

Attachment 2 - Phase One Climate Action Details

Focus Area and Action		Action Class	Initiation Year	2021 Cost	2022 Cost	Funding Source	Anticipated Effect on 2030 GHG Reduction		Anticipated Effect on Resilience		Co Benefits	Link to Climate Action Goal/Target	Link to City Plans/Comments
Buildings - Local reductions of 46,974 tCO2e needed by 2030													
1	Perform comprehensive climate audits on all civic facilities and prioritize upgrades where feasible and highest risk.	Best Bet	2021	\$ 20,000	\$ 30,000	2021 funding approved through 2021 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Supports energy use reduction and clean energy transitionReduces extreme temperaturesImproves cost savings	By 2030, all new and replacement heating and hot water systems are zero emissions	Climate Action Charter Official Community Plan
2	Revise the City's Sustainability Report Card to include performance measures to reduce operational and embodied GHG emissions and climate risks.	Quick Win	2021	\$ 3,000	\$ -	2021 funding approved through 2021 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Creates jobsSupports the local economySupports energy use reduction and clean energy transitionReduces extreme temperaturesImproves cost savings	By 2030, all new and replacement heating and hot water systems are zero emissions	Outstanding Council motion Council Strategic Plan project
3	Develop a resilient, zero-emissions plan for all new and existing buildings that includes addressing indoor air quality, and climate risks where possible.	Major Project	2021	\$ 50,000	\$ -	2021 funding approved through 2021 budget. Applied for grant of \$25,000	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Creates jobsSupports the local economySupports energy use reduction and clean energy transitionReduces extreme temperatures	By 2030, all new and replacement heating and hot water systems are zero emissions By 2030, all oil and propane heating and hot water systems are replaced with zero emission systems	Official Community Plan
4	Initiate/continue discussions with federal and provincial governments to advocate for authority, financing tools, benchmarking, and other policies essential for achieving zero emissions buildings.	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Creates jobsSupports the local economySupports energy use reduction and clean energy transition	By 2030, all new and replacement heating and hot water systems are zero emissions By 2050, all buildings have replaced heating and hot water with zero emission systems	Council Strategic Plan Official Community Plan
Transportation and Mobility - Local reductions of 25,505 tCO2e needed by 2030													
5	Develop a community zero-emissions mobility strategy.	Major Project	2022	\$ -	\$ 50,000	Funding to be requested through 2022 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Reduces congestionOptimizes energy savingsImproves community livability/ vitalityImproves human health and well beingImproves air quality	40% of passenger vehicles, and 25% of commercial vehicles are electric by 2030	Council Strategic Plan
6	Conduct a utilization assessment of the City's fleet and identify opportunities to increase efficiency and reduce GHG emissions.	Best Bet	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves human health and well beingImproves air quality	40% of passenger vehicles, and 25% of commercial vehicles are electric by 2030	Climate Action Charter Official Community Plan
7	Accelerate and fund implementation of the Master Transportation Plan projects to reduce GHG emissions by 2030, including accelerating alternative transportation goals, and initiatives focused on transit, transit-oriented development, and paths and trails. Includes addition of 1 temporary full time staff	Major Project	2021	\$ 150,000	\$ 1,747,700	No funding source identified	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Reduces congestionOptimizes energy savingsImproves community livability/ vitalityImproves human health and well beingImproves air quality	Residents walk, cycle or take transit for 40% of trips by 2030 (up from 37% in 2017)	Master Transportation Plan Council Strategic Plan Official Community Plan
Waste Reduction and Management - Local reductions of 1,579 tCO2e needed by 2030													
8	Initiate/continue discussions with Metro Vancouver to advocate for initiatives and policies to reduce waste, increase diversion rates, and increase reporting and awareness on waste generation.	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Optimizes resourcesReduces wasteSupports energy use reduction and clean energy transitionImproves air quality	Minimize waste going to landfill and achieve zero emissions from waste before 2050	Climate Action Charter Official Community Plan
Land Use and Growth Management - Influential on GHG emissions													
9	Encourage density and mixed-use neighborhoods around transportation hubs through the Official Community Plan and development applications.	Best Bet	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Creates jobsReduces congestionImproves community livability/ vitalityReduces burden on water related infrastructure (e.g. drinking water supply, stormwater)Improves equity/improvements for vulnerable populationsSupports the local economy	Residents walk, cycle or take transit for 40% of trips by 2030 (up from 37% in 2017)	Official Community Plan Master Transportation Plan
10	Require developers to include comprehensive transportation demand management (TDM) strategies in proposals for new large development projects.	Best Bet	2021	\$ 80,000	\$ -	No funding source identified	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Creates jobsReduces congestionImproves community livability/ vitalityReduces burden on water related infrastructure (e.g. drinking water supply, stormwater)Improves equity/improvements for vulnerable populationsSupports the local economy	Residents walk, cycle or take transit for 40% of trips by 2030 (up from 37% in 2017)	Official Community Plan
11	Continue to work with the Fraser Basin Council on the Lower Mainland Flood Management Strategy and public education on flood risk.	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves community livability/ vitalityReduces burden on water related infrastructure (e.g. drinking water supply, stormwater)Improves equity/improvements for vulnerable populations	Manage shoreline erosion from sea level rise and coastal flooding.	Official Community Plan
