

# BC CONSTRUCTION CLEANTECH

Industry Whitepaper *July 2021*

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## **DISCLAIMER**

This report was produced as part of the UBC Sustainability Scholars Program, a partnership between the University of British Columbia and various local governments and organisations in support of providing graduate students with opportunities to do applied research on projects that advance sustainability across the region.

This project was conducted under the mentorship of Scius Advisory staff. The opinions and recommendations in this report and any errors are those of the author and do not necessarily reflect the views of Scius Advisory or the University of British Columbia.

## INTRODUCTION

Stringent zero-emission and net-zero building targets established by municipal and provincial governments are currently challenging BC's construction industry. Policies like the BC Energy Step Code and the Zero Emissions Building Plan are demanding high-performance, low-carbon building products and technologies for new construction. Additionally, further efforts are being made to retrofit existing buildings to meet the energy efficiency goals and climate change drivers. To satisfy the increased demand and develop local supply chain resilience, BC needs to strengthen its capacity to produce sustainable, green building products and technologies.

The purpose of this report is to define and map the BC-based low/no carbon clean/green-tech construction ecosystem to inform industry and stakeholders on the current state of BC's cleantech construction sector. Along with the inventory of companies attached, the report presents a preliminary overview of the active companies, and their revenue and employees.

## APPROACH

To support the project objectives, the analysis in the report was carried out in four phases:

**Phase 1:** An initial definition of construction cleantech was established based on reviews of literature and market reports. In the process, evaluation criteria were developed to facilitate and guide the

review process in Phase 2. An existing inventory of companies provided by the Vancouver Economic Commission's Green Building Market Forecast 2019 served as a baseline for the development of the database and report.

**Phase 2:** The inventory of companies was updated based on the established definition and criteria. Additionally, key data such as company names, description, website, service sector, product, location, contact information were updated and collected. Each entry received various rounds of review and was given a rating to retain, review, or remove from the database.

**Phase 3:** A desktop research method was used to explore additional companies and technologies. This included reviewing existing contact networks, featured companies in market reports, and local associations' member directories.

**Phase 4:** The analysis phase is an estimation of the industry revenue and employment. Data is sourced from Zoominfo, where it was selected based on its positivity review among industry professionals and referred by personal networks. Additionally, Zoominfo has consistent instances where the report included the most recent financial data of 2021 Q2. Secondary data was taken from Dun and Bradstreet on the account that has no information available on Zoominfo. Lastly, Crunchbase data

was investigated but ultimately not considered for the report as it presented high levels of discrepancies and lacked the majority of the companies in the database.

## DEFINITION

Cleantech refers to “technologies related to clean energy product, transmission, storage or use; water treatment and management; and/or efficiency in energy or resource management and use” (KPMG, 2019). Additionally, the term is also used interchangeably with “Greentech”. While construction cleantech falls under the general cleantech umbrella, it specifically focuses on products, materials, and technologies that help BC to meet its building-related climate policy goals. Particularly, it draws focus to companies and technologies that improve building operating performance and energy efficiency; reduce GHG emissions from operations and embodied carbon; rely on renewable energy sources; and most importantly, enable building electrification.

In the known tech ecosystem, construction cleantech shares the space with construction technologies or “contech” and timber technologies - “timber tech”. Contech comprises innovative technologies that improve the construction process, manufacturing and transportation. Timber tech – an emerging sub-sector in BC - refers to the industry involved with the supply, manufacture, transportation and use of mass timber and other prefabricated wood products and companies involved with

industrialized and componentized construction systems.

This report solely focuses on the construction cleantech sector. However, a contech industry whitepaper dated July 2020 can be found on the VEC website<sup>1</sup>. A report on BC’s timber tech sector is expected to be released by the Provincial Government in late 2021.

## EVALUATION CRITERIA

In addition to meeting the established construction cleantech definition, the companies selected for inclusion in this study also need to be commercialized product manufacturers or technology developers with demonstrable intellectual property attached to their products or services. The report does not include design consultants, advisors, and product distributors. Lastly, the companies are required to have a significant presence in the BC market with at least 3 BC-based employees.

## ECOSYSTEM

Although construction cleantech, contech, and timber tech are different in their function and definition, the three tech sectors all contribute to the project lifecycle in BC. In defining the construction cleantech ecosystem, the report identifies five industries within the cleantech sector, two industries overlapping cleantech and contech, and two industries within all three technology sectors (Figure 1). Fenestration; Energy System; Building Envelope; Lighting; Green Material; Networking, Monitoring and Control;

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<sup>1</sup> <https://www.vancouvereconomic.com/research/the-contech-ecosystem-in-metro-vancouver/>

Software; Modular and Prefabrication; and Deconstruction and Reclamation represent the primary contributors of the construction cleantech sector.

and Energy Systems have a similar share in revenue and employment size.

