

City of Vancouver Sustainability Bond Annual Information Update October 2023

Use of Proceeds and Projects Updates (2018 Green Bond)



Project Name	Capital Budget Item	Description	Eligibile Criteria	Allocation from 2018 Green Bond	Completion Date (Current Stage %)	Amount fully drawn from 2018 Green Bond	2023 Updates (as of Oct 2023)
Fire Hall 17 Renewal	(Public Safety Facilities)	To replace the existing Fire Hall 17 located at 7070 Kingle Silved with a new kullding. The new Fire Hall 17 is being designed to be LEED Cold and Passive House costflict and as a pitcl for the new CaGBC Zero Canton building Standard	Green Buildings	\$14,300,000	Competed (100%)	\$14.300,000	Completed and occupied . Zerre Enrissins Strategy: Passive House, CaGBC Zero Carbon Building, Net Zero Energy, all elocitic Ground source heat pump space heating Air source heat pump DHW 80 kW Solar PV KPI's based on energy data from July 2022 to June 2023: EUI 06 kWhm2-yr GHGI 0.48 kg/m2-y
Roddan Lodge Redevelopment	(Community Facilities)	New building to provide replacement self-contained units for the existing Roddan Lodge residents and low-end-of- market rental units. The unit mix will be studios and one and twi-bedroom units. The new building will also contain a replacement facility for the Evelyn Saller Center, a social service agency for low income and al-rick adults living in the Downtown Eastalde, and includes a low-cost califieria, showen, laundry services and a vanely of social and recreational program.	Green Buildings	\$26,650,000	Competed (100%)	\$26,650,000	Completed and occupied. Zero Emissions Strategy: 30% energy below code, all electric Aermec NRP air source heat pumps – space heating Aermec NRK high temp air source heat pumps – DHW RPI's based on energy data from July 2022 to June 2023: EUI 199 KWh/m2-yr GHGI 2.29 kg/m2-yr
Neighbourhood Energy Utility (NEU) System Expansion	(Neighbourhood Energy)	Expansion of the NEU system to serve new customers in Fairs Creek area. The program includes 1) Engineering and construction scholles to repand the distribution system to 12 mere large customer buildings 2) Completion of monor hading plant boiler and controls upgrades, and: 3) Engineering analysis and design for expansion of sewage heat recovery system at the Fairs Creek Energy Cente.	Renewable Energy	\$6,023,000	Completed (100%)	\$6,023,000	Project completed in 2022. NEU service area (as at Dec 2021): 603,000 m2 NEU service area added in 2021: -42,000 m2 Renewable energy use in 2021 (projected); 69% GNG reduction forecast in 2021: 5,00 tonnes CO22/year Dualitative highlights from 2021: Secured up to 510.2M grant funding for 6.6MW capacity expansion of sewage heat recovery system.
Sewer & Water Main Reconstruction	(Sewer & Water)	This program replaces the sewer inflastincture from a combined system (single pipes that carry storm water and sewage mixed together) to a separated system (reparate storm pipes and sanitary pipes), which provides a higher service level, reduces flooding risk and prevents combined sewage overflows into receiving water bodies.	Sustainable Water and Wastewater Management	\$32,550,000	Completed (100%)	\$32,550,000	Status (project specific): % of system that is separated: 53.9% (per 2021 Service Plan) engli (im) dswer pipe constructed (renewal): 9.4km Environmental benefits: Eliminates combined sever overflow Prevents flooding by increasing capacity Allows storm water to be used as a resource
Sidewaik Rehabilitation & Curb Ramp Program	(Streets and bridge infrastructure)	Installation/reconstruction of curb ramps at steed and lane intersections to provide easier access to the sidewaits. This program benefits many pedestrians including persons with disabilities, persons who use mobility aids and persons with stollers and shopping trolipys. There has been an increase in the demand for curb ramps as the CDy endeavours to complete the sidewaitk network for seamless lawel throughout the pedestrian environment.	Clean Transportation	\$3,477,000	Completed (100%)	\$3,477.000	Curb Ramps Installed by year: 2019: 200 2020: 200 2021: 300 2022: 250 KM of Sidewalk Constructed by Year 2019: 312 2020: 0.83 2021: 0.80 2022: 3.72
Pedestrian and Bike Signal Rehabilitation	(Street lighting, signals and communication systems)	Bahabilitah and modify existing potentiant Noycle traffic signals. Activities typically include the replacement/ upgrade of aging equipmentito bring signals up to correct standards, as well a modifications such as the installational countdown lineers, cyclist push buttow, automated detection and accessible podesthan signals for the sight and hearing impaired.	Clean Transportation	\$2,000,000	Completed (100%)	\$2,000,000	Signal upgrade project by year 2019: 90 2020: 51 2021: 48 2022: 74

