

City of
Kelowna

Community Climate Action Plan Update

May 8, 2017

Council Workshop Outline

1. Overview of project
2. Background
3. Climate and Health
4. Other municipal examples
5. Deliverables and timelines
6. GHG Target

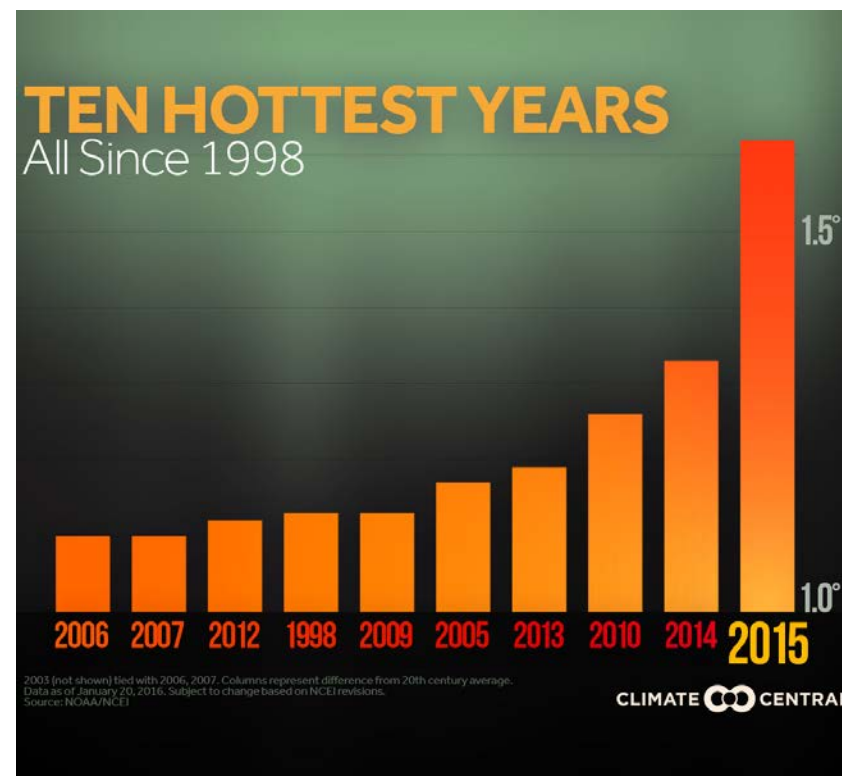


Scientific Facts

“Scientific evidence for warming of the climate system is unequivocal.”

Intergovernmental Panel on Climate Change

- ▶ The earth’s climate is changing
- ▶ The change is being caused by human activities
- ▶ The effects of climate change will worsen if no action is taken



United Nations: Our Future



Dr. Sue Pollock, Interior Health

“The evidence is overwhelming:
climate change
endangers human health.”

Dr. Margaret Chan, WHO Director-General



Interior Health
Every person matters

Co-benefits of climate action

- Strategies that address climate change have co-benefits
 - Improved physical and mental health
 - Current and future generations
 - Less demand on the healthcare system
- Example: healthy transportation network
 - Increased physical activity and social interaction



Health and Climate: co-benefits

Climate Actions (examples)	Health Benefits
Active transportation	<ul style="list-style-type: none">• ↓ obesity• ↓ cardiovascular disease• ↑ mental health
Improve insulation in homes	<ul style="list-style-type: none">• ↓ respiratory disease• ↓ cardiovascular disease• ↑ mental health
Encourage locally produced fruits and vegetables	<ul style="list-style-type: none">• ↓ obesity• ↓ cardiovascular disease

Working together on climate and health

- Plans and strategies that address sustainable transportation, food security, and the natural environment
 - Reduced greenhouse gas emissions
 - Reduced vulnerability and increased resilience
 - Enhanced livability and health and well-being
 - Sharing of local data and tools to inform climate action
 - Integration of health messaging into the climate change discussion
 - Increased public engagement and action
- 

Provincial Legislation

- ▶ Local Government Act requires OCPs to include:
 - ▶ targets for the reduction of greenhouse gas emissions
 - ▶ policies and actions to achieve those targets
- ▶ Climate Action Charter commits local government to the goals of creating complete, compact, energy efficient communities
 - ▶ signed by 182 municipalities including Kelowna

