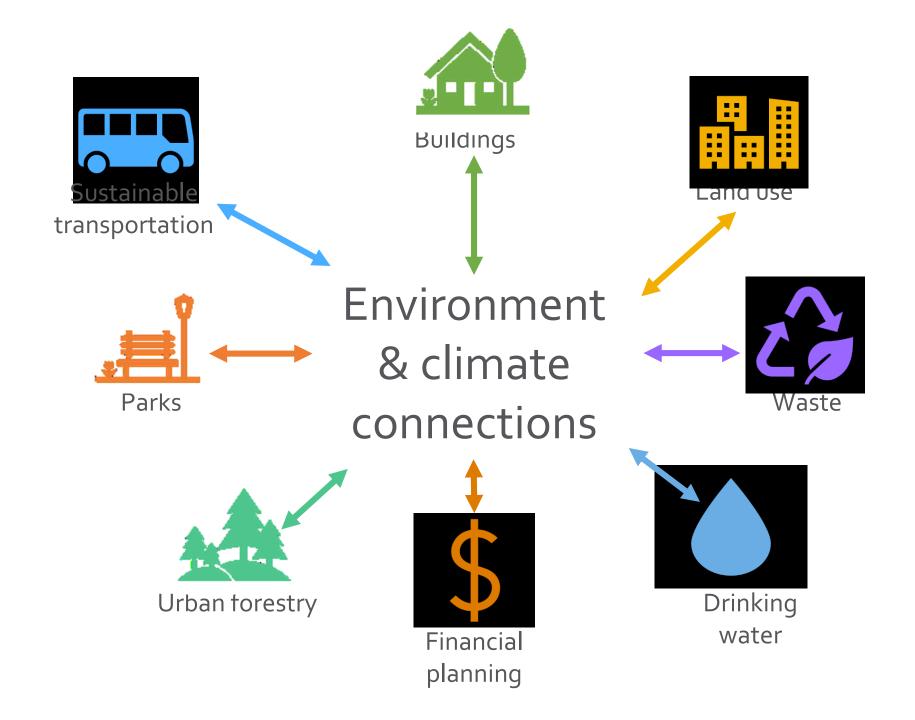


# Update on Environmental Protection Council Priority

June 2020







#### Kelowna's natural environment

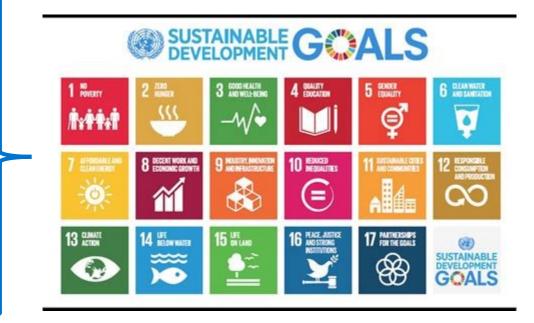
- 27 creeks
- > 200 wetlands
- Ecosystems for fish and wildlife
- Habitat for rare and threatened plant and animal species
- 28% assessed as sensitive
- Critical migration corridor
- Good air quality

# Assessing progress on environmental protection

- Clean water
- Clean air
- Clean energy
- Habitat protection
- Biodiversity
- Waste reduction
- Climate mitigation
- Climate adaptation

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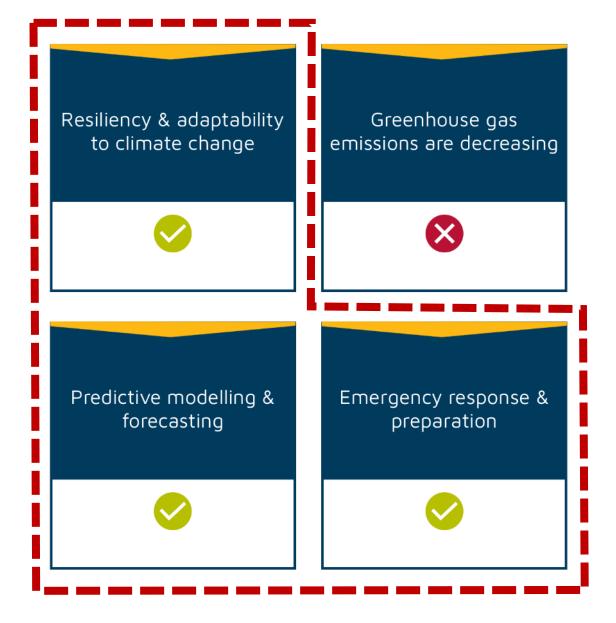
# Assessing progress on environmental protection

