

## Attachment B: Examples of how to accelerate GHG emissions reduction or align with the IPCC's 1.5°C target

	What we are doing	Accelerate progress (requires additional staff and/or financial resources)	Examples of options to align with 1.5 degrees (requires additional staff and financial resources)
Overall	Community Climate Action Plan	Accelerate the implementation timeline	Revisit the plan to develop targets and actions that align with 1.5°C.
The way we get around	Develop an Electric Vehicle Strategy (CCAP Action T6)	Accelerate implementation of the EV Strategy once complete	Support and implement policy and programs so that by 2030 over half of all vehicle kilometers traveled are zero emission vehicles (e.g., rapid expansion of public EV charging infrastructure, retrofit existing multifamily with EV charging facilities, provide incentives for EV vehicle purchase, support the emergence of small electric vehicles such as e-scooters and e-bikes).
	Continue improving public transit service delivery (CCAP Action T3)	Expand transit service and delivery	Service all frequent transit corridors as identified in the draft 2040 OCP Future Land Use Map. Support transit recommendations in the draft Regional Transportation Plan. Support increased transit investment in the upcoming Transportation Master Plan. By 2030 majority of residents have easy access to frequent transit.
	Implement capital projects from the Pedestrian and Bicycle Master Plan (CCAP Action T2)	Accelerate implementation of the Pedestrian and Bicycle Master Plan through additional investments to make the community more walkable.	Invest more into alternative transportation, prioritizing alternative modes through proximity, connectivity and urban design (CCAP Ambitious Action AA2), accelerating the PBMP implementation. Support increased investment in neighbourhood streets and bicycling in the upcoming Transportation Master Plan.  By 2030 most residents are within an easy walk / cycle of their daily needs.
	-	Conduct a regional study to determine local feasibility, effectiveness and legislative authority for transportation pricing strategies for vehicle kilometers traveled and/or fuel consumption. (CCAP Ambitious Action AA3)	Implement transportation pricing strategies once regulatory tools available.
	-	Reducing idling by Implementing an anti-idling bylaw (CCAP Action T9) and Update the Zoning Bylaw to restrict drive-through uses (CCAP Action T7)	
	-	Encourage flexible work from home policies with major employers in Kelowna to reduce VKT.	Investigate options for a regional fuel tax (CCAP Action T12)

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		Enhance Kelowna's TDM program (CCAP Action T8) by promoting shared and new mobility options to maximize availability of these modes to residents and visitors.	
The energy we use in buildings	<ul style="list-style-type: none"> <li>Implemented Step 1 of Energy Step Code for Part 9 buildings (and advance to Step 3 in 2021) (CCAP Action B5)</li> <li>Developing implementation strategy for Part 3 buildings. (CCAP Action B9)</li> </ul>	Investigate adopting upper steps (i.e., Steps 4 and 5 for part 9 buildings; Steps 3 or 4 for Part 3 buildings) once the Province makes it available and develop an implementation timeline (CCAP Action B10)	<ul style="list-style-type: none"> <li>Require the highest steps of Energy Step Code for Part 9 and Part 3 buildings so that the thousands of buildings constructed between now and 2032 (when the Province fully implements the Energy Step Code) incorporate efficiency measures which will have lasting impacts to building performance. (CCAP Ambitious Action AA3).</li> <li>Use the Energy Step Code framework to incentive low carbon energy systems and/or low GHG intensity</li> </ul>
	Developing a Community Energy Retrofit Strategy (CCAP Action B4)	<ul style="list-style-type: none"> <li>Investigate financing models and provide municipal incentives to support city-wide deep energy retrofits to target 1 per cent of the existing building stock with a minimum 30 per cent improvement in energy efficiency (CCAP Action B10)</li> <li>Encourage home energy labelling at the time of lease or sale.</li> </ul>	<ul style="list-style-type: none"> <li>Lobby Province so that by 2030 all new and replacement heating and hot water systems are zero emission.</li> <li>Aim to have 10 per cent of the existing building stock retrofitted annually, achieving at least a 30 per cent improvement in energy efficiency</li> <li>Provide more generous financial incentives for energy efficient and/or low GHG emission technology (e.g., electric air-source heat pumps, deep energy retrofit packages)</li> </ul>
		Encourage major commercial and industrial businesses to report on their GHG emissions.	
The waste we create	Implement the Solid Waste Reduction Plan (CCAP Action W1)	Incorporate new programs (such as household organics diversion and composting) to accelerate implementation of the Solid Waste Management Plan (i.e. to reduce per capita disposal from 681 to 600 kg/capita prior to 2022)	Transition to a circular economy to maximize value of resources and minimize waste.
		Investigate and if feasible implement a digestion process to reduce biosolid volume at the Wastewater Treatment Facility (WWTF)	Implement a digestion process to reduce biosolids and produce renewable natural gas.
Planning our Community	Develop 2040 OCP in conjunction with TMP (CCAP Action LU4) Other related CCAP actions include B8, LU5, LU6)	Accelerate implementation of the OCP (once complete)	Incorporate revised GHG emissions reduction targets and associated actions in the OCP.

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		Amend OCP Policy and Zoning Regulations for shared parking facilities in new and existing developments (CCAP Action LU7)	
	Apply an infrastructure cost analysis to major OCP amendments (i.e. Model City) (CCAP Action LU3)	Prohibit new subdivisions on lands that are not already zoned as identified in the growth strategy for the 2040 OCP Update. <sup>1</sup>	
<b>The Energy We Generate</b>		Work with others to develop low carbon energy alternatives such as renewable natural gas, district energy, solar and geothermal.	Transition to 100% renewable energy by 2050
<b>Other</b>	Investigate developing a Climate Adaptation Plan (CCAP Action O6a)	Develop a Climate Adaptation Plan (CCAP Action O6b)	Develop a Low Carbon Resiliency Plan <sup>2</sup> to include actions for climate mitigation (including more aggressive targets), adaptation and resiliency.
		Investigate the amount of other emissions not addressed in the CCAP (e.g. embodied carbon in construction, emissions from various land use activities, etc.) and develop strategies the City can implement to reduce emissions.	
	Tree Protection Bylaw (CCAP Action O8)	Amend landscape regulations in both Zoning and Subdivision Bylaws to include tree protection and replacement requirements (CCAP Action O4)	
	Implement Urban Forestry Strategy (CCAP Action O1)	Update the Urban Forestry Strategy and then implement	Develop and implement a plan to plant trees and protect forests and green space with the intent of sequestering carbon to vastly reduce emissions.
	Investigate options to "green" the Subdivision and Servicing Bylaw to utilize green infrastructure in development	Expand use of green infrastructure to mitigate and adapt to climate change. Ecological systems, both natural and engineered, designed to mimic natural processes by providing social, economic and environmental benefits.	Maximize the use of green infrastructure
		Implement climate education and engagement campaigns (CCAP Action O11)	

<sup>1</sup> City of Kelowna. Official Community Plan 2040 Growth scenario overview. [https://www.kelowna.ca/sites/files/1/docs/growth\\_scenario\\_overview\\_ocp\\_tmp\\_2019.pdf](https://www.kelowna.ca/sites/files/1/docs/growth_scenario_overview_ocp_tmp_2019.pdf)

<sup>2</sup> COP23 Fiji. <https://cop23.com.fj/mitigation-adaptation-resilience/> The three pillars of the response to global warming: 1. Mitigation: slowing the rate of global warming 2. Adaptation: taking steps to live with the effects of global warming 3. Resilience: become more resilient to the effects of climate change.