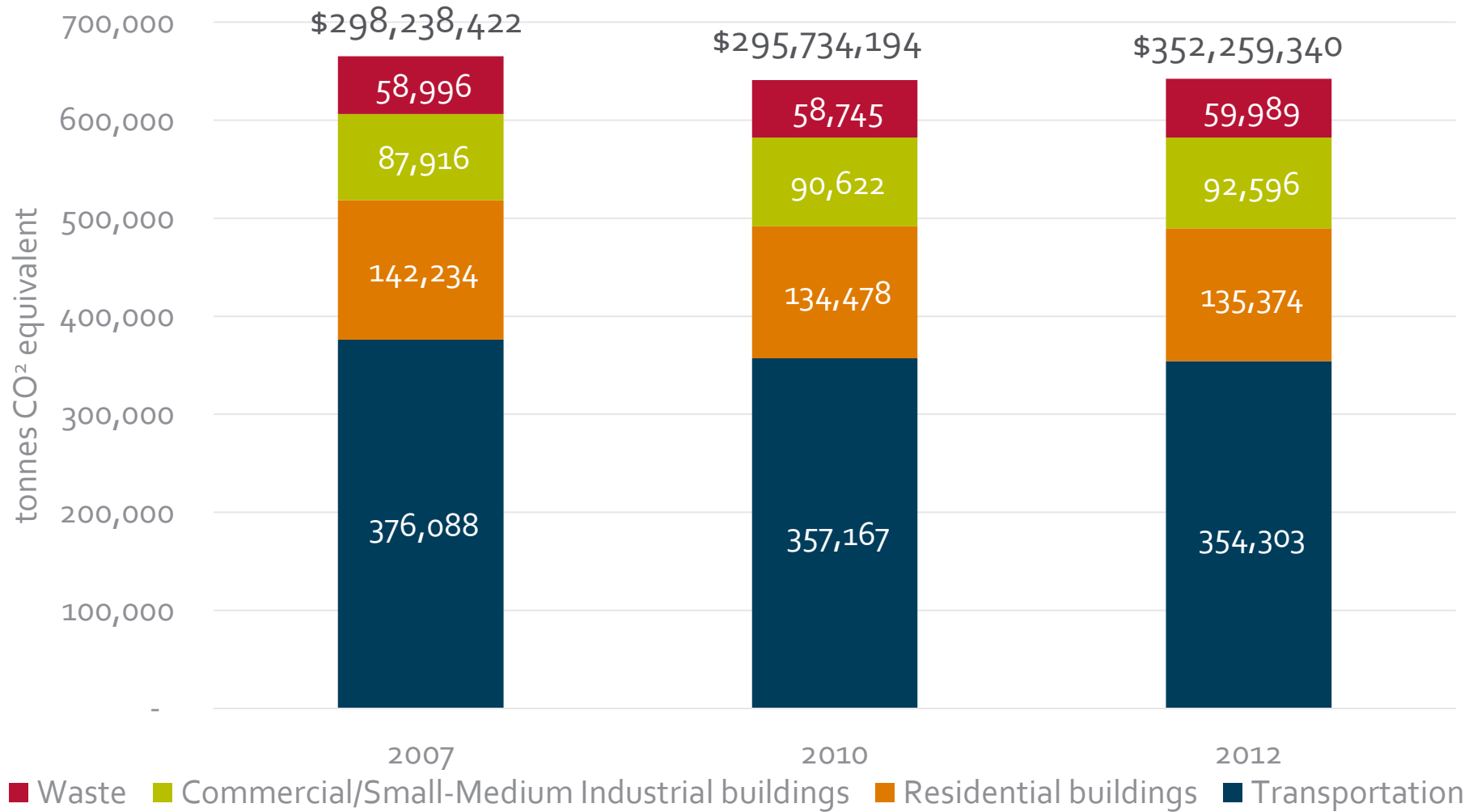
Kelowna's response

- ▶ OCP target
 - ▶ *"The City of Kelowna will, in partnership with: senior governments; local residents and businesses; NGOs; external agencies; and utility providers, work towards reducing community greenhouse gas emissions by 33% (from 2007 levels) by 2020."*
- ▶ Community Climate Action Plan (2012)