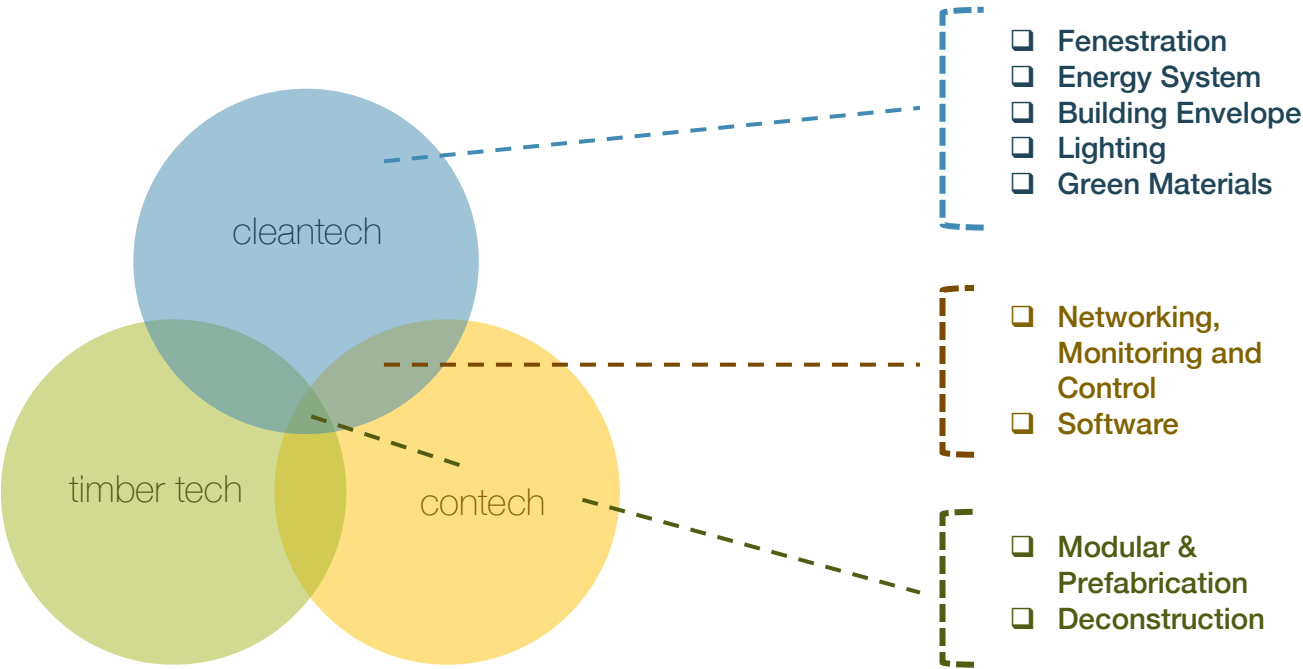


Figure 1: the Tech Ecosystem

**MARKET SNAPSHOT**

There are at least 112 companies in BC’s construction cleantech industry with an estimated 4,500 employees. The total revenues of BC’s cleantech companies were \$1.26 billion<sup>2</sup> (CAD) annually as of July 2021.

The Fenestration sector, accounts for over 40% of the total revenue generated while only accounting for one-third of the total employment (Figure 2 & 4). Comparably, other industries like Modular/Prefab, Networking, Monitoring and Control (NMS),

While the Fenestration industry leads the construction cleantech sector in the highest annual revenue, the technology-focused industry NMS and Software have the highest revenue per company (Figure 3).

Similarly, although Fenestration leads in total employment, the NMS and Building Envelope Industry lead the sector in employment intensity, measured by the number of employees per company (Figure 5).

<sup>2</sup> Source data was in USD. All monetary figures has been converted at \$1.25 USD to \$1.00 CAD (Bank of Canada July 2021 Monthly Exchange Rate)

