



Community Climate Action Plan: Draft Targets and Actions

November, 2017



Agenda

1. The Case for Climate
2. The Current State
3. Business as Usual
4. Draft Actions
5. Draft Target

The case for climate - flooding



The case for climate



44 days without rain
Capital News Aug 11

Okanagan Escalates to Drought Level 3,

OBWB, Sep 1

Drought could worsen
Castanet, Aug 23

Kelowna's on the verge of having its longest drought ever,
KelownaNow, August 11

Dry summer on verge of setting new record
Kelowna Daily Courier, Aug 10

From spring flooding to drought conditions in the Okanagan
InfoTel, Aug 23

Drought conditions worsen in parts of southern B.C.

Concerns raised over keeping stream levels high enough for salmon and other fish to survive

CBC, Sept 8

The case for climate - fires

*Smoke advisory continues
Kelowna Capital News, Aug 19*

Air Quality (pM2.5): 50.3 $\mu\text{g}/\text{m}^3$



CCAP: a plan to mitigate emissions

- ▶ Understand the current state and business as usual case
- ▶ Actions to reduce GHG emissions
- ▶ How actions reduce emissions
- ▶ Target



CCAP Process

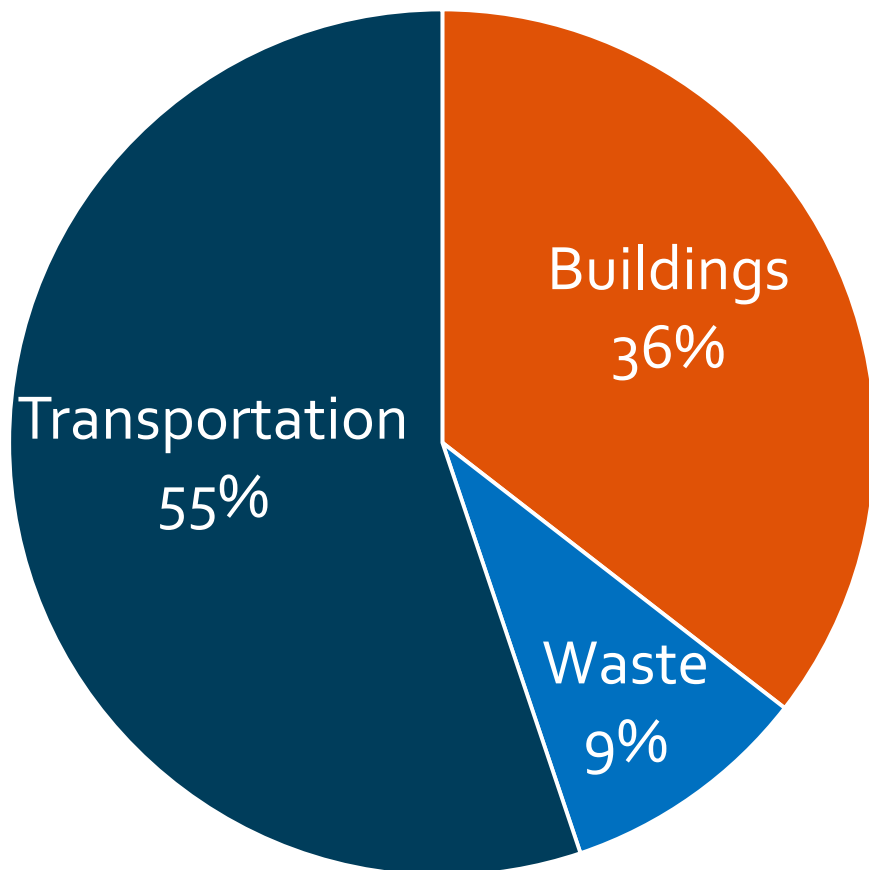


Direction from May 8

1. Develop targets that are realistic and pragmatic
 - ▶ Demonstrate incremental progress and success
2. City positioned as a leader
 - ▶ Not passing responsibility to future generations

