



Purpose

- ► THAT Council **receive, for information**, the staff report on the Climate and Environment Review;
- ► AND THAT Council endorse the Framework and recommended initiatives outlined in the Climate Resilience & Environmental Stewardship Review: Framework and Recommendations Report;
- ► AND FURTHER THAT Council direct the City Manager to work with staff in bringing Recommendations and priority Quick Starts into the 2023 budget process.



Importance



Greenhouse Gas Emissions



Impacts on Natural Areas



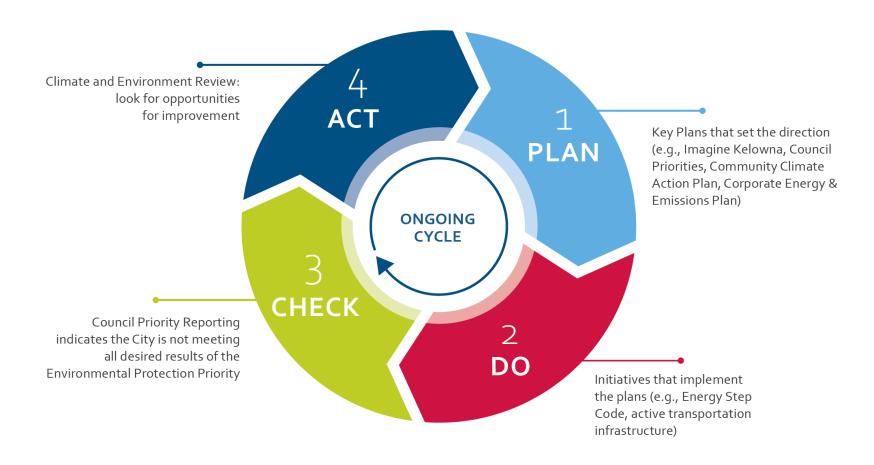
A Changing Climate



Waste



Motivation



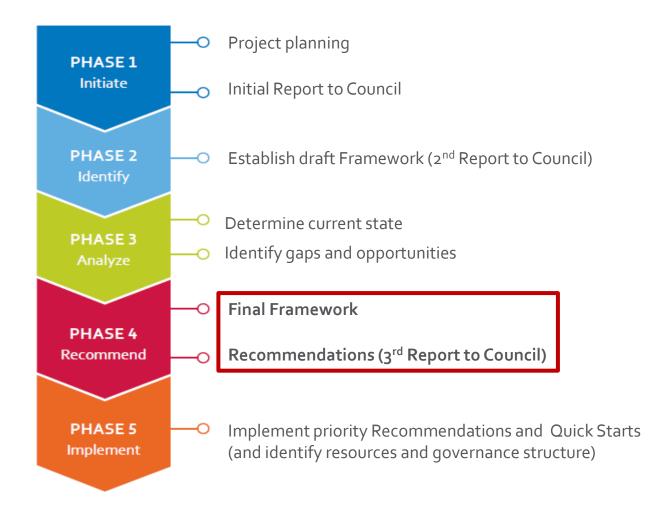


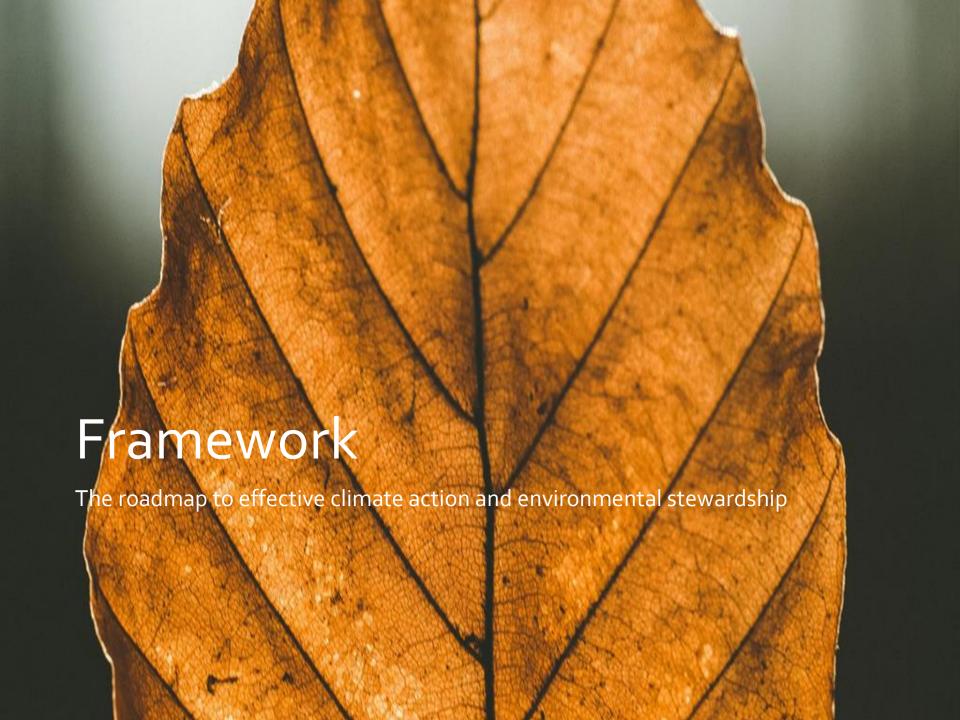
Objectives

- ► Establish a Framework that will define and guide Climate Action & Environmental Stewardship (C&E) focal points.
- ► Identify current gaps and future opportunities to advance corporate C&E performance.
- Develop recommendations/solutions that, if implemented, will result in tangible progress related to the City's C&E objectives.



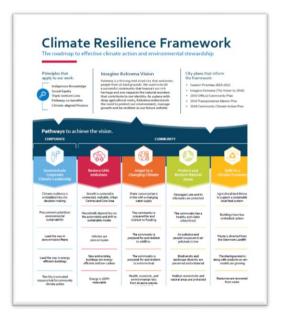
Process







Framework



"Kelowna is a thriving mid-sized city that welcomes people from all backgrounds. We want to build a successful community that honours our rich heritage and also respects the natural wonders that contribute to our identity. As a place with deep agricultural roots, Kelowna understands the need to protect our environment, manage growth and be resilient as our future unfolds."





Demonstrate Corporate Climate Leadership



Reduce community GHG emissions



Adapt to a Changing Climate



Protect Natural Areas



Shift to a Circular Economy



Pathways



Demonstrate Corporate Climate Leadership

- Climate Lens
- Sustainable Procurement
- Zero-Emission Fleet
- Low-Emission Buildings
- Supportive Resources



Reduce community GHG emissions

- Walkable, Connected City
- Alternative Transportation
- Zero-Emission Vehicles
- Low-Emission Buildings
- Renewable Energy



Adapt to a Changing Climate