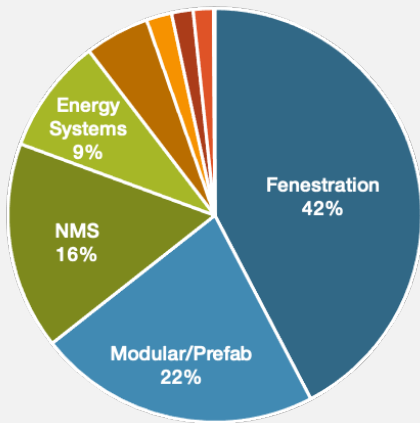


Figure 2: Revenue per Industry

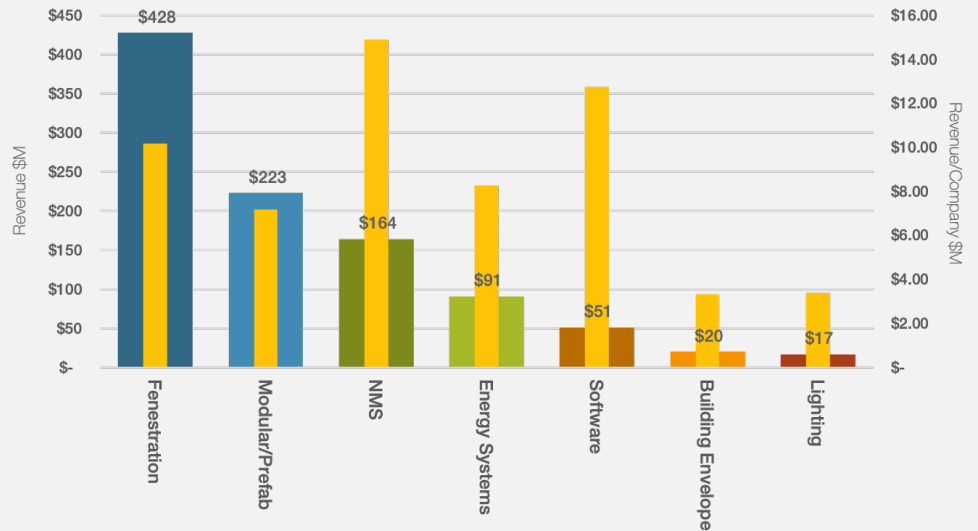


Figure 3: Revenue per Industry vs Avg Revenue/Company (Yellow)

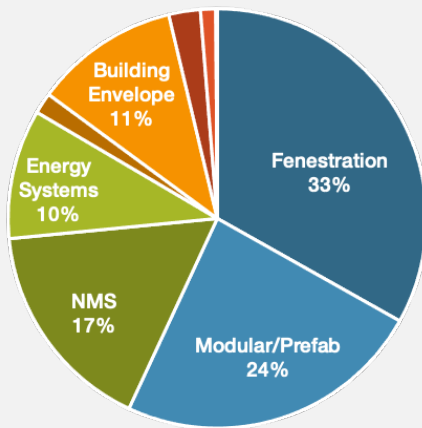


Figure 4: Workforce per Industry

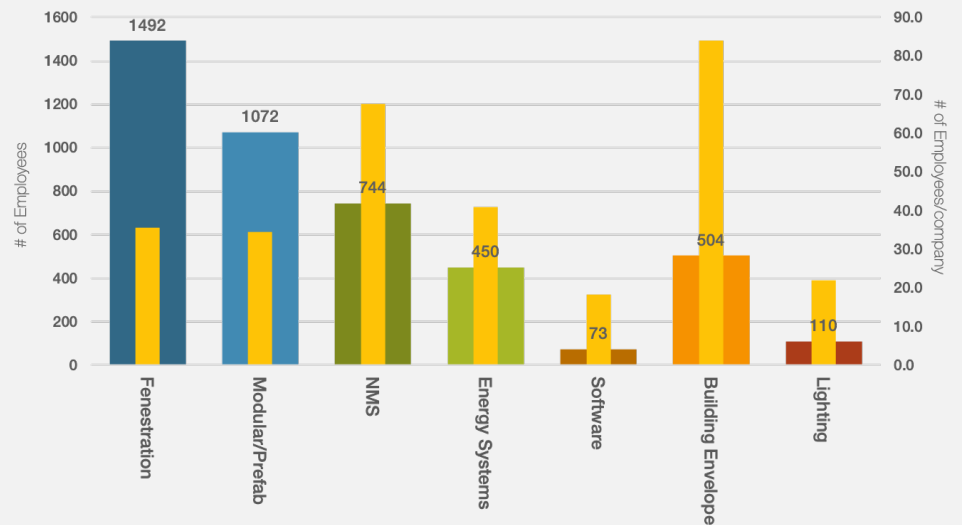


Figure 5: Workforce per Industry vs Avg Workforce/Company (Yellow)

## OVERVIEW OF KEY INDUSTRIES

**Fenestration** is the largest construction cleantech industry by revenue and employees. As of July 2021, there are at least 42 companies in this industry making \$535 million (CAD) in annual revenue and employing approximately 1,429 employees. The fenestration sector is made up of companies that develop and/or produce energy efficient windows, glazing systems, doors and skylight products for both commercial and residential applications.

Companies with products in automated opening/closing systems and self-tilting glass that help to improve energy performance are also included.

Energy efficient fenestration products were defined as meeting a minimum of EnergyStar or equivalent standards as verified via Natural Resources Canada Energy Efficiency

Ratings<sup>3</sup> or other sustainability rating systems such as the Passive House certified component database<sup>4</sup>.

