British Columbia faced many challenges in 2020 due to the COVID-19 pandemic, and our government has addressed impacts across the province while remaining committed to our CleanBC goals. This report tracks British Columbia’s progress respecting our zero-emission vehicle targets as we shift to a greener economy and is the first report required under the Zero-Emission Vehicles Act implemented in 2019.

In September 2020, we released our StrongerBC economic recovery plan to outline our steps to build back a better B.C. while recommitting to fighting climate change. Our StrongerBC plan included support for measures we’re taking, including the transition to zero-emission vehicles (ZEVs).

Through StrongerBC, we added $31 million in funding for double the rebates to businesses adopting medium- and heavy-duty commercial ZEVs through our Specialty-Use Vehicle Incentive program and offered stronger support in our hard-hit tourism industry, with even higher rebates for tourism businesses.

To help British Columbians make the switch to clean transportation, we added more in rebates in 2020 for charging infrastructure so people can charge their EVs at home or at work. We continued to add public EV charging and hydrogen fuelling stations to our ever-expanding network across the province, and B.C. is now home to one of the largest EV charging networks and to the first cluster of hydrogen-fuelling stations in Canada.

B.C. is quickly becoming a leader in the ZEV industry. In 2020, B.C. had the highest uptake of ZEVs in North America. New ZEV sales averaged 9.4% over the year despite the pandemic, and with more British Columbians choosing ZEVs, we’re investing in the supports needed to meet the increasing demand for ZEVs on B.C. roads while moving toward our CleanBC goals. The 2020 ZEV Update report that follows makes it clear that British Columbians are eager to Go Electric.

Honourable Bruce Ralston
Minister of Energy, Mines and Low Carbon Innovation
ZEV MARKET HIGHLIGHTS

With the Go Electric Program and Zero-Emission Vehicles Regulation, we're getting more zero-emission vehicles (ZEVs) on the road in B.C. We're working on:

- Bringing down the price of ZEVs.
- Making it easier to charge or fuel a ZEV.
- Supporting research, jobs training and economic development in B.C.'s ZEV sector.
- Increasing availability of ZEVs for British Columbians.

British Columbia is leading the charge for electric vehicles.

- In 2020, light-duty ZEV sales represented 9.4% of all new light-duty vehicle sales in B.C.¹
- 54,469 light-duty ZEVs registered in B.C. as of December 30, 2020.²
- At the end of 2020, there were over 2,500 public charging stations in B.C.
- In 2020, B.C. had the highest uptake rates of ZEVs in North America.
- B.C. has one of the largest public charging networks and the first cluster of public hydrogen fuelling stations in Canada.

British Columbia Light-Duty ZEV Registration Totals

1 Based on IHS Markit New Registration Data (Year End 2020) for the Province of British Columbia and IHS Markit’s definition of Light Vehicles which excludes Medium and Heavy Trucks and vehicles greater than 8500 GVW.
2 Based on IHS Markit Units in Operation Registration Data as of December 30 2020 (Model Years 1981 and Newer) for the Province of British Columbia.

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ZERO-EMISSION VEHICLE TARGETS

B.C. became the first jurisdiction in the world to legislate a 100% ZEV sales requirement. The Zero-Emission Vehicles Act (ZEV Act), passed on May 30, 2019, requires automakers to meet ZEV sales targets reaching 10% of new light-duty vehicle sales by 2025, 30% by 2030, and 100% by 2040. The legislation aims to ensure a greater availability of ZEVs at more affordable prices in B.C.

We are well on our way to exceeding the 2025 ZEV sales targets. In 2020 there were 15,451 new new ZEV's registered in B.C., which represented 9.4% of all new light-duty vehicle registrations in B.C.¹

British Columbia Light-Duty Vehicle ZEV Sales Rates¹

1 Based on IHS Markit New Registration Data (Year End 2020) for the Province of British Columbia and IHS Markit’s definition of Light Vehicles which excludes Medium and Heavy Trucks, and vehicles greater than 8,500 GVW.
VEHICLE REBATES

Number of Light-Duty Vehicle Rebates by Year

HIGHLIGHTS
- As of December 2020, the Province provided 33,456 light-duty EV rebates since April 2015.
- The Specialty-Use Vehicle Incentive (SUVI) Program distributed 547 rebates since its relaunch in November 2017.
- The SUVI Program added a new $1,700 rebate category for cargo e-bikes.

