

# Our Kelowna as we Grow

## Facts in Focus: A Changing Climate







**Climate change is happening NOW**  
In 2017 Kelowna saw:  
flooding, droughts, poor air quality



# Climate action

- ▶ Communities must be prepared to:
  1. Respond to climate change impacts (**adaptation**)
  2. Reduce greenhouse gas emissions (**mitigation**)

## 2050 Climate Projections



**1.9 CELSIUS  
INCREASE**



**7% ANNUAL  
INCREASE**



**14% ANNUAL  
DECREASE**

# Climate Connections



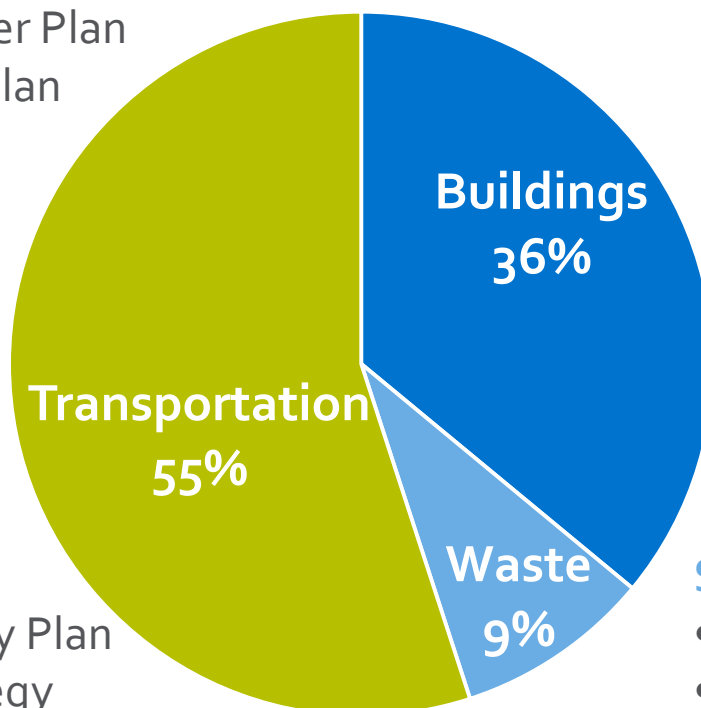
**2012 Emissions**  
**642,000 tonnes CO<sub>2</sub>e**

## 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





Emissions from vehicles are rising  
fuel sales are up 14% since 2012



23,000 - 25,000 new units required by 2040  
72% of current homes constructed before 2000





# Future Trends

1. Climate trends
  - ▶ ~ 2°C temperature ↑
  - ▶ hot, dry summers
  - ▶ More rain, less snow
2. ↑ drought
3. ↑ flooding
4. ↑ risk for pests
5. Economic impacts (e.g. agriculture, tourism)
6. Health impacts





# We CAN do this

It is time to accelerate efforts and for all segments of our community- residents, businesses, and government - to do their part.





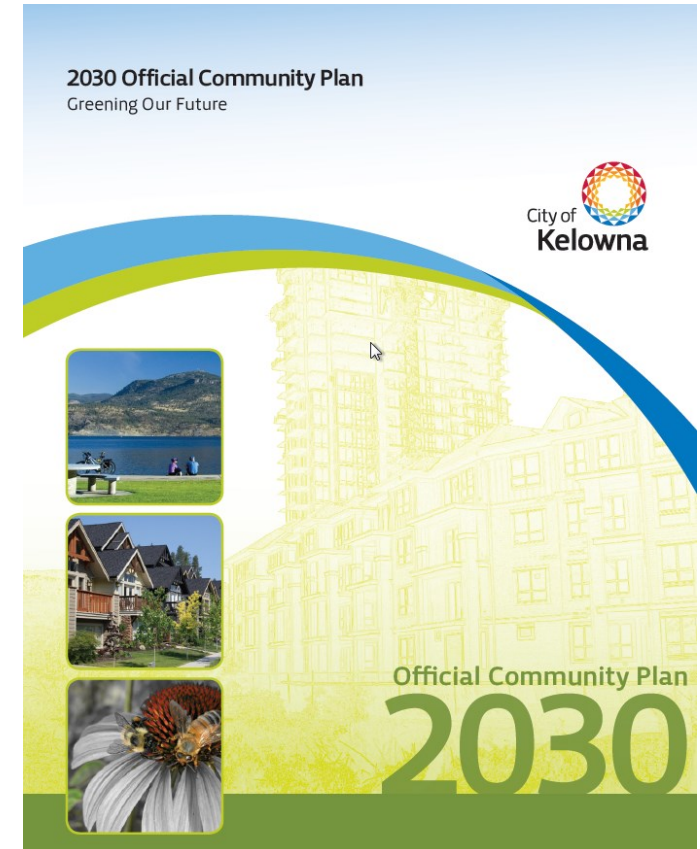
# Imagine Kelowna

1. Take action and be resilient in the face of climate change
2. Grow vibrant urban centres
3. Embrace diverse transportation options
4. Protect land, water, air resources



