



## Challenge: LCBA - VEC City of Vancouver - Zero-waste solutions

### Challenge Statement/Synopsis:

Vancouver residents, businesses and institutions threw away about 371,000 tonnes of garbage in 2016. The City of Vancouver is seeking innovative, functional and scalable solutions that will help eliminate the disposal of waste (solid and organic) to landfill and incinerator.

### Context:

[Zero Waste 2040](#) is a long-term strategic vision for Vancouver. The primary objective of the Plan is to eliminate the disposal of solid waste to landfill and incinerator by 2040, through alignment with an approach which includes, in order of priority:

1. Avoid & Reduce
  - a. Avoid the generation of waste and reduce the amount of waste that can't be avoided.
2. Reuse
  - a. Prioritize material reuse such as sharing, repurposing, repairing and refurbishing over recycling and disposal.
3. Recycle & Energy Recovery
  - a. Increase the total amount of material recycled, reduce carbon emission by maximizing the recovery of inedible food and green waste for composting and renewable energy recovery.
  - b.

### Response Criteria:

- The City is seeking low-cost, high impact solutions that help to eliminate the disposal of solid waste to landfill and incinerator. Solutions can include, but are not limited to, alternative recycling technologies, food rescue and recovery solutions, biogas, biofuel production technologies, and fleet material recycling (scrap metal, oil and batteries).
- The City of Vancouver is targeting companies with solutions that land between TRL 6-9 of the technology readiness scale (TRL), although it will consider low TRL solutions on a demonstration basis if they are especially novel.
- Proponents must explain how their solutions meets safety and regulatory standards and provide a description of successful deployments where applicable.
- Provide CAPEX and OPEX details for the solution. The City of Vancouver prefers an investment payback/cost recovery within fewer than five years. However, it will consider five- to eight-year paybacks with additional due diligence.



- If applicable, proponents should explain coverage (i.e., how many installations will the solution need?), impact (i.e., how does the solution help Vancouver achieve its Zero Waste 2040 Strategic Plan), reliability (i.e., how well will the solution perform in real-world environments?).

[Eligible European companies](#) can apply to the targeted challenge using the [LCBA Canada Application Portal](#)

#### **The Opportunity:**

- If chosen, conduct a demonstration project of the solution with the City of Vancouver, one of Canada's largest, most sustainable cities.
- Pitch your solution during GLOBE Forum 2022, North America's longest running sustainable business conference.
- Meet new customers and access new markets.

#### **About the City of Vancouver:**

Vancouver is the third largest metropolitan region in Canada and has the 3<sup>rd</sup> largest Port in North America. Vancouver as a major infrastructure owner, manages \$25 billion of capital assets encompassing facilities, parks, street and underground infrastructure. Since 2011, the City has adopted a service-based capital planning framework to drive accountability, enhance transparency, and enhance a more holistic, city-wide approach to long-term capital investment decision making.

<https://projectgreenlight.io/wp-content/uploads/2019/10/Capital-assets-inventory-condition-assessment-2019-22-Cap-Plan-July-2018.pdf>

\*\*\*Only non-confidential information should be included in your response \*\*\*