Successes of Plan

- ▶ Parking Management Strategy
- ▶ Pedestrian and Bicycle Master Plan
- ▶ Increase pedestrian and cycling infrastructure
- ▶ Construct electric charging stations
- ▶ Partnered with FortisBC on residential retrofit programs
- ▶ Developed landfill gas to pipeline bio-methane facility

Status of GHG Emissions



Community Climate Action Plan Update in 2017

- ▶ Current target is to 2020
- ▶ OCP update will go to 2040 and local governments are legislated to include GHG **target(s), policies and actions**
- ▶ Timing aligns with Corporate Project Planning Cycle
- ▶ Delivers on Council Priorities
- ▶ Aligns with other City plans and Imagine Kelowna
- ▶ Take advantage of new and forthcoming Federal funding



Climate Connections

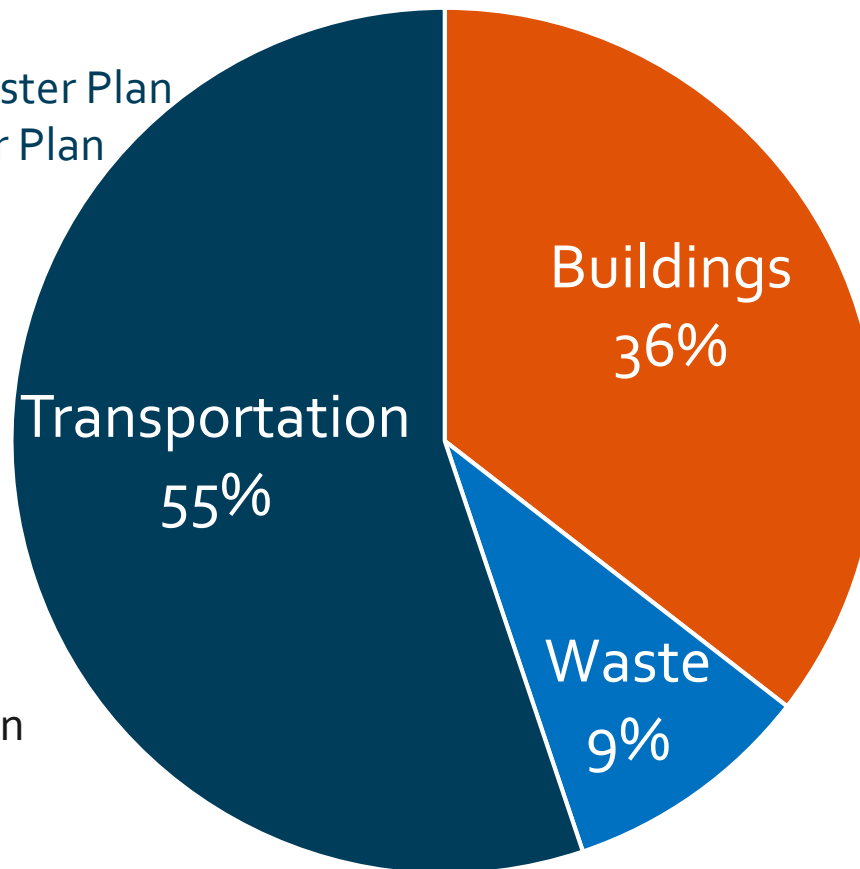
Total 2012 GHG Emissions
642,262 tonnes CO₂e

TRANSPORTATION

- Pedestrian Bicycle Master Plan
- Transportation Master Plan
- OGO Car Share
- Transit Plan(s)
- Parking Management
- Clean Air Strategy
- Land use planning
- Transportation programs

Other Linkages

- Official Community Plan
- Healthy City Strategy
- Corporate Energy and Emissions Plan



BUILDINGS

- BC Building Code
- Energy Step Code
- Energy policy
- Land use planning
- Partnerships with utilities
- Promotion of energy retrofit programs