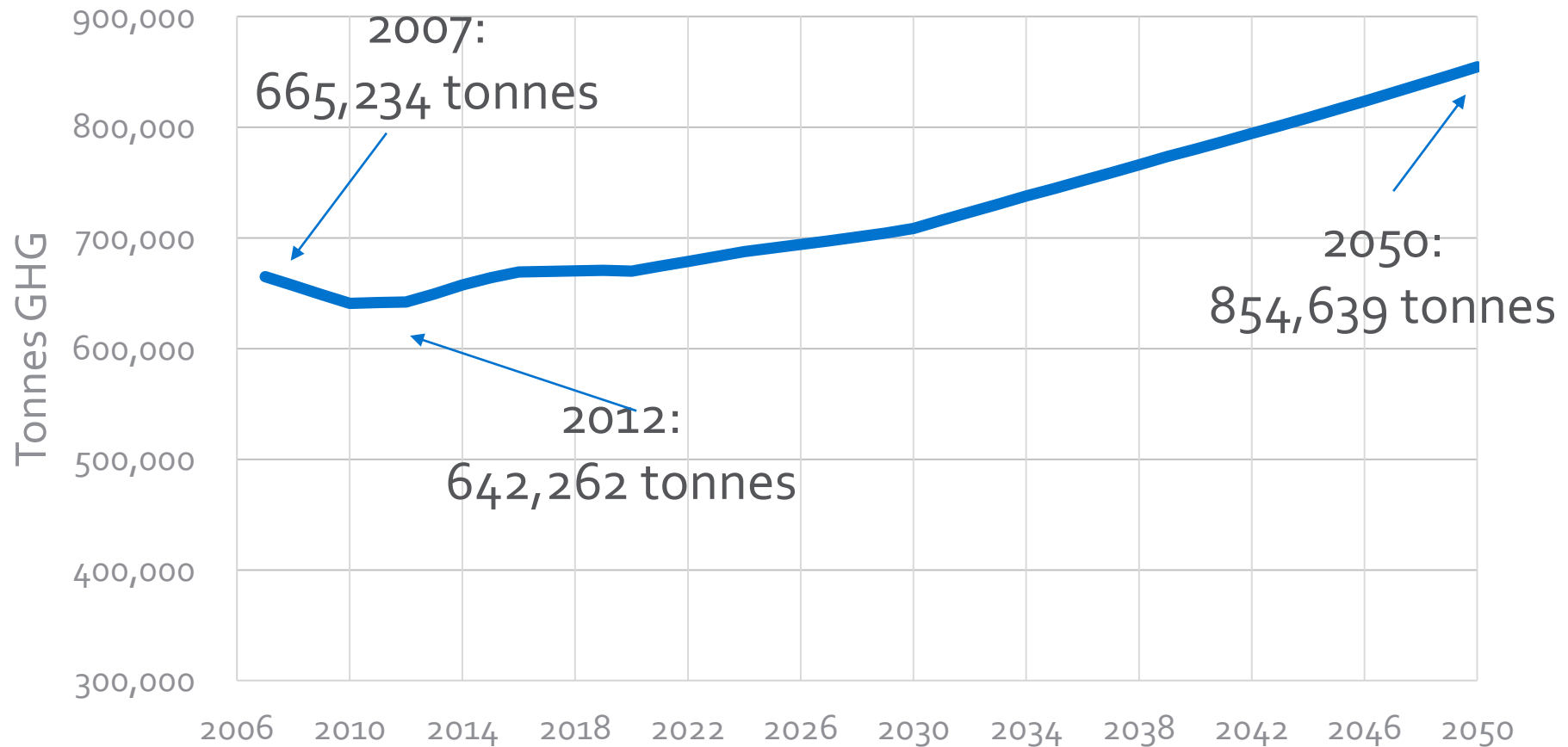


The Current State



Total 2012 GHG Emissions
642,262 tonnes CO₂e

Business as Usual



Draft Actions

Who we heard from:

- ▶ Integrated Transportation
- ▶ Infrastructure
- ▶ Community Planning
- ▶ Development Services
- ▶ Building Services
- ▶ Parks and Building Planning
- ▶ Parks Services
- ▶ Utility Services
- ▶ Fleet Services
- ▶ Fortis BC



Action Categories:

1. The Way We Get Around
2. The Energy We Use in Buildings
3. The Waste We Create
4. Encouraging Renewable Energy
5. Planning Our Community
6. Other Actions
7. Ambitious Actions

The Way We Get Around

- ▶ Develop electric vehicle strategy
- ▶ Implement anti-idling bylaw
- ▶ Enhance TDM programs
- ▶ Restrict drive through uses
- ▶ Implement OCP parking pricing policy
- ▶ Investigate potential for community bike share
- ▶ Investigate alternative fuels for fleets
- ▶ Investigate options for regional fuel tax to support expansion and improvement of alternative transportation.