Use of Proceeds and Projects Updates (2021 Sustainability Bond)



Project Name	Capital Budget Item	Description	Eligibile Criteria	Allocation from 2021 Sustainability Bond	Completion Date (Current Stage %)	Amount drawn from 2021 Sustainability Bond	2023 Updates (as of Oct 2023)
Sewer & Water Main Reconstruction	Sewer	This program replaces the server infrastructure from a combined system (single ppes that carry storm water and servage mixed together) to a separated system (separate storm pipes and sanitary pipes), which provides a higher service level, reduces flooding risk and prevents combined servage overflows into receiving water todes.	Sustainable Water and Wastewater Management	\$70,284,220	Completed (100%)	\$70,284,220	Status (project specific): % of system that is separated: 55.2% (per 2022 Service Plan) ength (km) of sewer pipe constructed (renewal) : 17.7km Environmental benefits: Eliminates combined sewer overflow Prevents flooding by increasing capacity Allows storm water to be used as a resource
Renewal of Sunset Yard	Civic facility renewal projects	The Sunset Nursey and Operations Yard master plan design locates the new buildings at the edges of the site, leaving the middle of the site for the works yard and heavy machiney. This attribuy creates a build for the summaring residential neighborhood and facilitate fine movement within the site for possion in eight years on the site of against the transmission of the site	Green Buildings	\$9,000,000	Q3 2024 (16%)	\$3,088,190	Contract for construction of the operations building has been awarded and construction is starting. High level planning complete for replacment of greenhouses and construction of the low carbon energy system. KPI's not available yet.
Firehall #12 Seismic Upgrades	Civic facility renewal projects	Approximately 60M is allocated to provide for the setamic upgrade of Fire Holf # 12 in Klaliano community located at. 8th Ave. & Balaciava St. In Vancourse. This fire half was setekcibe because it is in the right age group (approximately 30 years of 3) and covers a relatively large group paper located age Approximately 50M is allocated to be a set of the relative set of the location of the set of the s	Access to basic infrastructure	\$5,844,000	Q2 2024 (69%)	\$1,791,909	Completion anticipated Q1 2024. KPIs not available at this time.
Streeg & Bridge Infrastructurs	Sidewalk Rehabilitation & Pedestrain Curb Ram & Bike Signal Program	Pedestrian curb samp program - Installation of curb samp across the City's sidewalk network to improve accessibility and availability of the active suspectation network Sidewalk rehabilitation - Keep the City's sidewalks in a state of good repair and encourage residentia to await thereby helpingthe City achieve its overall sumportation trapies. Buildination - Additionary and the single encourage residentian to await thereby helpingthe City achieve its overall sumportation trapies. Buildination - Addition progenoving condition for pederation and the leginal encourage institutions and thorebody impowement. This technological resource allows the traffic, and data monitoring team to survey, collect, and analyze patterns to implement safer traffic flow strategies.	Clean Transportation; Access to basic infrastructure	\$6,855,530	Q1 2023 (73%)	\$6,855,530	Curb Ramps installed by year: 2019: 200 2020: 200 2021: 300 2022: 250 KM of Sidewalk Constructed by Year 2019: 3.12 2020: 0.83 2021: 0.80 2022: 3.72
Energy Opmitization Program	Facility renovation and upgrades programs	The energy cylinization program consists of building energy rebell projects and building control cylinization projects that reduce energy consumption and generationas gas emissions within city or works building. They're deliverables include consultant continuous cylinization projects building. The control of energy difficult and giffing urgandes. HACM concern yebbls, and energy energ	Green Bulldings	\$2,810,000	Q4 2023 (100%)	\$2,810,000	Project Completed in Q4 2023. Zero Emissions Strategy: Natural gas fired boiler space heating and domestic hot heating system was replaced with an Aermec air source heat pump with electric boiler backup KPI's based on energy data from July 2022 to June 2023: EUI 95 kWh/m2-yr GHGI 1.4 kg/m2-yr