#### Clean water

- ► Clean air
- ► Clean energy
- Habitat protection
- ► Biodiversity
- ► Waste reduction
- Climate mitigation
- Climate adaptation



#### Council Priority: Environmental Protection



# Climate projections



Warmer temperatures



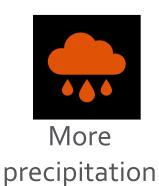
Drier summers



Longer growing season



Warmer winters





Shifting Seasons

City of Kelowna



Adaptation, modeling, response progress

- Fuel modification
- Flood models
- Irrigation water consumption predictor
- Improvements to stream capacity
- Changes to development standards

City of Kelowna

### Adaptation options

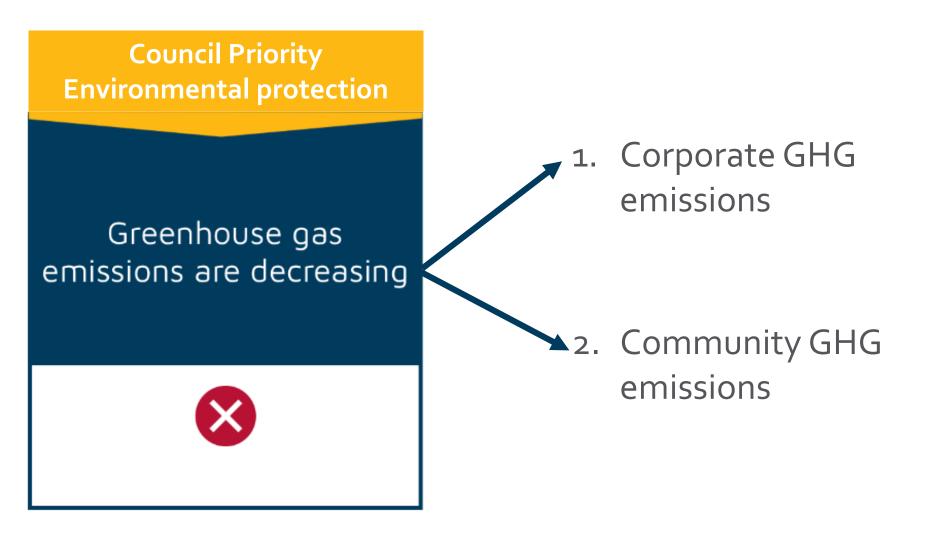
- a. Climate adaptation plan

   actions to live with the effects of global warming
- Climate resiliency plan mitigation and adaptation to become resilient to climate change



#### Council Priority: Environmental Protection

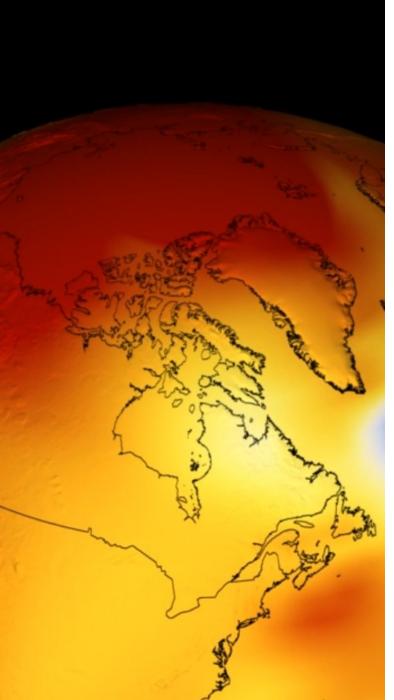




### Corporate GHG Emissions

- Account for approx. 1% of community GHG emissions
- Historical corporate GHG emissions data being reconciled to establish performance trend