SOLID WASTE

- Waste management plan
- Waste management program
- Landfill gas program

Benefits of a Community Climate Action Plan

- ▶ Aligns with existing plans
- ▶ Reduced energy costs for business & residents
- ▶ Demonstrates leadership
- ▶ A healthy, safe, active and inclusive community
- ▶ Supports vibrant & resilient communities
- ▶ Results in community health benefits

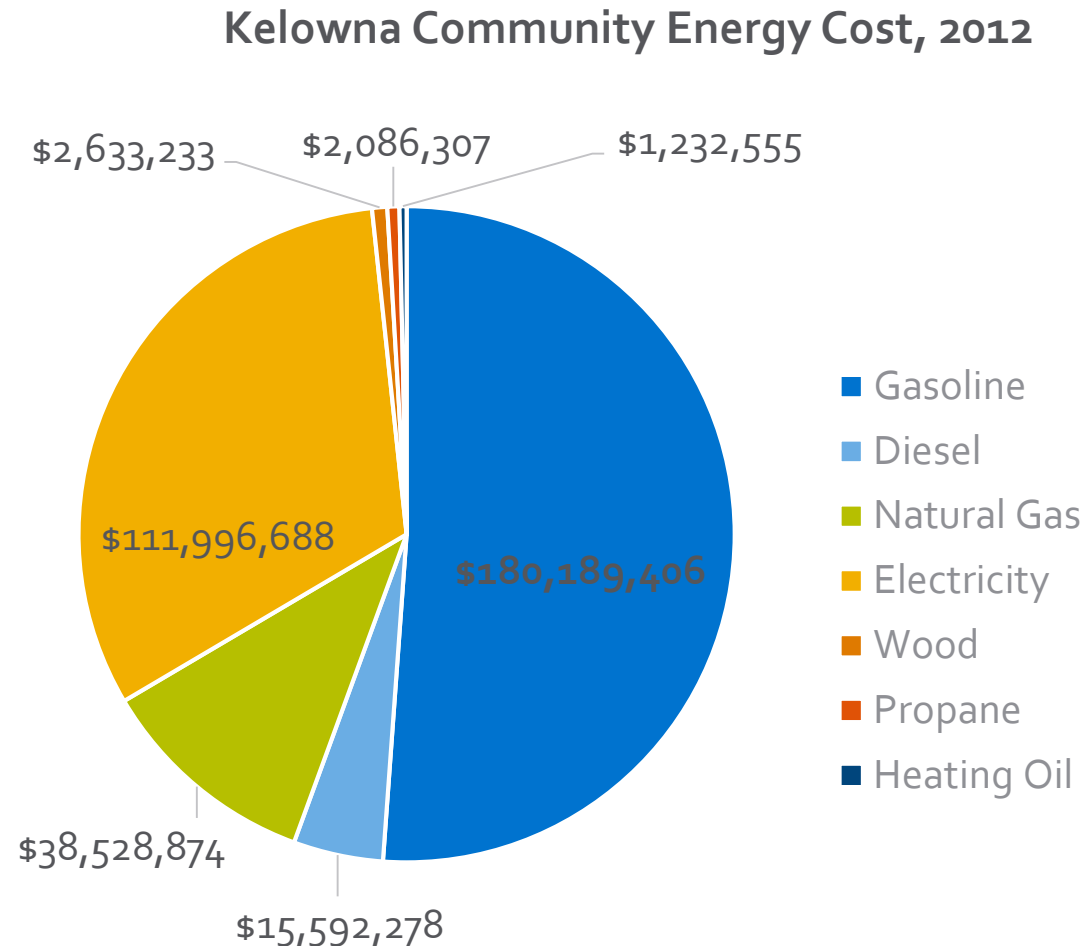


Authority levels

Government	Authority
Federal	<ul style="list-style-type: none">• National standards• Funding• International commitments• Taxation
Provincial	<ul style="list-style-type: none">• Constitutional authority for energy and municipalities
Local	<ul style="list-style-type: none">• Land use• Infrastructure• Public engagement• Waste management

Community benefits

- ▶ 2012 total energy cost: \$352,259,340
- ▶ A 10% reduction could:
 - ▶ Increase resilience in the face of fluctuating energy prices
 - ▶ Put \$35 million extra in people's pockets per year.



