

Wave 3 Challenges - Deadline 17 December 2021

#	Canadian Buyer	Sector	Activity	Challenge Statement
1	VEC City of Vancouver	Multisector	GHG Reduction & Net Zero	Low carbon fuel supply and infrastructure for city fleets Seeking innovative ideas that support the City's pursuit of zero-emission fleets (medium- to heavy-duty), including alternative fuels solutions
2			GHG Reduction	Low Carbon Construction Materials and Equipment Seeking innovative ideas that address low-carbon construction requirements of the future, focusing on low embodied carbon construction materials for buildings and low emission equipment on construction sites
3			GHG Reduction & Net Zero	EV Charging Infrastructure Seeking innovative ideas that support the City's pursuit of zero-emission fleets (medium- to heavy-duty), including EV charging solutions
4			Sustainability	Urban rainwater runoff reuse Looking for Green Rainwater Infrastructure (GRI) solutions that will retain and treat urban run-off
5			Waste Reduction	Municipal waste reduction and reuse Seeking innovative, functional and scalable solutions that will help eliminate the disposal of waste (solid and organic) to landfill and incinerator
6			GHG Reduction & Sustainability	FortisBC - Residential EV charging optimisation Seeking innovative ideas that reduce barriers for customers to install EV home charging and improve charging accessibility in rural and remote communities
7			GHG Reduction	TransLink - Operational energy reduction for transport building Seeking innovative ideas that address key challenges regarding building energy efficiency and management to reduce GHG emissions
8			GHG Reduction	TransLink - Regional transport decarbonization Seeking innovative ideas that address key challenges regarding fleet energy optimization and scheduling to reduce GHG emissions
9	The City of Toronto	Buildings, Real Estate, Infrastructure	Renewable Energy	Community-scale Residential Energy Storage Seeking innovative ideas that support the integration of community-scale renewable energy systems, specifically community-scale energy storage solutions
10			Renewable Energy	Residential in-building renewable energy generation Seeking innovative solutions that will increase in-building (i.e., standalone) renewable energy generation
11	Breathing Space (Alberta Lung Association)	Buildings, Real Estate, Infrastructure	Sustainability	Indoor air quality solutions Seeking solution to provide the cleanest air possible for recovering lung transplant patients, including but not limited to VOCs, humidity levels, microbe and mould control and equal fresh air distribution
12	BC Ferries	Transportation	GHG Reduction & Net Zero	Vessel on-board energy reduction Seeking technical solutions that will enable us to incrementally reduce the onboard energy requirements needed to safely operate the vessels
13	Celebrate Niagara	Other	Sustainability & Circular Economy	Sustainable Event Materials Seeking event supplies - including lanyards, name tags - sourced from sustainable materials
14	Premier Meat	Agriculture, Agri-food and Aquaculture	Circular Economy	Sustainable retail packaging for fresh meat Looking for innovative solutions that will replace the single use plastic and Styrofoam trays currently used to package their products with recyclable or compostable alternatives
15	ARLANXEO	Heavy Industry	GHG Reduction & Circular Economy	Biobased feedstock production Solutions to convert biological sludge into fossil fuel substitution for petrochemical industry
16	SPA Aqua Prima	Agriculture, Agri-food and Aquaculture	Renewable Energy & Waste to Energy	Energy reduction for wellness facilities Seeking solutions to convert waste heat and steam, biomass heating or solar thermal for wellness facilities.
17			Circular Economy	Nutrient Recycling & Bioremediation solutions seeking solutions for bioremediation and nutrient recycling in outdoor open surface waters and indoor pools to create value-adding products
18	Walker Industries	Agriculture, Agri-food and Aquaculture	Circular Economy	Biosolids upcycling Seeking solutions to convert biosolids (sewage wastewater residuals) to agricultural fertilizer and/or other beneficial end-products

Neighbourhood Energy Utility Challenges (early deadline - 12 November 2021)

VEC City of Vancouver	Multisector	GHG Reduction & Renewable Energy	NEU - Energy Efficiency Solutions Seeking new technologies and energy efficiency solutions pertaining to demand-side energy management and operational efficiency
		GHG Reduction & Renewable Energy	NEU - Low Carbon Heat Seeking new technologies for low-carbon heat production and heat production optimization solutions
		GHG Reduction & Renewable Energy	NEU - Renewable Energy Generation Seeking technologies and renewable energy generation solutions to replace the conventional natural gas supply