## FENESTRATION HIGHLIGHT



[www.starlinewindows.com](http://www.starlinewindows.com)

**Starline Windows** is one of the industry leaders in Western North America. They produce architecturally designed aluminum windows and doors and modern residential vinyl window and door products. As of July 2021, Starline makes \$214 million (CAD) and employs more than 300 employees\*. The company is headquartered in Surrey, BC and they are the largest window manufacturer in BC.

**Modularization and Prefabrication** is the second-largest construction cleantech sector in BC. As of July 2021, there are at least 31 companies generating \$279 million (CAD) in annual revenue and employing approximately 1,072 employees. Companies in the Modularization and Prefabrication space produce high-performance prefabricated

<sup>3</sup> <https://oe.nrcan.gc.ca/pml-imp/index.cfm?action=app.search-recherche&appliance=WINDOWS>

elements, prefabricated building products, mass timber, steel or cementitious composite panels, closed building panels, and insulated concrete forms. Companies may also have offer specialized custom fabrication and/or installation services or provide factory-produced spec home. Some companies also operate advanced manufacturing systems using high degrees of automation or digitization to increase production efficiency and reduce waste.

## MODULAR & PREFAB HIGHLIGHT



[www.pacific-homes.com](http://www.pacific-homes.com)

**Pacific Homes** specializes in prefabricated building systems specifically in custom home and cottage packages. Their Pacific SmartWall® panel is laboratory-tested by BCIT High-Performance Building Lab. Located in Cobble Hill, BC, Pacific Homes has an annual revenue of \$41 million (CAD) and has approximately 118 employees.

**Networking, Monitoring and Control** are represented by 11 BC companies making \$205 million (CAD) in revenue and 744 employees. The industry incorporates Internet of Things building hardware and software to provide smart HVAC control, air

<sup>4</sup> <https://database.passivehouse.com/en/components/>

quality monitoring, lighting and window controls to increase energy efficiency and reduce operating costs. Companies included providing primary services in manufacturing, designing, and installing monitoring and control systems. Additionally, some companies also provide custom testing and commissioning services.

### NMC HIGHLIGHT

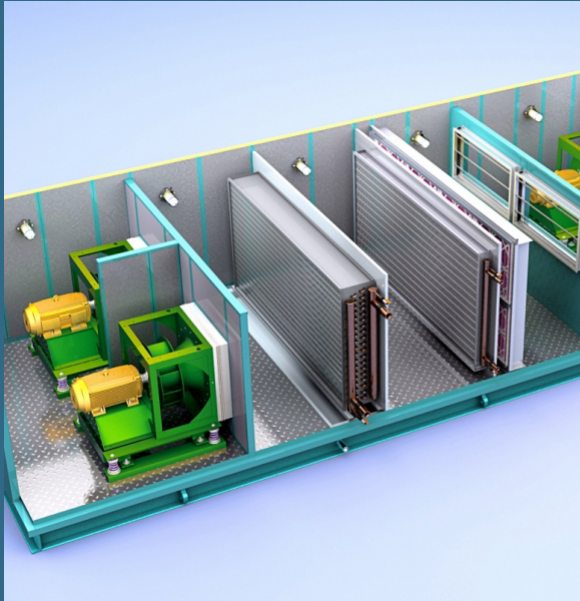


[www.deltacontrols.com](http://www.deltacontrols.com)

**Delta Controls** is an industry leader in building automation systems. Their headquarter and product manufacturing plant is located in Surrey, BC. Delta Control offers control solutions for buildings in the commercial, healthcare, hospitality, education, and leisure markets. As of July 2021, they have annual revenue of \$88 million (CAD) and have over 260 employees.

**Energy Systems** include companies that provide low carbon, energy efficient solutions for heating and cooling such as heat pumps, heat exchangers, custom HVAC systems and accessories, renewable energy systems, and up-and-coming battery power stations. There are 11 BC companies that generate \$114 million (CAD) annually and employ 450 people. To keep in line with low emission and electrification goals, fossil-fuel based HVAC systems are excluded from the report.

### ENERGY SYSTEM HIGHLIGHT



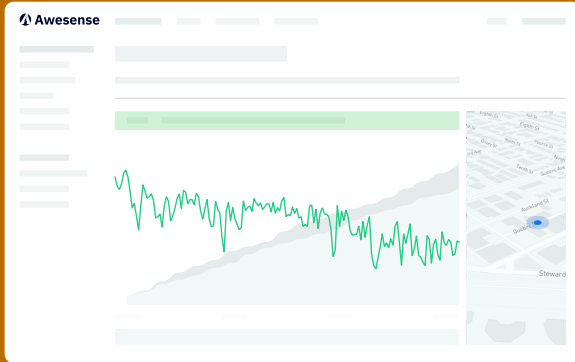
[www.haakon.com](http://www.haakon.com)

**Haakon Industries** is a manufacturer of custom air handling equipment located in Richmond, BC. All their air handling units are custom-made to different projects and requirements and are designed with their in-house proprietary software. Haakon serves various commercial, industrial and institutional industries with an estimated revenue of \$49 million (CAD) and 177 employees.