Local Government Carbon Funds in BC – Township of Langley

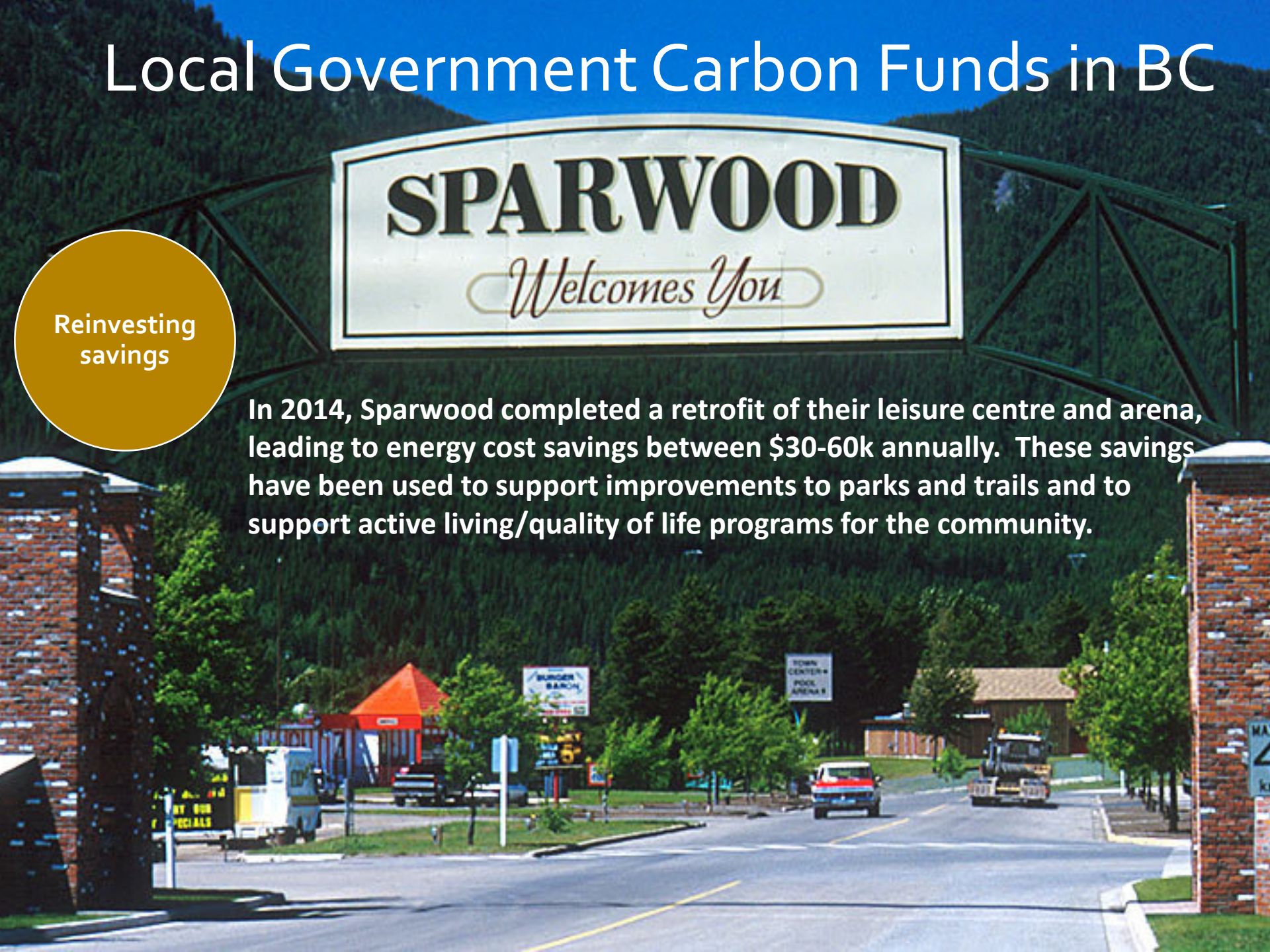
Fees or
program
surplus

Some municipalities choose to fund permit fee rebate programs by increasing building permit fees. The fee can be done as an absolute value per type of building or as a tiered fee, based on the value of the permit. The Township of Langley has funded their Green Building Rebate program by adding a 'Sustainable Construction Fee' to the building permit fee.