The Energy We Use In Buildings

- ▶ Develop community energy retrofit strategy
- ▶ Develop Energy Step Code implementation strategy
- ▶ Partner with FortisBC on delivery of programs
- ▶ Investigate OCP DP Guidelines for building energy efficiencies.



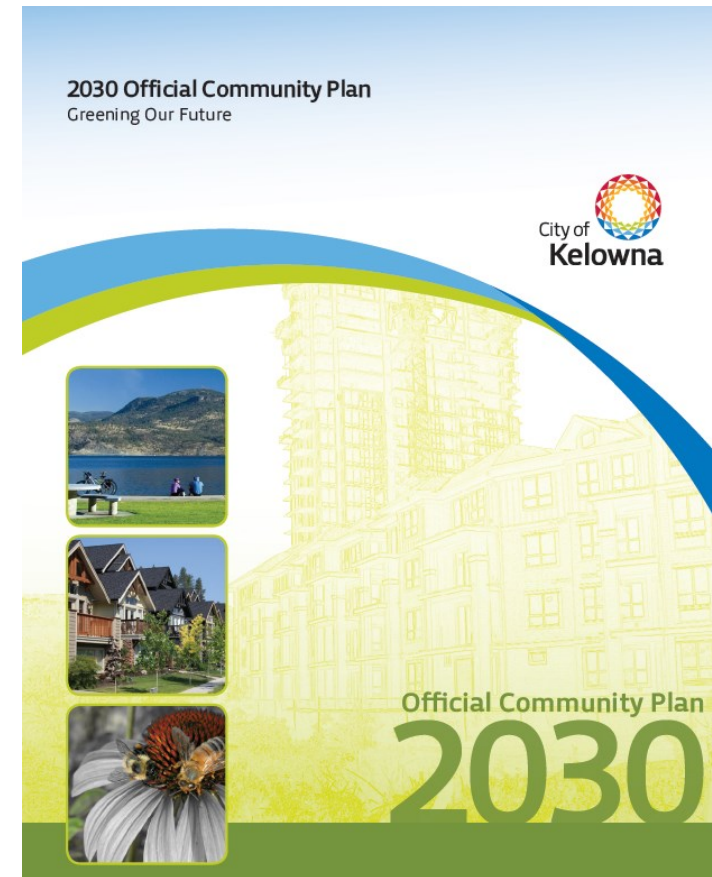
The Waste We Create

- ▶ Implement 2017 Solid Waste Management Plan to achieve 50% waste diversion rate by 2022.



Planning Our Community

- ▶ Amend Zoning Bylaw parking regulations
- ▶ Use infrastructure cost analysis tool for major OCP Amendments and ASP applications
- ▶ Reinforce the OCP Permanent Growth Boundary
- ▶ Coordinate land use and transportation planning
- ▶ Investigate policy options for shared parking facilities
- ▶ Investigate policy amendments for mid-block pedestrian linkages.



Encouraging Renewable Energy

- ▶ Investigate increasing supply of renewable natural gas



Other Actions

- ▶ Amend landscape regulations
- ▶ Investigate developing a Climate Adaptation Plan
- ▶ Imbed energy and GHG objectives in City systems and services
- ▶ Investigate private tree protection bylaw
- ▶ Investigate doing a green economy study
- ▶ Investigate using WWTF treated effluent for irrigation
- ▶ Investigate education and engagement campaigns



