Innovation in Clean Transportation

Advantages and Specializations in the Metro Vancouver Region

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Sector Highlights

60 Firms

Operating in the region

2,800+ Employees

Median firm employment: 21

\$2.6 Billion+ Invested

From 2017 to 2021

Anchored by a world-leading hydrogen cluster, these firms are scaling-up across many clean transportation specializations:



Alinker, AVL Fuel Cell Canada Inc., Ballard Power Systems, Blue-O Technology, cellcentric, Corvus Energy, Damon Motorcycles, ElectraMeccanica Vehicles, FTXT Energy Technology, FVT Research, GreenPower Motor Company, Grin Technologies, Ionomr Innovations, Loop Energy, Molicel, Nano One Materials, Rivian, Robert Allan Naval Architects and Marine Engineers, Sandvault, Unilia Fuel Cells, VeloMetro Mobility



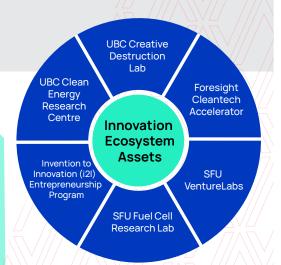
AddEnergie Technologies, Analytics Systems, Consolidated Biofuels, Daanaa Resolution, Delta-Q Technologies, Ekona Power, Electrum Charging Solutions, Enbala, EverGen Infrastructure, G4, Greenlane Renewables, Greenlight Innovation, HTEC Hydrogen Technology and Energy Corporation, Hydra Energy, Hydrogen in Motion, IRDI System, Lab 498 Products/VoltSafe, Palcan Power Systems, Parkland Fuels, Powertech Inc, Quadrogen, Recharged Technologies, Shift Clean Energy, Tandem Technologies, West Coast Reduction, Westport Fuel Systems

The definition of the definiti

Transferable Technologies & Services

7 Generation Capital, Breeze Traffic, Freightera, Greenline Technologies, Liftango, LOOPShare, Mojio, Plugzio, Poparide, Routific, Spare, Uplight, VuLog

Firms identified in green are within the hydrogen cluster.



Metro Vancouver's clean transportation sector

is buoyed by world-renowned research institutions and universities, sector-specific accelerators, and a supporting incentive and regulatory environment. Firms across the clean transportation industry value chain say their top reason for locating in the region is the access to a deep pool of talent across the educational attainment continuum. The Metro Vancouver region has identified labour concentrations in the occupational categories:

- Mechanical Systems Engineers
- Infrastructure Team Leads
- Fuel Systems Engineers
- Test Engineers
- Research Scientists/ Engineers
 Source: EMSI 2021.1

By 2050, clean hydrogen will make up as much as 25% of our net-zero energy mix, generating a **\$20 trillion** infrastructure investment opportunity. - Bloomberg New Energy Finance (2020)

Capital Investment in Clean Transportation (2017-2021)

Investment in Firms Headquartered in the Region

Year	\$invested (millions)	Deal count
2017	94	22
2018	271	7
2019	102	19
2020	663	21
2021	1,536	16
Source: Pitchbook 2021		

Sector Support

- B.C. Hydrogen Strategy is setting the course for B.C. to be a world leader in the growing hydrogen economy
- Scientific Research and Experimental Development (SR&ED)
 tax programs to encourage Canadian businesses of all sizes and
 in all sectors to conduct research and development (R&D)
 in B.C. and Canada
- B.C. Low Carbon Fuel Standard provides a financial incentive for low carbon fuel use. This generates revenue for low carbon transportation fuel suppliers and supports investment in clean fuels and vehicles

Where People Are Investing67%Low & Zero Emission Vehicles
& Components29%Renewable & Low Carbon Fuels &
Charging Infrastructure4%Transferable Technologies and Services
Source: Pitchbook 2021

2021 Deals Highlights

- \$922M cellcentric (Daimler Truck AG and Volvo Group)
- \$217M HTEC
- \$139M Westport Fuel Systems
- \$100M Loop Energy

Source: Pitchbook 2021

- CleanBC Go Electric Advanced Research and Commercialization (ARC) program supports the development of companies operating in the zero-emission vehicle (ZEV) sector
- B.C. Centre for Innovation and Clean Energy will be an incubator for the research and commercialization of technologies, including carbon capture, utilization and storage, production and distribution of low-carbon hydrogen, biofuels, synthetic fuels, renewable natural gas, and battery technologies

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Opportunity, Amplified. In a region like no other.