Number of SUVI Rebates by Year

TOP 5 LIGHT-DUTY ZEVS TO RECEIVE REBATES IN 2020
- Tesla Model 3
- Hyundai Kona
- Toyota Prius Prime
- Mitsubishi Outlander PHEV
- Chevrolet Bolt
**COMMERCIAL VEHICLES**

As a part of StrongerBC, B.C.’s Economic Recovery Plan, $31 million in additional funding was allocated to the Specialty Use Vehicle Incentive Program in September 2020. This funding doubles the maximum rebates for medium and heavy-duty vehicles available for B.C. businesses, local and regional governments, public sector organizations and non-profit organizations. Those purchasing eligible vehicles have access to 33% of the cost, up to a maximum of $100,000 per vehicle, up from the previous $50,000 maximum. Eligible tourism operators can receive double the rebates and access 66% of the cost of an eligible medium or heavy-duty vehicle up to a maximum of $100,000 per vehicle.

Eligible tourism operators can receive double the rebates and access 66% of the cost of an eligible medium or heavy-duty vehicle up to a maximum of $100,000 per vehicle.

*Commercial vehicles include on-road and off-road medium, heavy-duty trucks, vans, buses, marine vessels, port, airport equipment, etc.*

**FLEETS PROGRAM**

The Go Electric Fleets Program offers rebates for the purchase and installation of level 2 and direct-current fast-charging stations for fleets of one or more EVs. Eligible businesses and municipalities can access other Fleets Program offers, including up to 40 hours of free support services from a ZEV fleet advisor. The support services include consultations, educational sessions and technical assessments for charging infrastructure upgrades and equipment.*

*The Fleets Program was launched in early 2021.*

Westcoast Sightseeing received rebates through the SUVI Program for their electric buses. They have a goal of becoming Canada’s first sightseeing company with 100% electric vehicles.
As of the end of 2020, there was a network of 3 public hydrogen fuelling stations for light-duty vehicles in B.C., with 3 more planned by the end of 2021. The Province allocated $10 million to the construction and operation of 10 hydrogen fuelling stations in B.C., as well as three years of support for Hydrogen BC. Hydrogen BC is a new provincial partnership that will co-ordinate stakeholders in the sector to promote and accelerate the use of hydrogen technologies in B.C., including fuelling stations and vehicles.
PUBLIC CHARGING & FUELLING INFRASTRUCTURE

Public Fast-Charging Station Growth

There were 205 public DC fast charging sites, 16 of which were Tesla SuperCharger, at the end of 2020 in B.C. Some DC fast charging sites have multiple stations per site.

<table>
<thead>
<tr>
<th>CHARGER TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE CCS</td>
<td>A type of connector for charging an EV at a public fast charger, mostly associated with American-brand EVs.</td>
</tr>
<tr>
<td>CHAdeMO</td>
<td>A type of connector for charging at a public fast charger, mostly associated with Japanese-brand EVs.</td>
</tr>
<tr>
<td>Dual Standard</td>
<td>A station that has both a CHAdeMO and SAE CCS connector. Public fast charging stations being deployed in B.C. are largely dual standard. All EVs with fast-charging capability can charge at these stations (including Teslas with an adapter).</td>
</tr>
<tr>
<td>Tesla Supercharger</td>
<td>Tesla-specific connector for fast charging stations. Only used by Tesla vehicles.</td>
</tr>
</tbody>
</table>
The network of public fast-charging and hydrogen fuelling stations is expanding along B.C.’s primary and secondary highway systems, major roads, and in community centres. The Ministry is working with its partners to support a network that will allow safe and convenient travel in an EV throughout B.C. Our public infrastructure planning is informed by the 2018 study, "British Columbia Direct Current Fast Charging (DCFC) Network Study: Core Network for Geographic Connectivity."
EV CHARGER REBATES