12	Develop a sea level rise strategy to assess and respond to coastal flooding, coastal squeeze, shoreline erosion and inundation.	Major Project	2022	\$ -	\$ 100,000	Funding to be requested through 2022 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves community livability/ vitalityReduces burden on water related infrastructure (e.g. drinking water supply, stormwater)Improves equity/improvements for vulnerable populations	Manage shoreline erosion from sea level rise and coastal flooding.	Official Community Plan
Emergency Response and Human Health - Influential on human health, equity & climate vulnerability													
13	Continue to inform and facilitate community education about preparedness across hazards, and build stronger connections with community associations and businesses with the aim of improved preparedness for extreme weather events.	Quick Win	2022	\$ -	\$ 15,000	Funding to be requested through 2022 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves community livability/ vitalityReduces vulnerability to extreme temperatures and weather eventsImproves equity/improvements for vulnerable populationsImproves human health and well beingSupports local food security initiativesReduces risk to property values	Ensure all members of the community have equal access to information, support, and resources related to preparing for climate change impacts.	Disaster Response Plan
14	Develop an extreme weather response plan with a focus on supporting the most vulnerable populations and identify and improve the capacity of multi purpose areas within civic facilities and parks that could be converted to cooling, warming, and emergency support centres when needed.	Best Bet	2021	\$ 25,000	\$ -	2021 funding approved through 2021 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves community livability/ vitalityReduces vulnerability to extreme temperatures and weather eventsImproves equity/improvements for vulnerable populationsImproves human health and well being	Ensure all members of the community have equal access to information, support, and resources related to preparing for climate change impacts. Ensure the City is ready to respond to climate-related hazards, such as flooding, wildfires, and extreme heat.	Outstanding Council motion Council Strategic Plan Disaster Response Plan
Infrastructure													
15	Incorporate climate change considerations into integrated stormwater management process and planning.	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Reduces burden on water related infrastructure (e.g. drinking water supply, stormwater)Reduces vulnerability to extreme temperatures and weather eventsOptimizes energy use reductionImproves cost savings	Ensure civic infrastructure and natural assets are well-maintained and improved/ restored/replaced when necessary so they are more resilient to the anticipated effects of climate change.	Integrated Stormwater Management Plans Official Community Plan
Natural Environment													
16	Continue to increase public awareness and engagement with environmental programs	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves community livability/ vitality	Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.	Council Strategic Plan
17	Develop an Urban Forest Management Strategy	Major Project	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves biodiversity/habitat creationImproves water retention/absorptionImproves air/water qualityImproves community livability/ vitalityReduces burden on grey infrastructureCaptures pollutantsIncrease carbon storage/sequestrationReduces extreme temperatures	Restore/strengthen our urban forests, which provide benefits such as: reducing emissions by storing carbon; providing shade, moderating air temperature, deflecting strong winds; and improving air quality.	Outstanding Council motion
18	Implement strategies to protect, restore, and connect ESAs city-wide	Quick Win	2021	\$ 40,000	\$ 40,000	2021 funding approved through 2021 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves biodiversity/habitat creationImproves air/water qualityImproves community livability/ vitalityCaptures pollutantsIncrease carbon storage/sequestrationReduces extreme temperatures	Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.	Parks and Recreation Master Plan Environmentally Sensitive Areas Strategy
19	Develop climate resilient landscaping strategies for public lands	Best Bet	2021	\$ 20,000	\$ 55,000	2021 funding approved through 2021 budget	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves biodiversity/habitat creationImproves water retention/absorptionImproves air/water qualityImproves community livability/ vitalityReduces burden on grey infrastructureCaptures pollutantsIncrease carbon storage/sequestrationReduces extreme temperatures	Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.	Council Strategic Plan
20	Improve Standards for Erosion and Sediment Control for new developments and City projects.	Quick Win	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves water qualityReduces burden on grey infrastructureReduces pollutants	Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.	Council Strategic Plan Official Community Plan
21	Develop and implement a natural assets management plan with consideration of a carbon budget.	Major Project	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves biodiversity/habitat creationImproves water retention/absorptionImproves air/water qualityImproves community livability/ vitalityReduces burden on grey infrastructureCaptures pollutantsIncrease carbon storage/sequestrationReduces extreme temperatures	Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.	Outstanding Council motion
Organization Wide - Enabling Measures													
22	Develop policy and procedures to embed climate mitigation and adaptation considerations throughout day-to-day City business.	Best Bet	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Supports the local economyJob creationImproves cost savingsEnhances local autonomy	Embed an LCR climate lens into City processes.	Official Community Plan
23	Integrate climate budgets in the municipal budget process.	Best Bet	2021	\$ -	\$ -	N/A	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<div><div></div></div>	<ul style="list-style-type: none">Improves cost savingsSupports the local economy	Embed an LCR climate lens into City processes.	Official Community Plan
New Position Request													
A.	Temporary Full Time Sustainability Position		2021	\$ 98,000	\$ 98,000	No funding source identified. Possible grant funding of \$21,000 annually	Impacts City's ability to undertake this pace of climate action	Impacts City's ability to undertake this pace of climate action					
				Total Annual Costs 2021	\$486,000.00	\$ 2,135,700.00							
				Outstanding Funding amount	\$128,000.00								