

Overview, Update, and Next Steps



Agenda

- ▶ Background
- ► Climate & Environment Framework
- ► Status Update
- Next Steps

Why do we care?



Greenhouse Gas Emissions



Impacts on Natural Areas

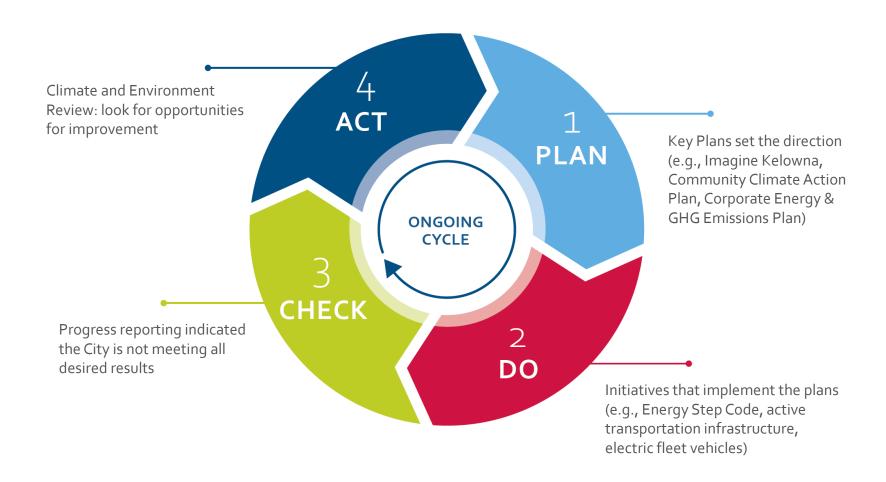


A Changing Climate



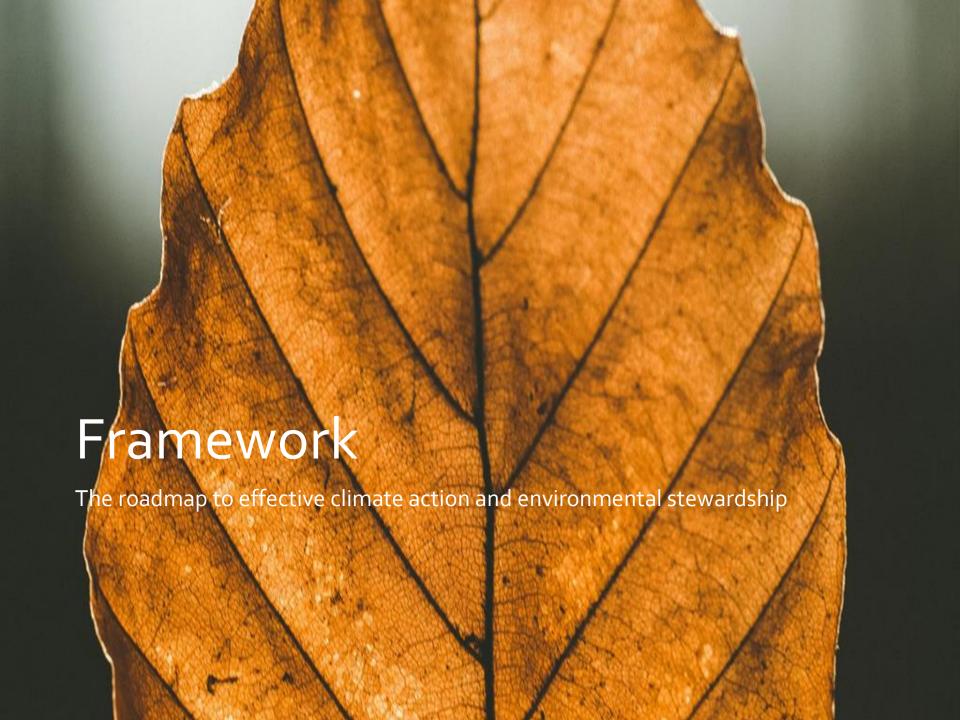
Waste

The City's Recent Approach



Climate and Environment Review: 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
- Community Climate Resources