Ambitious Actions

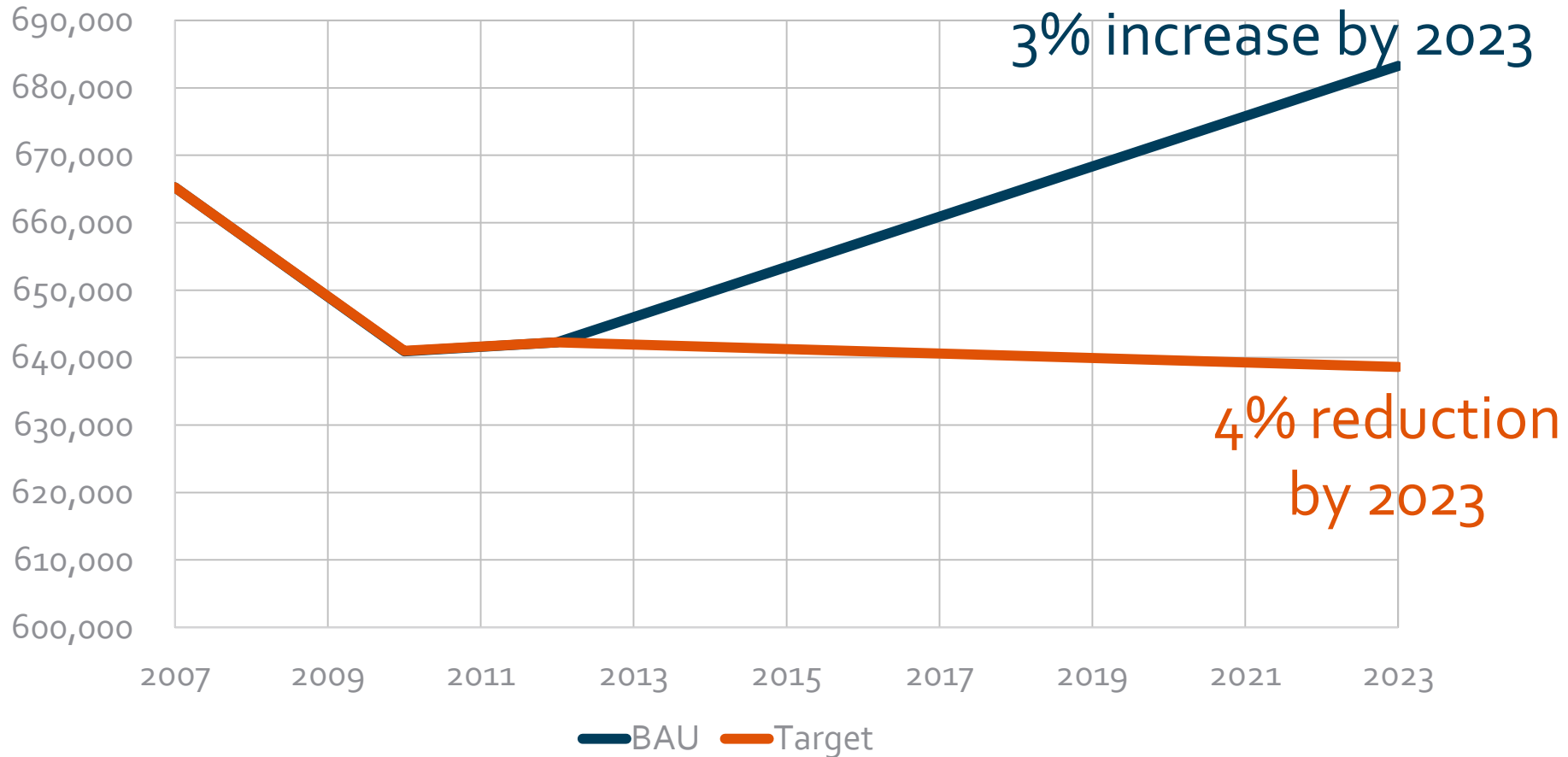
- ▶ Endorse Energy Step Code early
- ▶ Re-evaluate a compact growth strategy for 2040 OCP update
- ▶ Invest more into alternative transportation
- ▶ Investigate transportation pricing strategies.