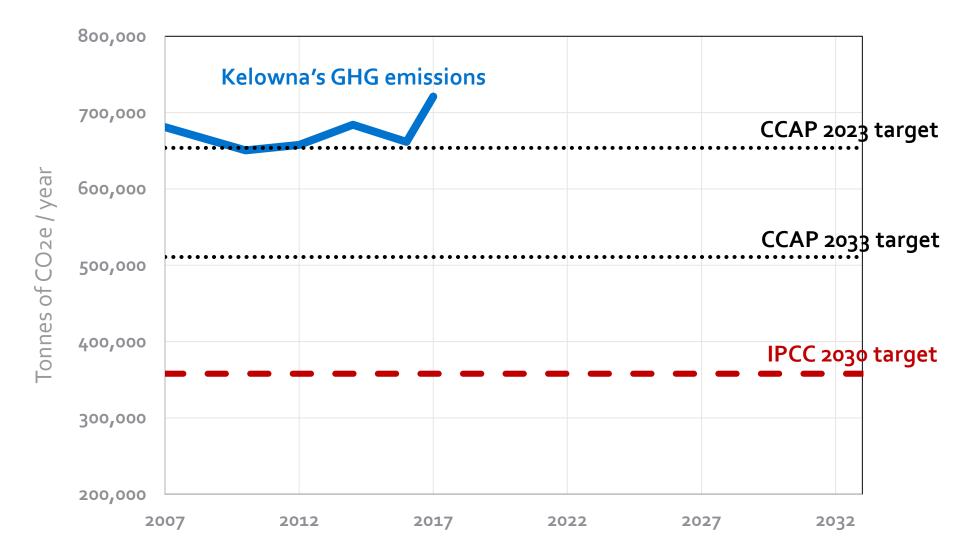




# **Global Emissions**

- Reduce GHG emissions by 45% by 2030
- Limit warming to 1.5 degrees
- Unprecedented change needed for land use, transportation and buildings
- Local governments investigate how to accelerate GHG reduction or determining actions to align with IPCC

#### Kelowna's community GHG emissions



### CCAP progress

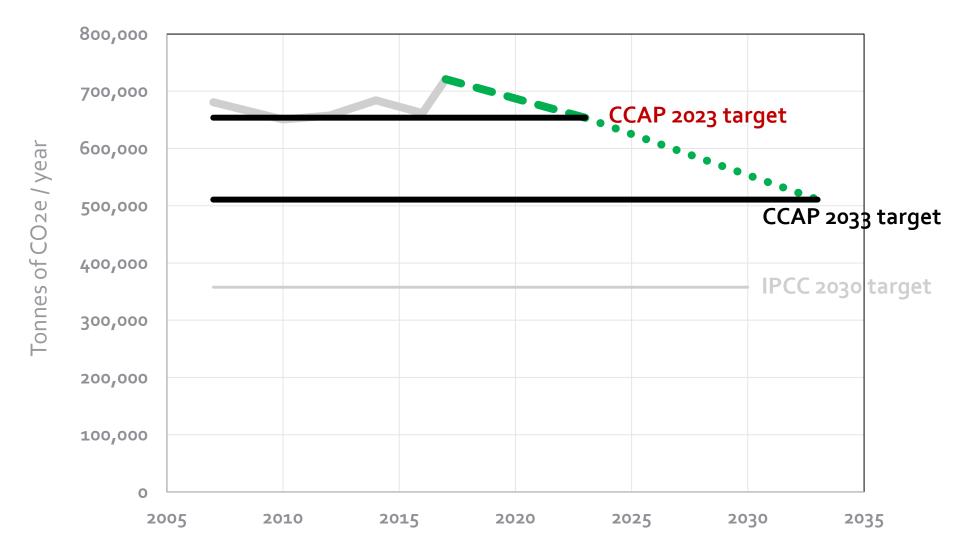
	Actions with existing resources				Actions with additional resources			
	Ongoing/ Complete	ln progress	Not started	Total actions	Ongoing/ Complete	In progress	Not started	Total actions
Ongoing	11	2	0	13	0	0	2	2
Years o - 2 (2018 - 2020)	5	11	3	19	0	4	1	5
Years 3 - 5 (2021 – 2023)	0	1	1	2	0	3	3	6
Total	16	14	4	34	0	7	6	13



### **GHG** Emissions Reduction Options



### **Option: Accelerate Progress on CCAP**



### **Option: Accelerate Progress on CCAP**

Direction to accelerate progress on CCAP actions Work with affected City departments to determine workplan impacts

Assess financial and staff implications

Report back to Council

# Example: Accelerate Progress for **Transportation**

What we are doing	Develop an Electric Vehicle Strategy (CCAP Action T6)
Accelerate progress	Accelerate implementation of the EV Strategy once complete



# Example: Accelerate Progress in **Buildings**

What we are doing	Developing a Community Energy Retrofit Strategy (CCAP Action B4)
Accelerate progress	Investigate financing models and provide municipal incentives to support city-wide deep energy retrofits (CCAP Action B10)