**Software** development is the newest identified sector in the construction cleantech ecosystem. As of July 2021, the sector produces \$64 million (CAD) in annual revenue with a total workforce of 73 workers spread across 4 companies. These companies primarily focus on solutions in data visualization and processes in aiding energy management and load demand prediction and distribution. The products include solutions for both private and commercial energy metering.



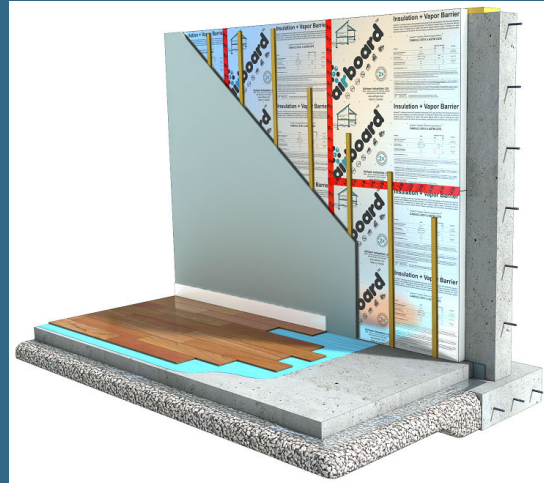
## SOFTWARE HIGHLIGHT



[www.awesense.com](http://www.awesense.com)

**Awesense's** Digital Energy Platform empowers decarbonization and decentralization through data-driven applications and analytics. Their solution allows utilities to scale with the changing technology landscape of the energy grid. The Digital Energy Platform can integrate with existing visualization tools like Jupyter, Zeppelin, Tableau, and Power BI. Awesense is stationed in Vancouver, BC and has 44 employees and generates \$58 million (CAD) annually.

## BUILDING ENVELOPE HIGHLIGHT



[www.airfoam.com](http://www.airfoam.com)

**Airfoam Industries** manufactures sustainable building insulation, geofoam, flotation, and other expanded polystyrene products. Airfoam's Rigid Insulation covers applications for building walls, roofs, and below-grade foundations. They are located in Surrey, BC and have approximately 36 employees, generating \$9 million (CAD) in annual revenue.

**Building Envelope** is represented by 6 BC companies making \$25 million (CAD) in annual revenue with approximately 504 employees. The building envelope is critical to high-performance buildings as it minimizes the effect of outside temperature on the indoor air temperature. Products like insulation, air, vapour, and moisture barriers, and other thermal break solutions work in tandem with the building's fenestration and HVAC systems.

**Lighting** comprises 5 companies that produce energy efficient LED products and solutions, daylight optimization systems, and fibre optic lighting. In total, there are 110 employees in the sector generating \$21 million (CAD) in revenue.

## LIGHTING HIGHLIGHT



[www.cooledgelighting.com](http://www.cooledgelighting.com)

**Cooledge Lighting** is an innovative lighting company that produces flexible LED light sheets that deliver high-quality illumination that is seamless, adaptable and scalable when compared to traditional lighting solutions. In 2019, Cooledge was named by Cleantech Group to the 2019 Global Cleantech 100 list<sup>5</sup>. Their office is in Richmond, BC, producing \$9 million (CAD) in revenue annually and has a workforce of 50 employees.

## UNDER-REPRESENTED INDUSTRIES

This study has found that BC's construction cleantech ecosystem is well represented by some sectors, such as Fenestration and Modularization and Prefabrication, but lacking in others – notably in the development and production of Green Materials and in Building Deconstruction.

**Green Materials** comprise construction products that have a low impact on the environment and/or human health such as

<sup>5</sup> <https://www.cooledgelighting.com/company>


low embodied carbon, non-toxic and/or high recycled content. There are also products made from natural materials such as wool, hemp and straw, that also fit the definition.

There is only one identified Green Material company in BC. Dinoflex specializes in cost-effective rubber flooring, surfaces, tiles and custom products and solutions for architects, designers, and builders. Their products have high recycled rubber content reused from waste tires. The repurposed materials are low VOC and also qualify for LEED credits. Dinoflex manufactures in Salmon Arm, BC with 50 employees and \$9 million (CAD) in annual revenue.