The CleanBC EV Charger Rebate Program was created to help with the upfront costs that come with EVs. Homeowners can get up to a $350 (temporarily increased to $700*) CleanBC rebate to install a Level 2 charging station in a single-family home. Up to a $2,000 (temporarily increased to $4,000*) rebate is available for the installation of a Level 2 charging station designed for multiple users in condominiums, apartments and workplaces. Up to five hours of free support services from an EV charging station advisor are also available for condominiums, apartments and workplaces seeking to address their EV charging needs.

Starting in December 2020 a new offering, EV Ready rebates, was added to the EV Charger Rebate Program. The offer provides rebates for apartment and condo buildings to complete an EV Ready plan, install electrical infrastructure to implement the EV Ready plan and install charging stations. Up to $97,000 in rebates per apartment or condo is available.

* Rebate amounts were temporarily increased to align with the Province’s StrongerBC economic recovery plan to help B.C. businesses and organizations that have been impacted by COVID-19.

### Home & Workplace EV Charger Rebate Program Statistics (January to December 2020)

- **2,468** Home EV charging stations installed.
- **377** Multi-unit residential building (MURB) EV charging stations installed.
- **301** Workplace EV charging stations installed.
- **90** Site visits and virtual presentations completed by an EV Adviser to workplaces & MURBs.
EMLI has partnered with the Electrical Joint Training Committee (EJTC) to provide funding for Red Seal Electricians in B.C. to complete the Electric Vehicle Infrastructure Training Program (EVITP). This training program provides certification and training for electricians installing EV charging infrastructure. In 2020, EJTC worked with EMLI to develop new educational resources for B.C. electricians installing EV charging infrastructure and increased outreach and awareness activities for the EVITP.

HIGHLIGHTS

Red Seal Automotive Service Technicians can now register for the new Electric Vehicle Maintenance Training Program available through the British Columbia Institute of Technology (BCIT). The course was developed with funding from the CleanBC Go Electric Program. In 2020, a total of 24 automotive technicians completed the program.

EVs are leading the way in creating good jobs and economic growth.

The Pacific Institute for Climate Solutions (PICS), call for proposals under the Opportunity Project Program in 2020 included a special one-off opportunity for a Zero-Emission Vehicles (ZEV) Project. $180,000 in funding was provided by the CleanBC Go Electric Program to support collaborative research efforts to develop a highly skilled workforce and increase technology development in B.C.

192
Electricians trained through the Electric Vehicle Infrastructure Training Program in B.C.

36
Automotive technicians completed the Electric Vehicle Maintenance Training Program.
The Advanced Research and Commercialization (ARC) Program supports B.C.’s zero-emission vehicle sector by providing reliable and targeted support for research and development, commercialization and demonstration of B.C.-based zero-emission vehicle technologies, services and products. The ARC Program issued its second funding call in 2020.

Eligible ARC activities:

- Pre-commercial research and development of a B.C.-based product, service or technology.
- Commercialization of a B.C.-based product, service or technology including investments in manufacturing facilities or processes.
- Use or demonstration of a B.C.-based product, service or technology.

The ZEV sector is delivering jobs and significant economic opportunities, including, as of 2019:

- An estimated 250 companies and organizations involved in all aspects of the supply chain, up from 198 in 2015;
- Direct employment of more than 6,000 full-time equivalent positions associated with ZEV-related activities, up from 3,850 in 2015;
- Over $1 billion in total economic output, up from $702 million in 2015; and
- Over $600 million in direct contribution to provincial GDP, up from $373 million in 2015.

HIGHLIGHTS

The Province’s Community Outreach Incentive Program provides funding to communities and non-profit organizations in B.C. to deliver EV outreach activities and events. 2020 incentives support all regions of B.C. with continued outreach activities. Funding is supporting 12 projects with the development of content for virtual presentations, school lessons, and social media, and will deliver approximately 10 new videos.