Use of Proceeds and Projects Updates (2021 Sustainability Bond)..cont'd



Project Name	Capital Budget Item	Description	Eligibile Criteria	Allocation from 2021 Sustainability Bond	Completion Date (Current Stage %)	Amount drawn from 2021 Sustainability Bond	2023 Updates (as of Oct 2023)
Accessibility Program	Facility renovation and upgrades programs	TThe Accessibility Program is a City-wide program to improve accessibility in civic facilities, particularly for highly utilized public versues. Special consideration must be given to ensure civic facilities are brainer-free as well as be open and welcoming to al citizens. Universal and inclusive design involves everything from handcapped accessibility, to an understanding of the multicultural citizen base, and the LGBTQ2+ community. The City has taken significant steps forward on inclusive-focused recommendations, continuing to move towards equality for all. To ensure the City achieves the greatest impact for accessibility outcomes and future planning, a Feasibility Study was completed by a consultant. The scope of this study involves revenying existing Accessibility Audit of 30 City-owned facilities, including City Hall, to identify and prioritize work required to renovate, upgrade and renove barriers and to improve accessibility and provide universal and inclusive design. Accessibility Audit consultant, the staff from other departments (who are working on various aspects of accessibility access the City, to develop a prioritization matrix. The suggested recommendations and improvements coming from the Feasibility Study are then prioritized through this matrix with the top priority projects then executed.	Access to essential services	\$2.080,000	Q1 2024 (87%)	\$2.080.000	This is an ongoing multi year program to improve accessibility and universal & inclusive design for City owned civic buildings. Feasibility and accessibility study of 31 public facing buildings completed in 2021 City Hall washrooms, selected accessibility upgrades completed in 2021 Mountain View Cemetery accessibility audit completed in 2022 Gathering Place accessibility upgrades for 2nd floor washrooms and shower completed in 2022 Vest End Community Centre fitness center accessibility upgrades completed in 2022 Carnegie accessibility washroom upgrades – Construction phase in progress City Hall main entrance accessibility upgrades currently in design stage. Construction phase will begin in 2023 Aditional accessibility audit for 30 City owned public facing buildings 2023-2024
Climate Emergency Respnse Program	Facility renovation and upgrades programs	The Climate Emergency Action Plan is part of the city's initial implementation of accelerated action initiatives and integration of six "Big Move" sustainability objectives into Vancouver Plan and is a multi faceted program that focuses on detivering services through various groups: Transportation Planning Studies: Focusing on increased active travel, transit reliability, reduced emissions/noise, increased road reallocation, efficient and effective planning, development, and review process Transportation groups and including assessment of feasibility of transport pricing in the metro core of Vancouver Active Transportation Promotion. Promotion, active transportation, reduce GHG emissions, and improve the road network such that the City can continue to track towards the Climate Emergency Action Plan target (by 2030, two thirds of all trips in Vancouver will be made by foot, bike or transit).	Clean Transportation; Access to basic infrastructure	\$2,025,000	Q4 2024 (64%)	\$2,025,000	Project planning underway across all active transportation and transit workstreams related to Big Move 2 in CEAP. In particular, the School Active Travel Program was expanded to help promote and encourage walking, cycling, and rolling to school. During the 2021-22 school year, the School Streets program was successfully expanded to five elementary schools. Additional pilot programs around walking school-buses were launched at three local schools. Delivery of the Ride the Road education cycling course grew from six to 37 schools annually. 20 Waik Bike Roll Mini Grants were distributed to local schools to further help promote walk, bike, roll nitiatives.
Seawall Maintenance Program	Park Maintanence, renewal and upgrade programs	Vancouver has the world's longest uninterrupted waterfront path. The 28 km Seaside Greenway is an uninterrupted pathway, including the Stanley Park Seawal, that extends from the Vancouver Convention Centre to Spanish Banks Park. Perfect for a wak, cycle, or jog, it is the most popular recreational spot in the city. The Seawall is divided in to two clearly marked sections - one for wakers and loggers (closes to the water), and not for cyclists and inline states (inside path). The seawall is subject to seasonal battering, as well as large storms, which cause damage and deterioration to the structure. Vancouver Park Board did a comprehensive assessment of the seawail an 2013 and 2016 to identify prioritize the work for this restoration project. The Stanley Park Seawail restoration project includes Tilling holes, replacing stone, stabilizing foundations, and installing material to protect against water erosion at priority board between Brockton Portin and Sume Beach. With deep foundations and renewed surfacing, the restored seawail can withstand the tides for many years to come.	Clean Transportation; Climate Change Adaptation	\$1,101,250	Q4 2024 (24%)	\$351,968	Engineering, which manages over 10kmm of seawall assets, managed structural inspections and seawall rehabilitation construction projects, including concrete repairs at Coal Harbour and revetment repairs in False Creek."



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Websites	
General	https://vancouver.ca
Greenest City Action Plan	https://vancouver.ca/greenestcity
Climate Emergency Action Plan	https://vancouver.ca/climateemergency
Investors Relations (including Sustainability Bond Framework and Second Party Opinion)	https://vancouver.ca/your-government/investor-relations.aspx
Budgets and Finances	http://vancouver.ca/your-government/budgets.aspx
Vancouver Economic Commission	http://www.vancouvereconomic.com