# Building on the OCP

- ▶ Focusing growth
  - ▶ Permanent Growth Boundary
  - ▶ 5 Urban Centres
  - ▶ Complete communities
- ▶ Prioritizing sustainable modes of transportation
- ▶ Improve energy efficiency
- ▶ Reduce solid waste
- ▶ Increase local food production



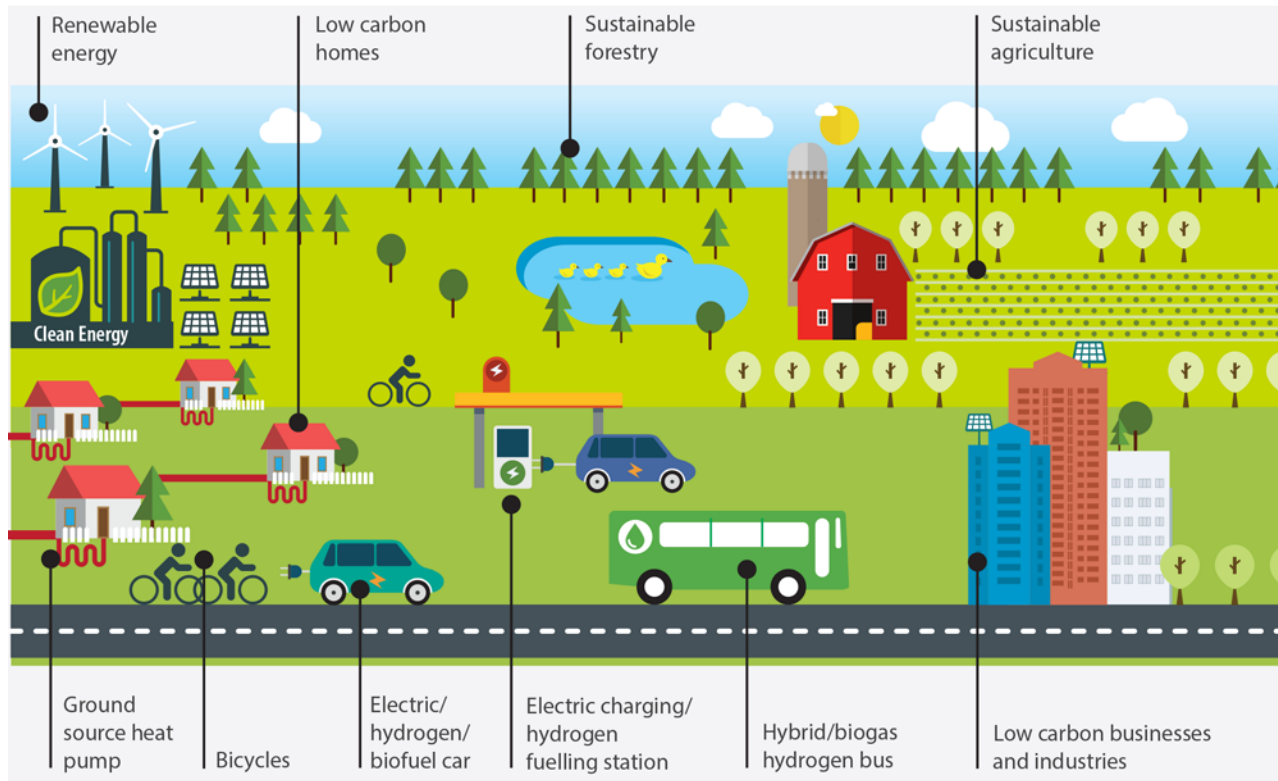


# Key Directions

1. Build more complete communities
2. Intensify the urban core
3. Make alternative transportation the convenient choice
4. Adaptation is necessary
5. Embrace new opportunities



# Our Future Resilient City



Source: Province of Ontario Climate Change Strategy website



# Its about more than GHG emissions

- ▶ Healthy city,  
healthy residents
- ▶ Economic  
development
- ▶ Reduced energy  
consumption
- ▶ Social benefits



# We've proven Kelowna can do this



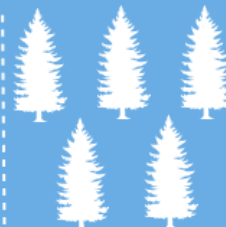
Average household natural gas use declined 8% between 2011 & 2015



Average household electricity use declined 10% between 2011 & 2015



20% of sensitive ecosystem land is permanently protected



3,000 trees planted have been planted on private property through Neighbourwoods since 2010.

3.5% decrease in GHG emissions between 2007 & 2012



In 2017, 40% of new residential units were built in the Urban Core.



In 2016, 14% of residents walked, cycled or took transit to work.



In the Central Okanagan, there are over five million transit trips annually!

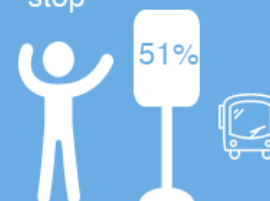
## Providing transportation options

280 kilometres of bike lanes



412 kilometres of sidewalks

51% of residents live within 400 metres of a transit stop



\*All stats refer to Kelowna unless otherwise specified





## *Resources:*

For more information, visit:  
[kelowna.ca/imaginenext](http://kelowna.ca/imaginenext)

Facts in Focus Background Paper

StoryMap Link: <http://apps.kelowna.ca/ocp/2018/climate/index.html>