- Water Conservation
- Flooding
- Wildfires
- Extreme Heat
- Invasive Species



Protect Natural Areas

- Okanagan Lake
- Urban Forest
- Air Quality
- Biodiversity
- Healthy Ecosystems



Shift to a Circular Economy

- Local Agriculture
- EmbodiedCarbon
- Waste Reduction and Diversion
- Resource Recovery from Waste
- Sharing Economy



Principles

- ► Recognize the value of local syilx Indigenous Knowledge
- Consider Social Equity in decisionmaking and implementation
- Prioritize initiatives with "triple-bottomline" benefits
- Prioritize initiatives with co-benefits between Pathways
- ▶ Balance short-term savings with costs of inaction



Source: Shaw et al. (2021). A Low Carbon Resilience Decision Tool for Local Government



Use Cases

Used For:	Used By:	
Policy and Plan Development	StaffCouncil	
Decision-Making	Staff (Senior Leadership Team)Council	
Action Plans	StaffNeighbouring local governments	
Progress Reporting	StaffCouncilPublic	
Communication	• Everyone	
Applied Research	AcademiaNon-Profits	

Recommendations

A set of recommendations that outline opportunities and "Quick Starts" to advance the Framework

Corporate Climate Leadership: Climate Lens



Gap

Climate impacts and opportunities are not systematically considered in all City decisions

Recommendation

Apply a Climate Lens for decision making across the organization

Quick Starts

- Develop a climate lens decision making tool
- Develop an internal carbon price to guide climate-friendly purchasing





Corporate Climate Leadership - Green Standards

Gap	Recommendation	Quick Start
No standards to ensure new buildings and renovations to existing buildings are built to a defined energy or emissions standard	Develop 'green' standards for City facilities	Develop and apply a sustainable building policy for <u>new</u> City buildings







Reduce GHG Emissions - Transportation

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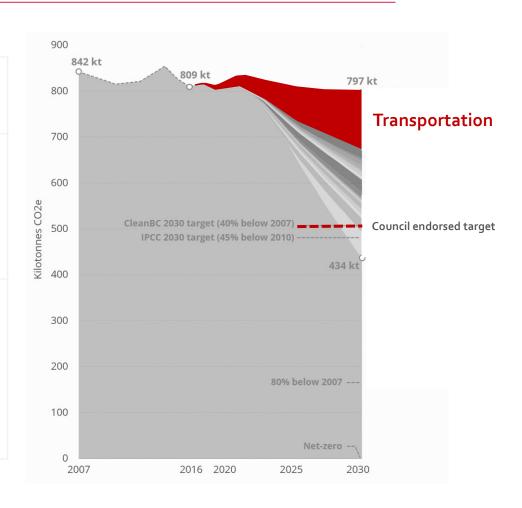
Emissions reductions not at level needed to meet targets