**Building Deconstruction** comprises processes and technologies to disassemble and reclaim building materials at the end of a building's life. Unbuilders is the only identified Deconstruction company in BC. Their work includes demolition by hand and salvaging old-growth lumber, windows, doors, cabinets, fixtures and appliances. The company holds the City of Vancouver's highest recorded salvage and recycle rate of 99% for single-family homes. Unbuilders have projects around the Metro Vancouver area and their office is in Vancouver, BC. As of July 2021, they have \$1 million (CAD) in annual revenue and 5 employees.

## NEXT STEPS

This study provides a snapshot of BC's emerging construction cleantech sector. The companies included have an important role to play in helping BC achieve its climate goals



while growing the green economy. BC's construction industry is a major economic driver, generating 8% of the province's GDP. At the same time, buildings are responsible for emitting 8.3MtCO<sub>2</sub>e (2018) – 12% of BC's total GHG emissions.

The next step is to engage with the companies included to understand the challenges and opportunities for growth. The sector is also evolving quickly and regular updates to the list of construction cleantech companies will be important to identify market entrants, track growth and follow market trends.

In response to the climate emergency, BC has established the Energy Step Code<sup>6</sup> which sets a clear policy roadmap to net zero energy buildings by 2032. The BC Electrification Roadmap<sup>7</sup> offers a path towards low carbon buildings, infrastructure and transportation. Awareness campaigns and capacity building programs will be needed to help owners, investors and those working in the industry to engage with the technologies, products and materials being developed by the construction cleantech companies.

There is increasing physical evidence of climate change, government agencies and industry leaders can bring a change in communication tone to drive the uptake of clean and green construction. In addition, the governments can show leadership in establishing preferred purchasing for green and cleantech products and services.

Ultimately, bridging the knowledge gap between the mainstream world of construction and the dynamic and rapidly evolving construction cleantech sector.

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<sup>6</sup> <https://energystepcode.ca/>

<sup>7</sup> <https://www.zebx.org/launching-bcs-building-electrification-road-map/>

## APPENDIX

FENESTRATION	
3E Glass Ltd	<a href="http://3eglass.com/">http://3eglass.com/</a>
A-1 Window Manufacturing Ltd	<a href="https://a1windows.ca/">https://a1windows.ca/</a>
Berdick Manufacturing Pacific Ltd	<a href="https://www.berdickwindows.com/">https://www.berdickwindows.com/</a>
Boardwalk Woodworking Ltd	<a href="http://boardwalkwoodwork.com">http://boardwalkwoodwork.com</a>
Bowen Window & Door Ltd	<a href="http://windowvancouver.com/">http://windowvancouver.com/</a>
Builders Door & Window Supply	<a href="https://www.buildersdoorandwindow.ca/">https://www.buildersdoorandwindow.ca/</a>
Canadian Aluminum Windows (2004) Ltd	<a href="http://www.canadianwindows.info/">http://www.canadianwindows.info/</a>
Cascadia Windows Ltd	<a href="https://www.cascadiawindows.com/">https://www.cascadiawindows.com/</a>
Centra Windows Inc	<a href="https://www.centrawindows.com/">https://www.centrawindows.com/</a>
Century Glass	<a href="http://www.centuryglass.ca/">http://www.centuryglass.ca/</a>
Columbia Manufacturing Co. Ltd	<a href="http://www.columbiaskylights.com/">http://www.columbiaskylights.com/</a>
Csky Windows Ltd	<a href="http://www.cskywindows.ca/">http://www.cskywindows.ca/</a>
DYG Windows Ltd	<a href="http://www.dygwindows.com/">http://www.dygwindows.com/</a>
Dynamic Architectural Windows & Doors Inc	<a href="https://www.dynamicwindows.com/">https://www.dynamicwindows.com/</a>
Enerstar Windows Ltd	<a href="https://enerstarwindows.com/">https://enerstarwindows.com/</a>
EuroLine Windows Inc	<a href="https://euroline-windows.com/">https://euroline-windows.com/</a>
Fenstur Windows and Doors	<a href="https://www.fensturwindows.com/">https://www.fensturwindows.com/</a>
HighQ Windows Inc	<a href="https://www.highqdev.ca/">https://www.highqdev.ca/</a>
Home Fortune Enterprises Ltd	<a href="http://homefortune.ca/">http://homefortune.ca/</a>
Innotech Windows & Doors Inc	<a href="https://www.innotech-windows.com/">https://www.innotech-windows.com/</a>
MJ Windows Ltd	<a href="https://www.mjwindows.ca/">https://www.mjwindows.ca/</a>
Modern Aluminum and Vinyl Products Ltd	<a href="https://modern.ca/">https://modern.ca/</a>
Morrison Windows Ltd	<a href="http://morrisonwindows.ca/">http://morrisonwindows.ca/</a>
Oasis Windows Ltd	<a href="http://oasiswindows.com/">http://oasiswindows.com/</a>
RetroTeck Window Mfg. Ltd	<a href="https://www.retroteckwindow.ca/">https://www.retroteckwindow.ca/</a>
Starline Windows	<a href="https://www.starlinewindows.com/">https://www.starlinewindows.com/</a>
Stilewood International Door and Window	<a href="http://stilewood.com/">http://stilewood.com/</a>
Sunlight Windows MFG Ltd	<a href="http://windowdoorvancouver.com/">http://windowdoorvancouver.com/</a>
Super Windows Ltd	No website
Thermoproof Manufacturing Ltd	<a href="https://www.thermoproof.ca/">https://www.thermoproof.ca/</a>

