

# **CLEAN AIR STRATEGY**

Idling Control Technical Report and Regulation Proposal



#### **Outline**



- > Kelowna GHG commitments
- > Idling Report Process
  - Survey & Public Analysis
  - > Education
  - > Financial
- > Timeline













#### **Clean Air Strategy**



Regional greenhouse gas emissions are minimized

Citizens and visitors enjoy clear views of the region's stunning landscape

The health of citizens and the environment is protected

Clean and healthy air for current and future generations

- Clean Air Strategy #3.2
- Municipal Official Community Plans (OCPs)
- Imagine Kelowna: "protect land, water and air" and "take action in the face of climate change"
- Council Priorities Environmental Protection

#### **Idling Control Report-Process**





45 stakeholders consulted (May 2016) Public analysis 276 responses (Jan 2016) Baseline Idling observations
(4 spots)
(May 2015)

Idling Regulation Proposal-

### Idling



 Occurs when a vehicle is in operation but not in motion.



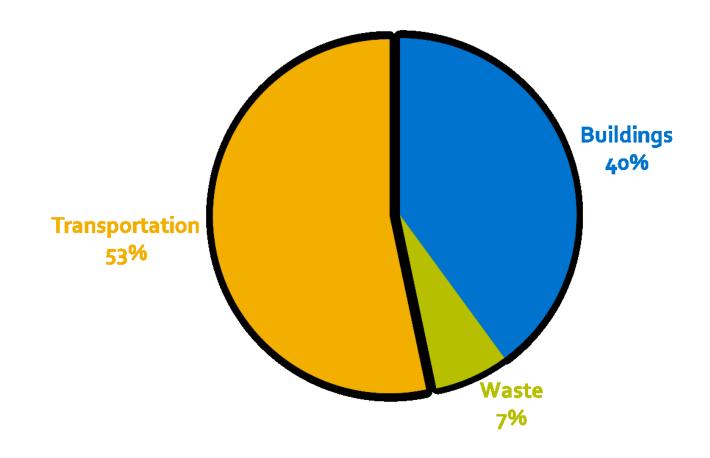
60 second rule





## Sources of GHG Kelowna (2017)





#### **Health Impacts**



- Health impacts of air pollution:
  - 1,600 premature deaths in BC
  - \$11.5B per year
  - Vehicle exhaust known carcinogen
  - People at higher risk are more sensitive to air pollution



Images: Reuters

#### **Benefits of Idling Regulation**



Cleaner local environment

Simple, cost-effective way to reduce GHG emissions

Public awareness of climate change and local air quality

Overall health of residents

Local government taking a leadership role

•Improved conditions for pedestrians and bicyclists

#### Anti-idling in Canada and around the world



Place	Description		
Canada	More than 80 cities have Bylaw; 30 municipalities and 15 Regional Districts in BC		
Switzerland	Bylaw: turn off their engines while in traffic		
USA	31 states with bylaws		
England and Scotland	Fines		
Italy, France, Copenhagen, Germany, Holland, Hong Kong, Japan and Singapore	Different idling time limits		



- 7% of vehicles are electric, hybrid, or have "Auto-Stop" start-stop technology (2012-2020).
- +62,000 gas/diesel vehicles on the road in Kelowna