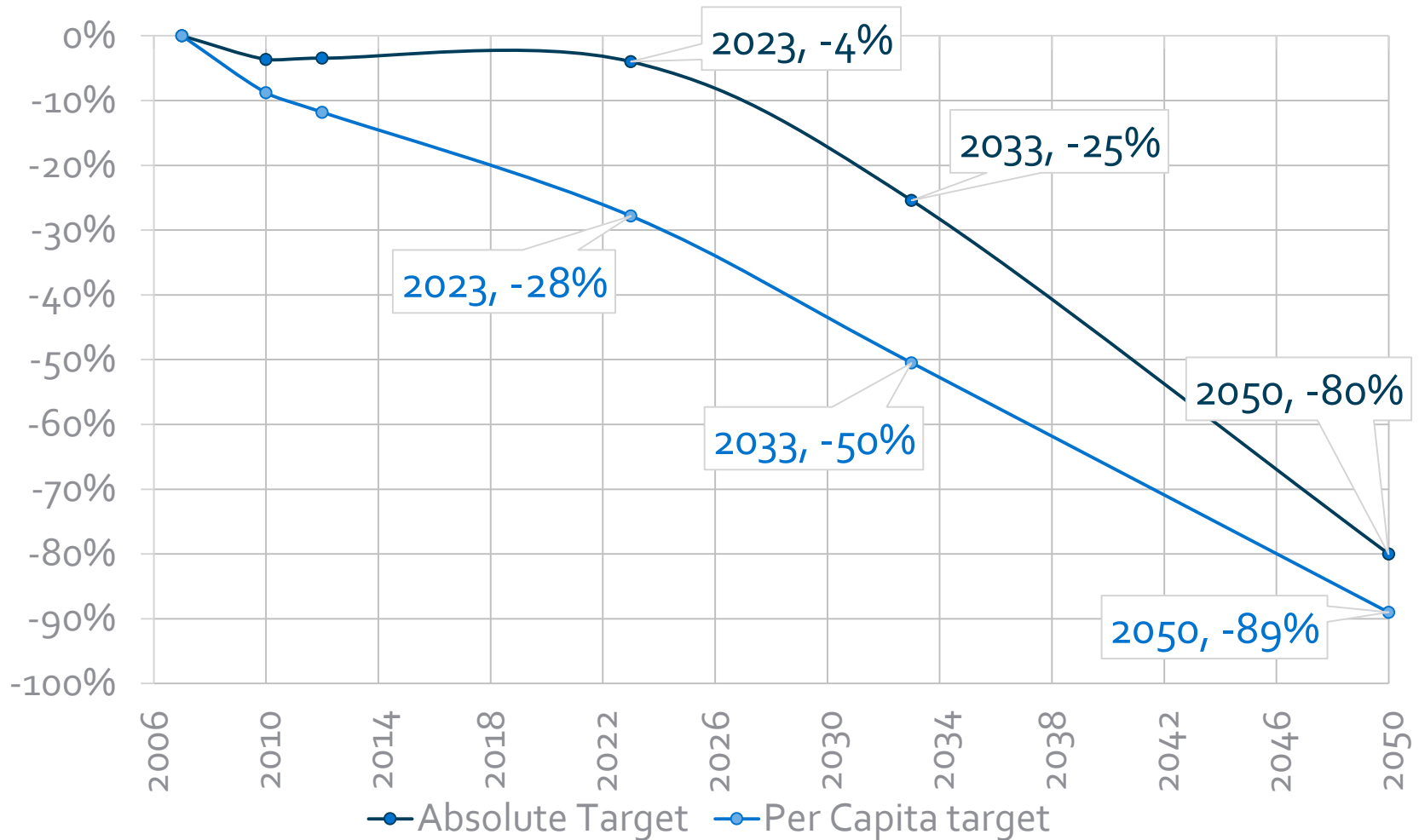
The Quickstart Model

- ▶ Model based on:
 - ▶ Population projections to 2050
 - ▶ CEEI and fuel sales data
 - ▶ Reduction estimated from previous initiatives (e.g. LiveSmartBC retrofit program)
 - ▶ Trends noted in other reports (e.g. Household Travel Survey)
 - ▶ Considers actions that local government have influence on
 - ▶ Reviewed by staff
- ▶ Used by 60 communities to date

Reduction Potential



Draft Targets



The City's Role

- ▶ Policies and programs for energy efficient residential and commercial buildings
- ▶ Prioritize growth in the urban core
- ▶ Alternative transportation investments
- ▶ Expansion of urban forest
- ▶ Demonstrate leadership in corporate initiatives