Recommendation

Prioritize efforts to decarbonize Kelowna's biggest source of emissions: Transportation

Quick Starts

- Continue to invest in transit service and active transportation infrastructure per the TMP
- Fund and implement Transportation Demand Management Initiatives
- Support the shift to EVs through a vast charging network







Reduce GHG Emissions - Resilient Retrofits

Gap

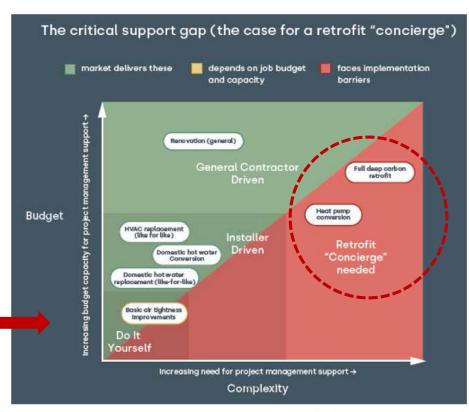
Retrofits not occurring at the required rate and scale

 Climate resilience measures not included in retrofit programming

Recommendation

Bring together energy and resilience into one Home Retrofit Program

- Quick Starts
- Continue to design a home retrofit program through FCM Community Efficiency Financing Program
- Pilot a Home Energy Concierge support service
- Direct incentives to proven low-carbon technologies



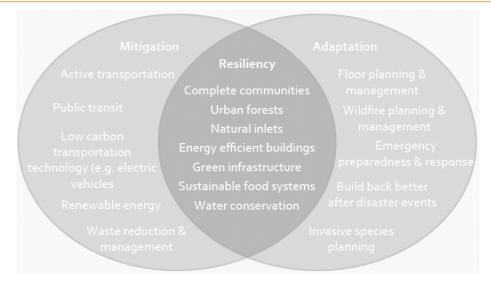
Source: OPEN Technologies & VanCity (2022). Stuck.







Gap	Recommendation	Quick Start
Climate adaptation planning has not occurred at the community level, considering all potential climate impacts	Combine Climate Mitigation and Adaptation into one Strategy	Complete a Community Climate Vulnerability and Risk Assessment





Adapt to a Changing Climate - Green Infrastructure



Gap

Recommendation

Duick Start

No systematic, coordinated approach to green and blue

No value from roof space

infrastructure

Develop a strategy to expand blue and green infrastructure

Explore options to incorporate climate resilience in roof space for new construction



Protect Natural Areas: Regional Response



Gap	Recommendation	Quick Start
Many recommended initiatives from regional strategies related to the natural environment not addressed by the City	Develop a Natural Environment Strategy with City responses to key regional or provincial plans and strategies	Inventory and develop City responses to regional and provincial natural environment strategies. For example: Okanagan Region Biodiversity Strategy kłúsžnítkw (Okanagan Lake) Responsibility Planning Initiative
		 Central Okanagan Non- Structural Flood Mitigation Resource Guide

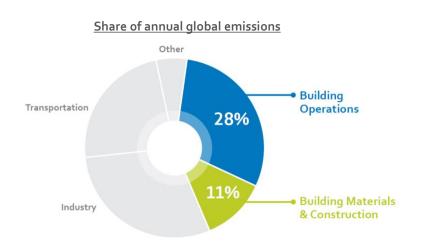


Shift to a Circular Economy - Construction Waste



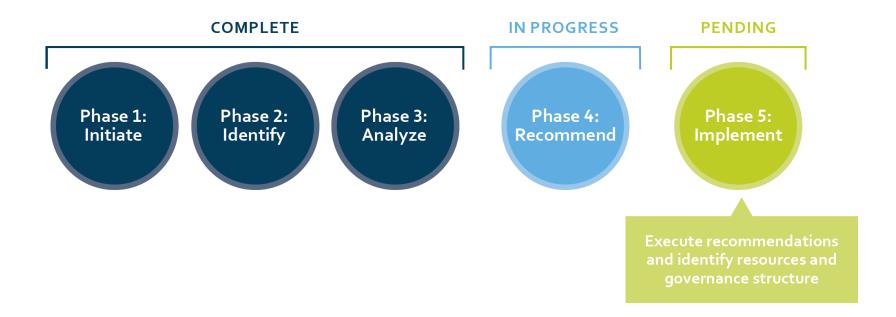
Gap	Recommendation	Quick Start
~35-40% of waste disposed at the landfill is construction and demolition debris (CDD)	Focus waste reduction diversion efforts on CDD	Complete a CDD Reuse & Recycling Feasibility Study Explore policy for low- carbon concrete







Next Steps





Questions?