## Possible community savings, GHG & fuel reduction

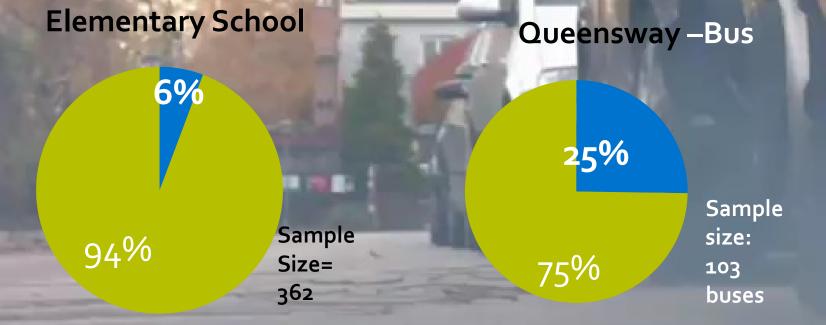


#### Canadians idle 6-8 min per day

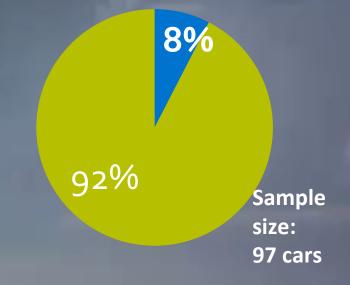
If drivers in Kelowna avoid Idling	CO <sub>2</sub> savings (Ton/year)	Number of vehicles off the road	Idle Fuel saved (litres/year) (3 L engine vehicle)	Idle Fuel costs savings (\$/year) \$1.8 / L	Individual fuel costs savings/year
1 min	1,580	344	687,110	\$ 1,236,799	\$20
3 min	4,741	1,031	2,061,331	\$ 3,710,396	\$59
6 min	9,482	2,061	4,122,663	\$ 7,420,793	\$118

### Baseline Idling Survey

4 locations/ 3 days/ 1 hr-morning and afternoon data



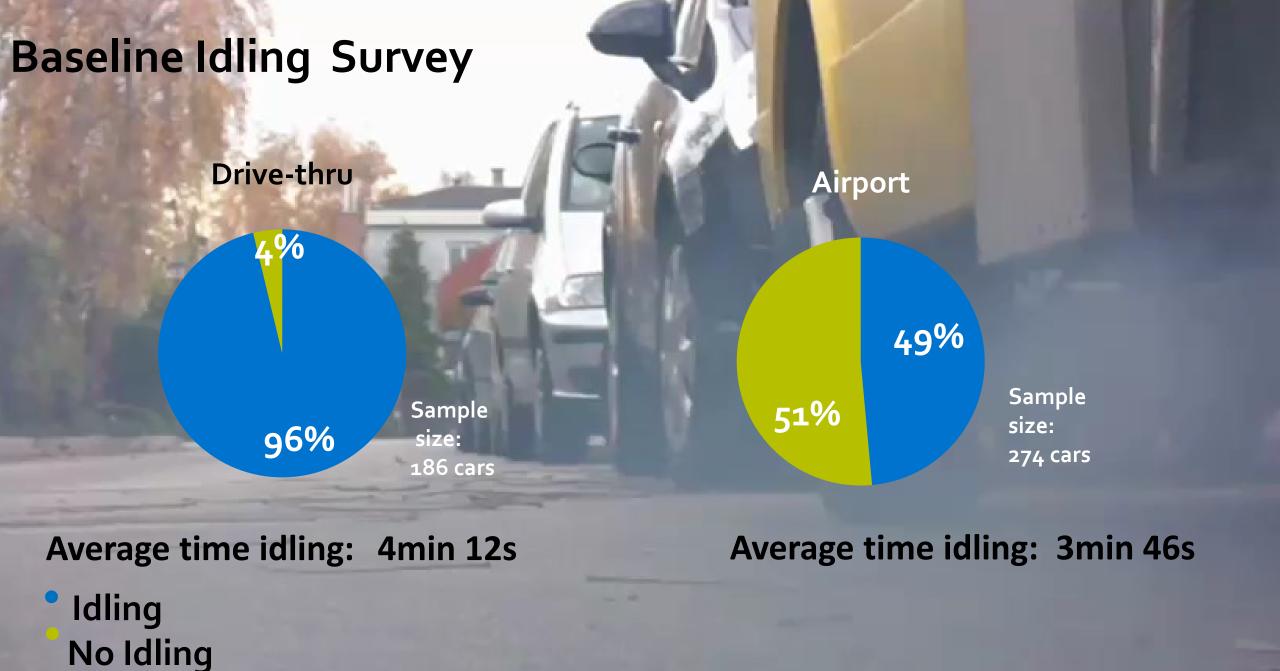




Idling
No Idling

Average idling Queensway:

- 5min for buses
- 3min for cars

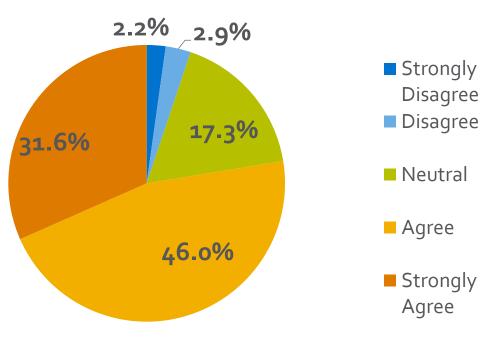


#### **Public Environmental Analysis**



January-February 2016

My municipality should take steps to limit its air pollution



Top 5 Idling Behaviours in Central Okanagan



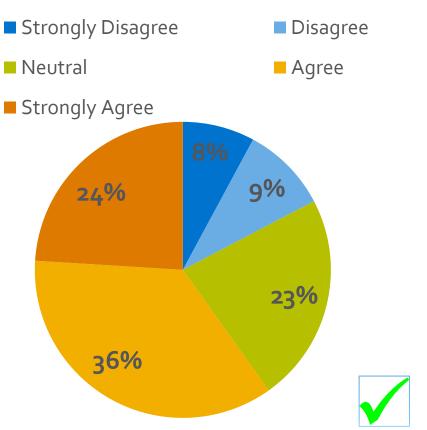


YES: 78%

#### **Public Consultation Findings**

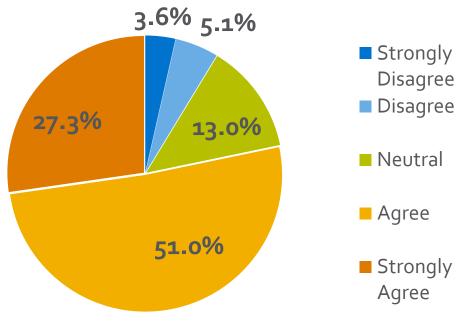


# There should be an anti-idling bylaw in my municipality



YES: 60%

# Steps should be taken to change idling behaviours





YES: 78%

# Bylaw Departments input & Air Quality Technical Committee recommendations



One-minute regulation

(If feasible) regional

zero and partial emissions vehicles excluded

**Drive-thrus** included

Does not apply in traffic

Educational period

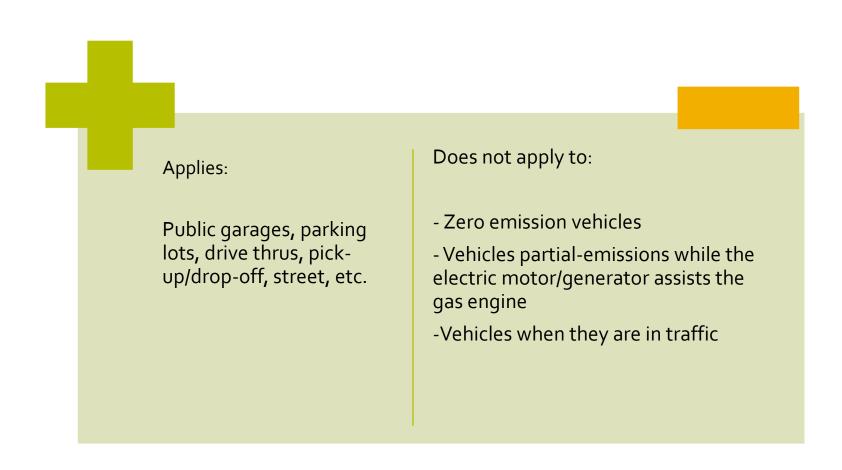
Complaints-based enforcement

\$150 fine

### **Idling Control Regulation Proposal**



A person must not cause or permit a motor vehicle to idle for more than one-minute.



#### **Exemptions**



The idling limit does <u>not</u> apply to the following situations, except where idling is substantially for the convenience of the operator or passengers of the motor vehicle:

Police, fire, ambulance...

Armoured vehicle...

with power takeoff... mechanical test or maintenance ...

race or parade...

an emergency or mechanical difficulties ...

heating or refrigeration perishable cargo...

Transit vehicles while embarking or disembarking...

#### **Educational period**



Implement Communication Plan Idling awareness

6 months prior to enforcement

Warning letters

- Produce idling signs, materials
- Campaigns

#### **Enforcement**



By complaint

**SR Software** 

-Location

-License plate

-Idling <u>hotspots</u> (internal use)

**Air Quality** 

**Bylaw officers** 

1<sup>st</sup> complaint = Warning + Educational material

2<sup>nd</sup> complaint = Notice of enforcement (same license or address)

#### Financial considerations



Resources available

Modify idling SR- (approx. 5 hrs to complete)

**Communication Plan** 

Staff resources- AQ and Bylaw officers

#### **Proposed Timeline**



Spring 2022

Present Idling Control Technical report and potential regulation



Spring-Summer 2022

Present Idling Control
Regulation for adoption
consideration



Winter 2022/Spring 2023
Regulation would come into force



Summer —Fall 2022
Educational Period- Six months (180 days)



## Questions?