

TRANSLINK 2022 OPEN CALL FOR INNOVATION

Challenge Topic – Transportation Decarbonization

The Challenge Statement

How can TransLink support a rapid decarbonization of transportation in Metro Vancouver in support of our region's ambitious 2030 climate targets?

TransLink is seeking ideas in areas including **one or more of the following**:

- More rapidly deploy and manage sufficient electric charging capacity across the region to support the electrification of private and shared passenger and freight transportation.
- Support TransLink's corporate climate action commitments related to zero-carbon transit fleet, zero-carbon buildings and infrastructure including, but not limited to:
 - Resiliency / back-up / energy storage solutions for electrification of fleet and buildings using zero-carbon energy sources
 - Preventive maintenance solutions to reduce battery degradation
 - Renewable fuels
 - Hydrogen fuel cells
 - Carbon capture for fleetsNote: TransLink is already adopting battery electric buses. They are therefore excluded from this Open Call.
- Methods and processes that promote a circular economy for vehicle battery repurposing, recycling, and safe disposal.
- Leverage TransLink's transit decarbonization investments to support decarbonization elsewhere in the transport system.
- Support policy interventions and pilot initiatives which significantly reduce greenhouse gas emissions from cars and trucks (through reducing driving and transitioning to zero emissions vehicles).

About TransLink:

TransLink's legislated purpose is to provide a regional transportation system that moves people and goods, and supports the regional growth strategy, provincial and regional environmental and emission reduction objectives, and the economic development of our transportation service region.

In support of that purpose, TransLink has the following responsibilities:

- Plan, fund and manage the regional transportation system for Metro Vancouver.
- Coordinate with partners on the regional transportation implications of land use and growth management plans, major developments, and major highway or infrastructure proposals.
- Acquire, construct, maintain and insure assets and infrastructure required to operate the regional transportation system including transit fleet and infrastructure, major roads, bridges, active transportation infrastructure and technology.
- Operate transit and transportation services including bus, paratransit, ferries, rail rapid transit and commuter rail across the region.
- Protect the travelling public and ensure that people feel welcome, safe, and secure while using public transit using civilian and community security and a dedicated Transit Police force.

While TransLink will review ideas at all stages of the development spectrum, priority will be given to ideas that have been successfully tested in operational environments and that can be deployed in our region in the near term. Simple and cost-efficient solutions will also be prioritized.