2020 Outreach

During 2020, outreach activities shifted to focus on the development of online educational material and content. In partnership with Natural Resources Canada and the Province, a number of new videos about driving an EV in B.C. in the winter were developed, along with new translated material in French, Punjabi, Cantonese and Mandarin. 20 videos were published over the course of 2020, and received over 9,500 views.

10 Supported events (both in-person and online).

22 Ride n’ Drives completed.

20 Outreach videos were created.

To learn more about Emotive, visit www.emotivebc.ca or follow them on Instagram, Facebook or YouTube.
OTHER ZEV DATA

Light-duty ZEVs Registered in B.C.²

<table>
<thead>
<tr>
<th>Region</th>
<th>ZEV Registrations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cariboo</td>
<td>141</td>
</tr>
<tr>
<td>Kootenay</td>
<td>382</td>
</tr>
<tr>
<td>Lower Mainland-Southwest</td>
<td>40,469</td>
</tr>
<tr>
<td>Nechako</td>
<td>25</td>
</tr>
<tr>
<td>North Coast</td>
<td>67</td>
</tr>
<tr>
<td>Northeast</td>
<td>73</td>
</tr>
<tr>
<td>Thompson-Okanagan</td>
<td>2,613</td>
</tr>
<tr>
<td>Vancouver Island &amp; Coast</td>
<td>10,376</td>
</tr>
<tr>
<td>Other</td>
<td>323</td>
</tr>
</tbody>
</table>

² Based on IHS Markit Units in Operation Registration Data as of December 30 2020 (Model Years 1981 and Newer) for the Province of British Columbia.

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## GLOSSARY

<table>
<thead>
<tr>
<th>ACRONYM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZEV</td>
<td>Zero Emission Vehicle - used interchangeably with &quot;ZEV&quot;, and includes BEVs, FCEVs, EREVs, and PHEVs.</td>
</tr>
<tr>
<td>DCFC</td>
<td>Direct Current Fast Charger - the public fast chargers that today allow EVs to get 100 - 300km in 30 minutes of charging (but faster chargers giving more range in less time are coming out every year).</td>
</tr>
<tr>
<td>EV</td>
<td>Electric Vehicle - used interchangeably with &quot;ZEV&quot;, and includes BEVs, FCEVs, EREVs, and PHEVs.</td>
</tr>
<tr>
<td>BEV</td>
<td>Battery Electric Vehicle - powered 100% with electricity.</td>
</tr>
<tr>
<td>FCEV</td>
<td>Fuel Cell Electric Vehicle - powered 100% with hydrogen.</td>
</tr>
<tr>
<td>EREV</td>
<td>Extended Range Electric Vehicle - has an electric motor and battery, but the battery is recharged with a combination of electricity and gas.</td>
</tr>
<tr>
<td>PHEV</td>
<td>Plugin Hybrid Electric Vehicle - has both an electric motor powered by electricity from a battery and a gas engine fueled by conventional gas.</td>
</tr>
<tr>
<td>EVSE</td>
<td>Electric Vehicle Supply Equipment - an industry term for charging stations.</td>
</tr>
<tr>
<td>SUVI</td>
<td>Specialty-Use Vehicle Incentive - &quot;specialty-use&quot; in the CleanBC Go Electric programs is the term we use for anything that is not a car or light-duty truck (bikes, buses, delivery vans, transport trucks, ferries, etc.).</td>
</tr>
</tbody>
</table>

To learn more about EV programs, visit [www.gov.bc.ca/zeroemissionvehicles](http://www.gov.bc.ca/zeroemissionvehicles).

To find CleanBC GoElectric rebates, visit [https://goelectricbc.gov.bc.ca](https://goelectricbc.gov.bc.ca).
THANK YOU TO OUR PARTNERS

Thank you to all the electric vehicle associations, local governments, academic institutes, original equipment manufacturers, industry associations, infrastructure vendors and installers, and other organizations completing electric vehicle work for continuing to support the adoption of electric vehicles in B.C. and contributing to the implementation of electric vehicle policies and programs.