The Community's Role

*Example of how to reducing emissions
28% per capita (1.2 tonnes)*

▶ Reduce natural gas by 5%	0.20 tonnes
▶ Reduce vehicle km travelled by 5% (bike, walk, transit)	0.26 tonnes
▶ Reduce idling 3 minutes per day	0.08 tonnes
▶ Adopt fuel efficient driving techniques	0.26 tonnes
▶ Improve vehicle fuel efficiency 1 liters/100 km	0.50 tonnes
TOTAL	1.30 tonnes

Next Steps

November 30 2017

Stakeholder Engagement

January 2018

Community Engagement

Jan – Feb 2018

Draft Plan

Feb – Mar 2018

Present Plan to Council



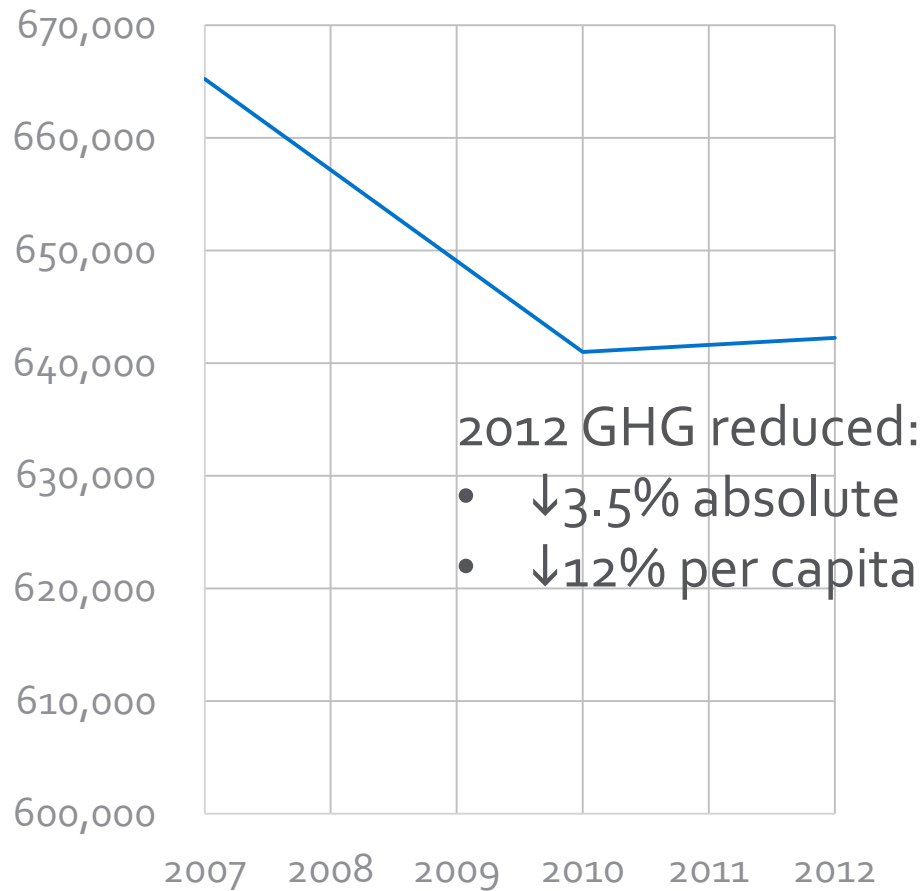
Questions?

For more information, visit kelowna.ca.

Target comparison

Community	2020 target	Other target	2050 target
<i>Kelowna Proposed</i>		<i>4% by 2023 (28% per capita) 25% by 2033 (50% per capita)</i>	<i>80%</i>
Regional District			80%
Penticton	5% (20% per capita)	10% by 2030 (35% per capita)	
New Westminister		15% by 2030	
Surrey	33%		80%
Abbotsford	20% per capita	45% per capita by 2040	
Dawson Creek	33%		85%
Kamloops	40%		
Victoria	33%		
Campbell River	25% (35% per capita)	35% by 2040 (55% per capita) 40% by 2060 (65% per capita)	40% by 2060 (65% per capita)

The Current State



Total 2012 GHG Emissions
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