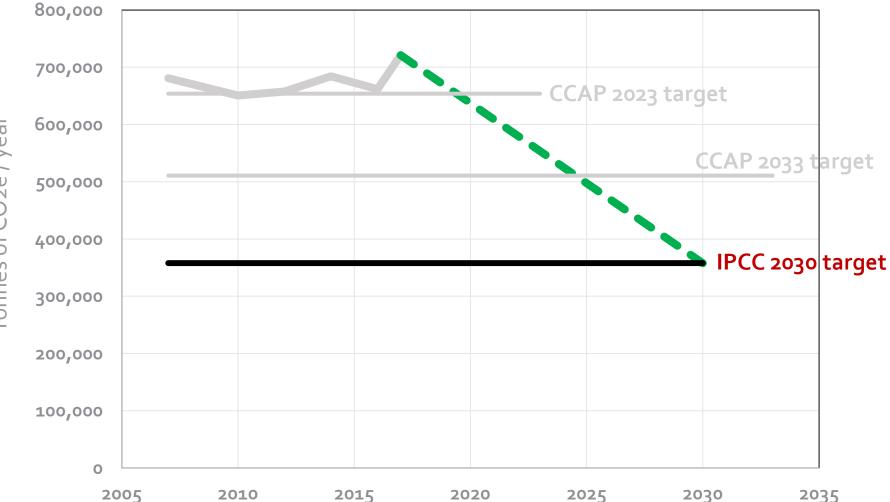


# Example: Accelerate Progress for **Planning**

What we are doing	Develop 2040 OCP in conjunction with TMP (CCAP Action LU4)
Accelerate progress	Accelerate implementation of the OCP (once complete)



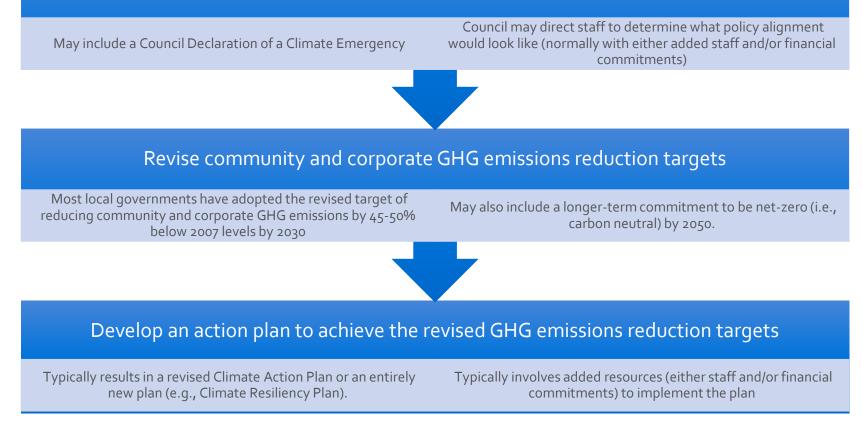
## Option: Align with IPCC targets



Tonnes of CO2e / year

# Option: Align with IPCC targets

#### Agree to align with the IPCC recommendations to limit global warming to 1.5 °C by 2030



City of Kelowna

# Example policies to align with IPCC



By 2030, over half of the kilometres driven on Kelowna's roads will be by zero emissions vehicles.



Increase bicycle ridership and micro electric mobility to reach 10% of all trips taken by 2030, with further increases to 2050.



Each year, 10% of existing residential buildings will receive deep energy retrofits.

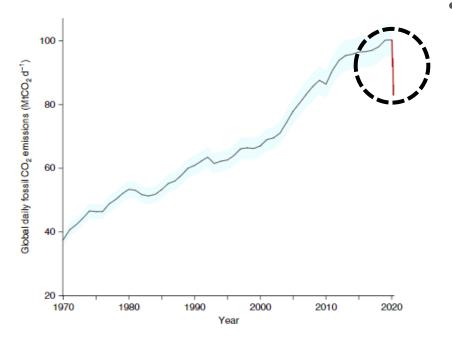


All new buildings will meet the top performance level of the BC Energy Step Code by 2025, with incentives for new buildings to install low-carbon energy systems.



By 2025, all new and replacement heating and hot water systems will be zero emissions.

## GHG Emissions During COVID-19



- Government policies during COVID-19 restrictions reduced transportation and changed consumption patterns
  - Daily CO<sub>2</sub> emissions decreased by **17%** at the peak of restrictions in April
  - 2020 annual CO2 emissions reduction expected between 4-7%



#### Questions?

#### For more information, visit **kelowna.ca**.