Reduce community GHG emissions

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



Adapt to a Changing Climate

- WaterConservation
- Flooding
- Wildfires
- Extreme Heat
- Invasive Species



Protect Natural Areas

- OkanaganLake
- Urban Forest
- Air Quality
- Biodiversity
- Healthy Ecosystems



Shift to a Circular Economy

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

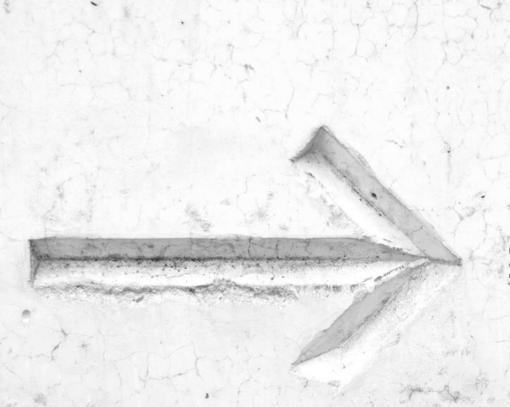
City of Kelowna

Principles

- Recognize the value of local syilx Indigenous Knowledge
- Consider Social Equity in decisionmaking and implementation
- Prioritize initiatives with "multiplebottom-line" benefits
- Prioritize initiatives with cobenefits between Pathways
- Balance short-term savings with costs of inaction



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



Status Update

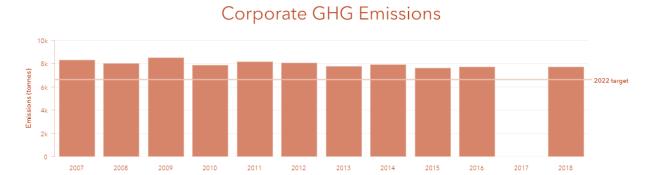


Target:

12% decrease in corporate GHG emissions relative to 2007 levels by 2022.

Progress:

Data to be finalized through the *Strategic Energy Management Plan* (SEMP)



Data: City of Kelowna, reliable data not available for 2017



2022 - Progress

- Began development of new SEMP
- Implementing the *Green Fleet Strategy*.
- Successful Zero-Emission
 Vehicle Infrastructure Program
 (ZEVIP) grant application for
 corporate EV chargers.

<u> 2023 - Planned</u>

- Finalize the SEMP
- Develop a Corporate Green Building Policy
- Begin the development of a Climate Lens Decision Making Tool
- Continued decarbonization of the City's fleet and installation of EV charging



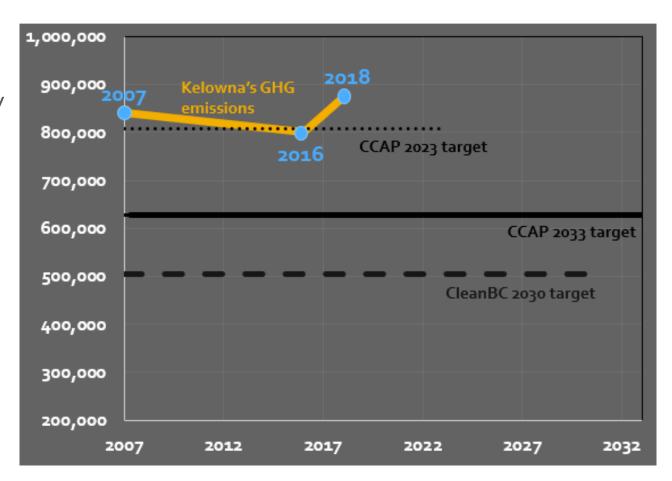
Target:

4% decrease by 2023 relative to 2007 levels

Progress:

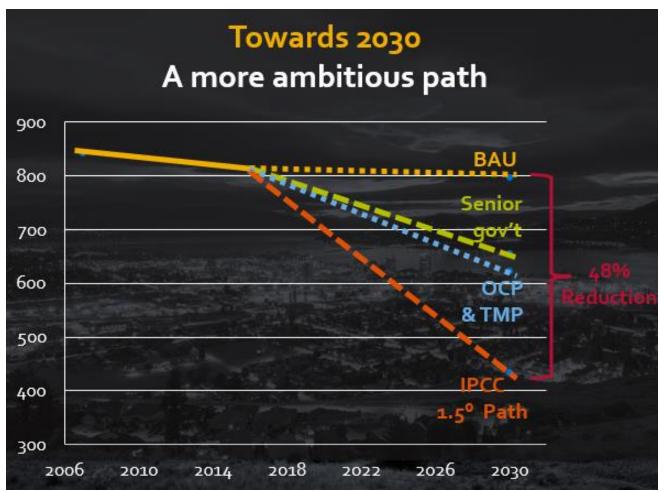
2018 - 3.7% increase

*17% decrease per capita





Community GHG Emissions





2022 - Progress

- Began development of new Climate Resilient Kelowna Strategy
- Addition of five Level 2 and eight Level 1 public EV charging stations
- 25 municipal top-ups distributed in 2022 for fuel switching to air source heat pumps
- Implementation of the 2040 TMP
- Adopted Anti-Idling Bylaw

2023 – Key Initiatives

- Complete Climate Resilient Kelowna Strategy
- Develop and implement a pilot Home Energy Concierge Program for existing homes
- Enhance programs to incentive heat pump adoption
- Continue the installation of public EV charging stations
- Continue initiatives to increase EV charging in multi-unit residential



Adapt to a Changing Climate

No established KPIs yet

2022 - Progress

- Continued development of new Climate Resilient Kelowna Strategy
- Completed new Community Wildfire Resilience Plan
- Launched FireSmart Community Chipping Pilot Program
- Mill Creek Flood Protection Project

2023 – Key Initiatives

- Complete Climate Resilient Kelowna Strategy
- Continue FireSmart Community Chipping Program
- Implement the Community Wildfire Resilience Plan
- Continue Mill Creek Flood Protection Project
- Explore resilient roof space policy options



Protect and Restore Natural Areas

OCP Tree Canopy Targets:

- 12% Urban Centres
- 20% Core Areas
- 25% Remainder of City

These targets are being reviewed through the Sustainable Urban Forestry Strategy

Progress:

Current canopy coverage is being calculated through the Sustainable Urban Forestry Strategy





Protect and Restore Natural Areas

2022 - Progress

- Began development of new Sustainable Urban Forestry Strategy
- Collaborating with RDCO to complete an updated Sensitive Ecosystem Inventory (SEI)
- Continued implementation of NeighbourWoods Program

2023 – Key Initiatives

- Complete Sustainable Urban Forestry Strategy
- Continue NeighbourWoods Program
- LiDAR assessment and analysis for key environmental indicators
- Initiate development of the Landscape Standards Bylaw



RDCO Waste Diversion Target:

Average municipal solid waste disposal rate of 600 kilograms per capita by 2022

Progress:

639 kilograms per capita in 2020 (2021 and 2022 data expected in 2023)

Note: RDCO has a waste diversion target of 50 per cent by 2022. Metric is not calculated/tracked.





2022 - Progress

- Joined the Canadian Circular Cities and Regions Initiative (CCRI) Peerto-Peer Network
- Initiated a Construction & Demolition Debris Study in partnership with the RDCO
- Hired a two-year term Agricultural Planner in Development Planning

2023 – Key Initiatives

- Determine 'circular' opportunities through the CCRI Program
- Complete Construction & Demolition Debris Study
- Complete deconstruction of Cityowned homes

Next Steps

- ▶ Develop or update KPIs for each pathway
- ► Implement Quick Starts from Climate and Environment Review (and other project planned for 2023)
- Finalize key plans:
 - ▶ Climate Resilient Kelowna Strategy
 - Sustainable Urban Forestry Strategy
 - Strategic Energy Management Plan
- Set governance structure related to new Climate Action & Environmental Stewardship Manager position



Questions?