Tyee Manufacturing Inc	<a href="https://www.tyeewindows.com/">https://www.tyeewindows.com/</a>
Unison Windows & Doors Inc	<a href="https://unisonwindows.com/">https://unisonwindows.com/</a>
Van Isle Windows Ltd	<a href="https://www.vanislewindows.com/">https://www.vanislewindows.com/</a>
VanAir Design Inc	<a href="https://www.vanairdesign.com/">https://www.vanairdesign.com/</a>
Vario Glass Inc	<a href="https://varioglass.ca/">https://varioglass.ca/</a>
View Inc	<a href="https://view.com/">https://view.com/</a>
Vintage Woodworks Inc	<a href="https://vintagewoodworks.ca/">https://vintagewoodworks.ca/</a>
Vinylco Windows Ltd	<a href="https://vinylcowindows.com/">https://vinylcowindows.com/</a>
Vinyltek Windows	<a href="https://www.vinyltek.com/">https://www.vinyltek.com/</a>
West Coast Windows Ltd	<a href="https://www.westcoastwindows.ca/">https://www.westcoastwindows.ca/</a>
Westeck Windows Manufacturing Ltd	<a href="https://www.westeckwindows.com/">https://www.westeckwindows.com/</a>
Windowland Construction Inc. DBA	<a href="http://windowland.bc.ca/">http://windowland.bc.ca/</a>

## MODULAR & PREFABRICATION

Adaptive Homes	<a href="http://www.adaptive-homes.ca/">http://www.adaptive-homes.ca/</a>
Advantage ICF	<a href="http://www.advantageicf.com">www.advantageicf.com</a>
AE Concrete Products Inc	<a href="http://www.aeconcrete.com/">http://www.aeconcrete.com/</a>
B.C. Passive House	<a href="https://www.bcpassivehouse.com/">https://www.bcpassivehouse.com/</a>
BCollective Homes Inc	<a href="https://bcollective.ca/">https://bcollective.ca/</a>
Brisco Manufacturing	<a href="http://briscoman.com/">http://briscoman.com/</a>
Built Prefab Corp	<a href="https://builtprefab.com/">https://builtprefab.com/</a>
Centura Building Systems Ltd	<a href="https://www.centurabuilding.com/">https://www.centurabuilding.com/</a>
Chaparral Industries	<a href="https://www.chaparralbuilt.com/">https://www.chaparralbuilt.com/</a>
Collective Carpentry	<a href="https://collectivecarpentry.com/">https://collectivecarpentry.com/</a>
Factor Building Panels	<a href="https://www.factorbuildingpanels.ca/">https://www.factorbuildingpanels.ca/</a>
Footprint Sustainable Housing Corp	<a href="https://www.homesbyfootprint.ca/">https://www.homesbyfootprint.ca/</a>
Freeport Industries	<a href="https://freeportindustries.ca/">https://freeportindustries.ca/</a>
Intelligent City Inc	<a href="https://intelligent-city.com/">https://intelligent-city.com/</a>
Kalesnikoff	<a href="https://kalesnikoff.com/">https://kalesnikoff.com/</a>
Mitsui Home Canada Inc	<a href="https://www.mitsuihome.ca/">https://www.mitsuihome.ca/</a>
Moduline Homes	<a href="http://modulinepenticton.com/">http://modulinepenticton.com/</a>
MSE Precast	<a href="https://mseprecast.com">https://mseprecast.com</a>
Nexii Building Solutions	<a href="https://www.nexii.com/">https://www.nexii.com/</a>

NRB Modular Solutions	<a href="https://nrbmodular.com/">https://nrbmodular.com/</a>
Pacific Homes	<a href="https://pacific-homes.com/">https://pacific-homes.com/</a>
Paradigm Building Solutions Ltd	<a href="https://paradigmpanels.com/">https://paradigmpanels.com/</a>
Quad-Lock Building Systems	<a href="https://www.quadlock.com">https://www.quadlock.com</a>
Seagate Mass Timber Inc	<a href="https://seagatestructures.com/">https://seagatestructures.com/</a>
Spearhead Timberworks Inc	<a href="https://www.spearhead.ca/">https://www.spearhead.ca/</a>
SRI Homes	<a href="http://srihomes.com/">http://srihomes.com/</a>
Stack Modular	<a href="https://www.stackmodular.com/">https://www.stackmodular.com/</a>
StructureCraft Builders Inc	<a href="https://structurecraft.com/">https://structurecraft.com/</a>
StructurLam Mass Timber Corp	<a href="https://www.structurlam.com/">https://www.structurlam.com/</a>
Tamlin International Homes	<a href="https://tamlintimberframehomes.com/">https://tamlintimberframehomes.com/</a>
Zirnhelt Timber Frames	<a href="http://ztframes.com/">http://ztframes.com/</a>

