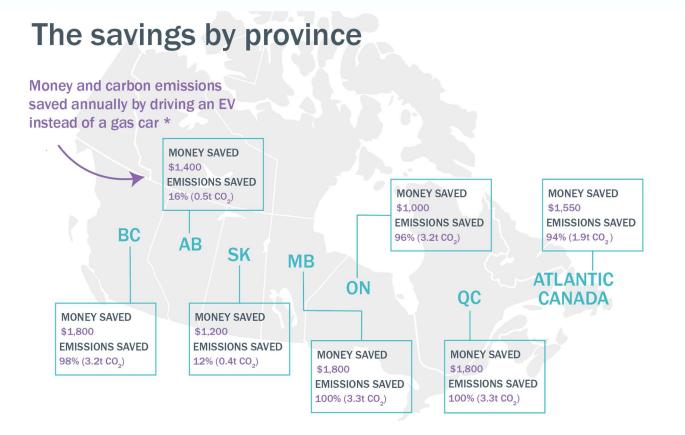
Canada's Car Conundrum: Auto manufacturing is down



Source: Trillium Network, 2020 / Automotive News, various years



The Electric Opportunity: Cost and GHG savings

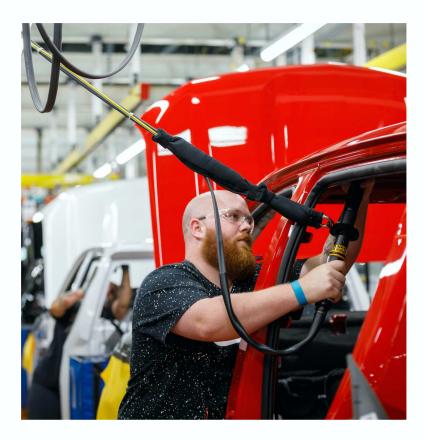


Data source: The Canadian Energy Regulator, 2020; the Government of Canada, 2020; Natural Resources Canada, 2020.

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The Electric Opportunity: The Canadian advantage



- **1. RESOURCES** rich in metals and minerals needed to build EVs
- 2. **BATTERIES** pioneering research and labs, battery providers for cars, ferries, fork-lifts
- **3. INNOVATION** leading automation and robotics companies, technology design
- 4. MANUFACTURING electric bus and truck companies, strong auto parts supply chain



The Global Race to Electrify: Worldleading policies

Jurisdiction		Purchase incentives	Charging investments	Strong emission standards / ZEV standard / ICE ban	Auto strategy / manufacturing incentives
U.K.		\checkmark	\checkmark	\checkmark	\checkmark
Germany		\checkmark	\checkmark	\checkmark	\checkmark
France		\checkmark	\checkmark	\checkmark	\checkmark
China	*:	\checkmark	\checkmark	\checkmark	\checkmark
California	CALIFORNIA REPUBLIC	\checkmark	\checkmark	\checkmark	\checkmark



A Clean Cars Package for Canada

DEMAND-SIDE

- Carbon pricing: Increases the price of fuel that generates carbon pollution
- Financial incentives for new and used zero-emission vehicles, targeting lower- and middle-income Canadians: Reduces the upfront cost of EVs
- Public charging: Increases access for charging away from home
- EV-ready building code requirements: Requires charging in new buildings
 - Right-to-charge requirements: Provinces should ensure residents of multi-unit buildings have the right to install their own EV charging stations

SUPPLY-SIDE

- Zero-emission vehicle standard: Requires automakers to sell a minimum number of EVs
- Vehicle emission standards: Requires improvements in fuel efficiency and reductions in vehicle emissions for each model year
- Clean fuel standard: Requires fuel suppliers to reduce the carbon intensity of the fuels they sell and provides credits for alternative fuels such as electricity and hydrogen
- Incentives for existing manufacturers and new zero-emission manufacturers: Attracts EV manufacturing through direct funding, tax breaks, or other measures
- Incentives to attract new manufacturers in the supply chain: Attracts battery and other supply chain manufacturing through direct funding, tax breaks, or other measures



Provincial policy



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For follow-up questions, contact:

Merran Smith, Executive Director merran@cleanenergycanada.org

Sarah Petrevan, Policy Director sarah@cleanenergycanada.org

Joanna Kyriazis, Senior Policy Advisor joanna@cleanenergycanada.org