Local Government Carbon Funds in BC

Reinvesting
savings

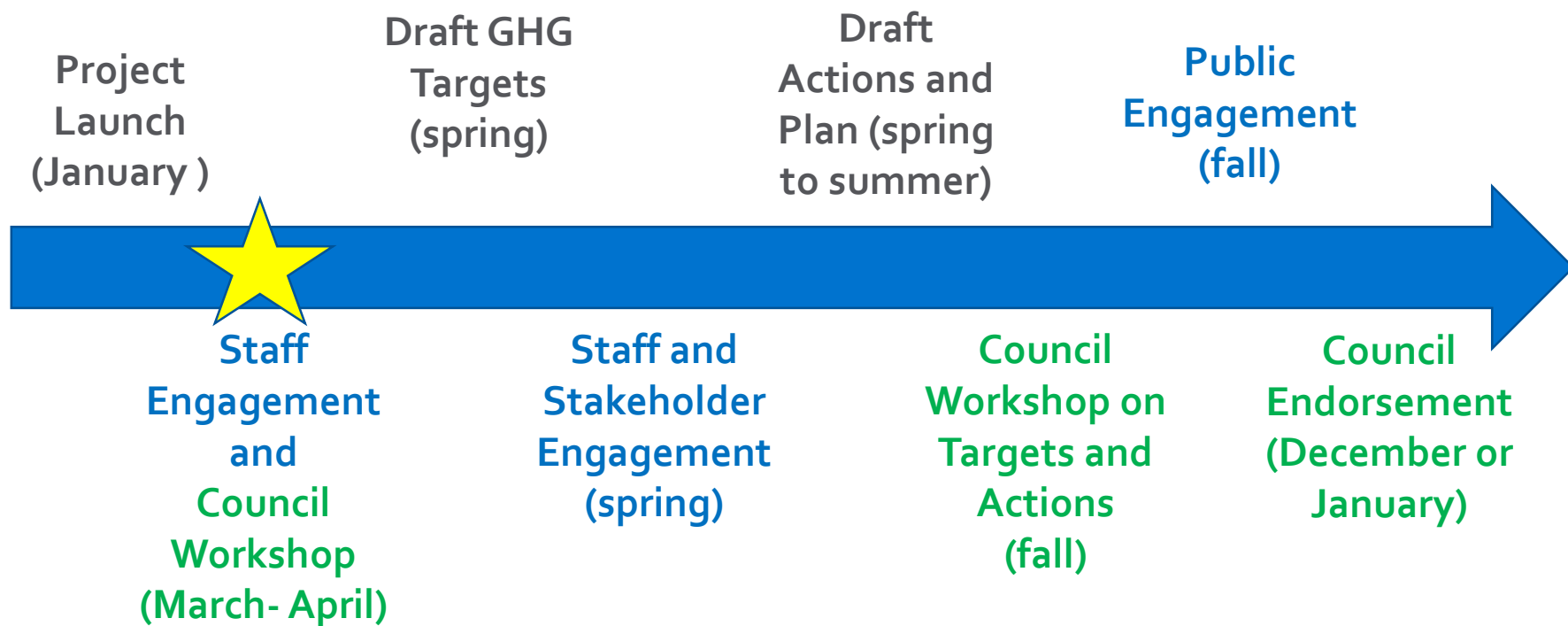
In 2014, Sparwood completed a retrofit of their leisure centre and arena, leading to energy cost savings between \$30-60k annually. These savings have been used to support improvements to parks and trails and to support active living/quality of life programs for the community.



Project Deliverables

- ▶ Energy and emissions modelling
- ▶ New GHG target for 2040
- ▶ Economic, health and risk management co-benefits
- ▶ Economic analysis and economic case
- ▶ Land use planning policy tools
- ▶ Partnership opportunities with key stakeholders
- ▶ Public engagement
- ▶ Actions, policies, programs for GHG reduction

Timelines and Milestones



Target Options and Discussion



Current target: the City of Kelowna will, in partnership, *work towards* reducing community greenhouse gas emissions by 33% (from 2007 levels) by 2020.