### NETWORKING, MONITORING AND CONTROL

Delta Controls Inc	<a href="https://deltacontrols.com/">https://deltacontrols.com/</a>
Echoflex Solutions Inc	<a href="https://www.echoflexsolutions.com/">https://www.echoflexsolutions.com/</a>
Energex Inc	<a href="https://www.energexinc.com/">https://www.energexinc.com/</a>
EnerPro Energy Management	<a href="https://enerprosystems.com/">https://enerprosystems.com/</a>
Optigo Networks Inc	<a href="https://optigo.net/">https://optigo.net/</a>
Quadlogic Meters Canada Inc	<a href="https://qimeters.com/">https://qimeters.com/</a>
Reliable Controls Corp	<a href="https://www.reliablecontrols.com/">https://www.reliablecontrols.com/</a>
Sensible Building Science	<a href="https://sensiblebuildingscience.com/">https://sensiblebuildingscience.com/</a>
SMT Research Ltd	<a href="https://www.smtresearch.ca/">https://www.smtresearch.ca/</a>
Tantalus Systems Corp	<a href="https://www.tantalus.com/">https://www.tantalus.com/</a>
TZOA (Clad Innovations Ltd)	<a href="https://tzoa.com/">https://tzoa.com/</a>

### ENERGY SYSTEM

CORE Energy Recovery Solutions	<a href="https://core.life/en/">https://core.life/en/</a>
Eneready Products Ltd	<a href="https://enereadyproducts.com/">https://enereadyproducts.com/</a>
Fenix Energy Canada Inc	<a href="https://fenixenergy.com/">https://fenixenergy.com/</a>
Geotility Geothermal Installation Corp	<a href="https://www.geotility.com/">https://www.geotility.com/</a>
Haakon Industries Canada Ltd	<a href="https://haakon.com/">https://haakon.com/</a>
Olympic International	<a href="https://www.olympicinternational.com/">https://www.olympicinternational.com/</a>

Oxygen8 Solutions Inc	<a href="https://oxygen8.ca/">https://oxygen8.ca/</a>
Portable Electric	<a href="https://portable-electric.com/">https://portable-electric.com/</a>
SHARC Energy Systems Inc	<a href="https://www.sharcenergy.com/">https://www.sharcenergy.com/</a>
Smartforme	<a href="http://www.smartforme.ca/">http://www.smartforme.ca/</a>
Terratek Energy Solutions	<a href="http://www.terratek.ca/">http://www.terratek.ca/</a>

## SOFTWARE

Awesense Inc	<a href="https://www.awesense.com/">https://www.awesense.com/</a>
Open Technologies	<a href="https://opentech.eco/">https://opentech.eco/</a>
Rainforest Automation Inc	<a href="https://www.rainforestautomation.com/">https://www.rainforestautomation.com/</a>
Uplight Inc	<a href="https://uplight.com/">https://uplight.com/</a>

## BUILDING ENVELOPE

Airfoam Industries Ltd	<a href="https://www.airfoam.com/">https://www.airfoam.com/</a>
Beaver Plastics Ltd (Chilliwack)	<a href="https://beaverplastics.com/">https://beaverplastics.com/</a>
Hal Industries Inc	<a href="https://www.halind.com/">https://www.halind.com/</a>
Monoglass Inc	<a href="https://monoglass.com/">https://monoglass.com/</a>
Rockwool International	<a href="https://www.rockwool.com/north-america/">https://www.rockwool.com/north-america/</a>
U-kon System	<a href="https://www.u-kon.com/">https://www.u-kon.com/</a>

## LIGHTING

BL Innovative Lighting	<a href="https://bllighting.com/">https://bllighting.com/</a>
Cooledge Lighting Inc	<a href="https://www.cooledgelighting.com/">https://www.cooledgelighting.com/</a>
Green Image Tech (Marvee Enterprises Ltd)	<a href="http://www.greenimagetech.com/">http://www.greenimagetech.com/</a>
Nano-lit Technologies Ltd	<a href="https://www.nano-lit.com/">https://www.nano-lit.com/</a>
Radiance Energy Corp	<a href="https://www.radiance.energy/">https://www.radiance.energy/</a>