

Clean Go Electric Advanced Research and Commercialization Program – List of Funded Projects

Funding Call	Proponent Name	Project Name	Project Status	Project Description	Vehicle Category	ZEV Sub-Section	Fuel Type	Primary Location	Provincial Funding Amount Committed
ARC 2018	IRDI Systems Inc.	CAN-SAEJ2799 Controller	Completed	Developed and commercialized the CAN-SAEJ2799 controller. The CAN-SAEJ2799 controller will allow trucks and buses to utilize hydrogen filling more effectively.	Off-Road	Vehicle components	H2*	Richmond	\$54,990
ARC 2018	Canadian Electric Vehicles (CANEV)	Might-E Truck – Product Enhancement and Diversification	Approved	Release the next generation of the Might-E Truck Low Speed Vehicle (LSV).	On-Road	Vehicles	Electric	Parksville	\$296,610
ARC 2018	AVL	Integrated Fuel Cell Performance, Degradation & Cost Model for Automotive Series Development Applications	Completed	Developed a simulation tool that provides an accurate measure of fuel cell degradation, cost, and performance.	On-Road	Testing and certification services	H2*	Burnaby	\$146,750
ARC 2020	IRDI System Inc.	Passenger Vehicle IR Tx and Diagnostic Receiver	Approved	Aims to develop an infrared (IR) transmitter used for hydrogen filling in passenger vehicles. The project will also develop a handheld diagnostic IR receiver. The project will include mechanical design, electrical hardware design, software development, prototype build and testing.	On-Road	Vehicle components	H2*	Richmond	\$72,940

ARC 2020	Powertech Labs Inc.	Medium/Heavy-Duty Dispenser Design for Gaseous Hydrogen Vehicles	Approved	Develop a B.C.-based hydrogen quality testing service—the first in Canada. With this project Powertech will become the only gas testing lab in Canada certified to the SAEJ2719 standard.	On-Road	Fuelling Infrastructure	H2*	Surrey	\$394,201
ARC 2020	Ballard Power Systems	Fuel Cells for Heavy Duty Zero Emission Trucks: A Made in BC Clean Transportation Solution	Approved	Develop the next generation of cost-effective, high-power density fuel cell membrane electrode assemblies (MEAs) designed for zero-emission heavy-duty vehicles. The project will develop new tools, methods, and models centred around oxygen/water vapor transport resistance and gas diffusion layer (GDL) thermal/electrical resistance for pre-commercial research and development.	On/Off Road	Vehicle components	H2*	Burnaby	\$325,000
ARC 2020	Damon Motors Inc.	Modular EV Powertrain Platform	Approved	Design a multi-capacity powertrain system that can be digitally power reduced. The project will include validation of energy density and power delivery in a small multi-purpose form factor, optimization of a controlled thermal runaway management system for high density battery packs, and validation of a proven high-density battery interconnect manufacturing technique.	On-Road	Vehicle components	Electric	Vancouver	\$400,000

ARC 2020	HTEC	Hydrogen Back-Up-Dispenser ("BUD")	Completed	Developed a Back Up Dispenser ("BUD") for fuelling hydrogen fuel cell vehicles. The BUD module was produced, located, and used in B.C. to support the network of hydrogen fuelling stations being developed in the province. The product is ready for commercialization and distribution to the global market.	On/Off Road	Fuelling Infrastructure	H2*	North Vancouver	\$100,000
ARC 2020	Harbour Air Seaplanes LLP	Electrification of the DHC - 2 Mk1 De Havilland Beaver	Approved	Convert an existing piston DHC-2Mk1 De Havilland Beaver aircraft to be fully electric powered, resulting in one certification level prototype aircraft.	Aviation	Vehicles	Electric	Richmond	\$1,595,000
ARC 2020	Gregory C. Marshall Naval Architect Ltd.	40 ft Electric Utility Catamaran Demonstration Project	Approved	Develop, construct, and demonstrate a high efficiency low weight zero-emission catamaran.	Marine	Vehicles	Electric	Victoria	\$948,227
ARC 2020	Grin Technologies Ltd.	Scale Up of Grin's All Axle Electric Motor Building on Success to Capture Market Potential	Completed	Scaled up manufacturing facility and processes to meet market demand for the Front All-Axle Light Electric Vehicle motor.	On/Off Road	Vehicle components	Electric	Vancouver	\$348,333
ARC 2020	Core Energy Recovery Solutions Inc. (dPoint Humidifiers)	Robust, Low-Cost Humidifier Components for Hydrogen Fuel Cell Electric Vehicle Applications	Approved	Develop a next generation humidifier for automotive fuel cell systems.	On/Off Road	Vehicle components	H2*	Vancouver	\$389,638

ARC 2020	Moment Energy Inc.	100kWh Repurposed Electric Vehicle Battery Pack for a Diesel Dependent BC Community	Approved	Develop an energy storage system made from repurposed EV batteries. Moment submitted a project initiation report in October.	On/Off Road	Vehicle components	Electric	Port Coquitlam	\$320,000
ARC 2020	Capilano Maritime Design Ltd.	H2FC Cruise Vessel	Completed	Designed a hydrogen fuelled harbour cruise boat.	Marine	Vehicles	H2*	North Vancouver	\$178,145
ARC 2020	Ionomr Innovations Inc.	Advanced Ion Exchange Membranes for Hydrogen Fuel Cell Vehicles and Hydrogen Production-Pilot Manufacturing and Testing for Continued Commercialization	Completed	Continued the development and commercialization of advanced ion exchange membranes.	On-Road	Vehicle components	H2*	Vancouver	\$205,780
ARC 2020	Zen and the Art of Clean Energy Solutions	Enhancement of Zero-Emission Vehicle Route Energy Modelling Tool	Approved	Zen has created a proprietary physics-based model in Excel which predicts the performance of battery electric and fuel cell electric buses. Zen plans to further develop the model and improve its accuracy.	On-Road	Transferable Technologies	Electric	Vancouver	\$133,526
ARC 2020	Delta-Q Technologies Corp.	High Voltage Charger for Commercial and Industrial Electric Vehicles	Completed	Developed a high power and high voltage onboard battery charger for commercial and industrial EVs.	On/Off Road	Vehicle components	Electric	Burnaby	\$300,000

* H2 refers to hydrogen fuel