



GREENEST CITY FRAMEWORK

Green Buildings	Rec		
Green Transportation	lim; enev		
Zero Waste	ate & vables	Green E	Lighter
Access to Nature		con	Footprint
Clean Water		omy	tprir
Local Food)t
Clean Air			
	Green Transportation Zero Waste Access to Nature Clean Water Local Food	Green Transportation Zero Waste Access to Nature Clean Water Local Food	Green Transportation Zero Waste Access to Nature Clean Water Local Food

3 high-level objectives

10 goal areas







Between 2007 and 2017, average annual temperatures fluctuated.

The overall trend was essentially flat, but 2016/2017 winter was colder than seasonal.

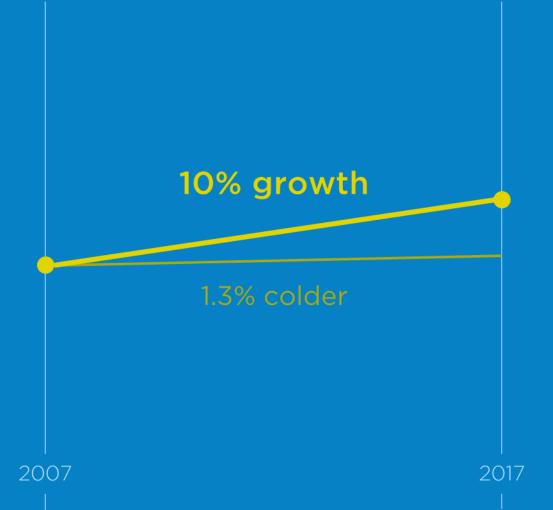


1.3% colder





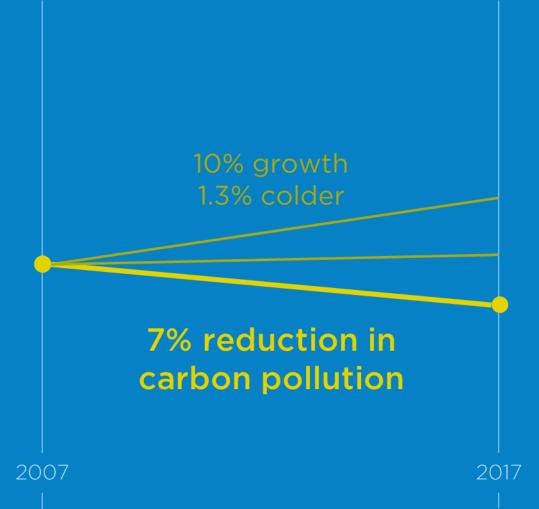
Meanwhile, our population grew by over 53,000 people.





CLIMATE AND RENEWABLES

In spite of these upward pressures, community GHGs decreased by 7%.





GHG EMISSIONS

2007

2017 with current policies

-7%

GCAP has gotten us this far. We need to do more, faster.



GHG EMISSIONS

2007

2017 with current policies

-7%

2050

-80%

Zero Emission
Building Plan
Retrofit Strategy
NEU Expansion

Transportation 2040
EV Ecosystem
Zero Waste 2040
Green Demolition

Federal and Provincial policies







Community building GHG emissions

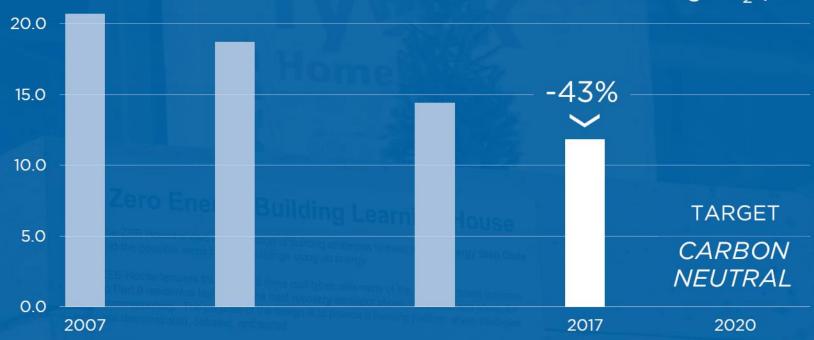
2017: 1,510,000 tCO₂e





Carbon intensity of buildings: GHG emissions of newly built floor area

2017: 11.8 kgCO₂e/m²

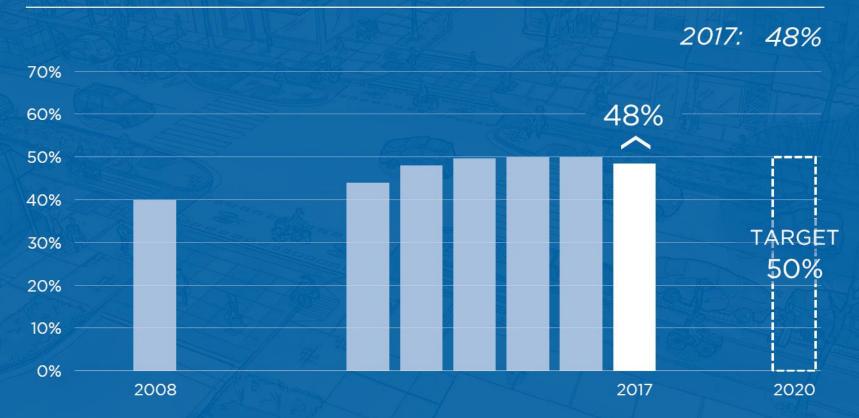








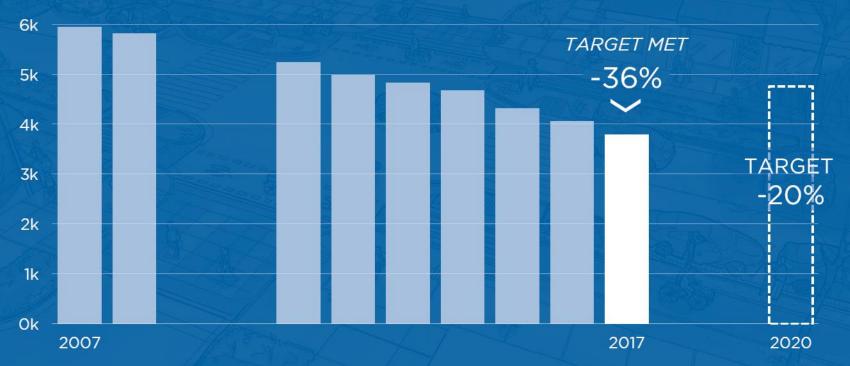
% mode share by walk, bike, and transit





Annual vehicle kilometres driven per person (VKT)

2017: 3,800 km



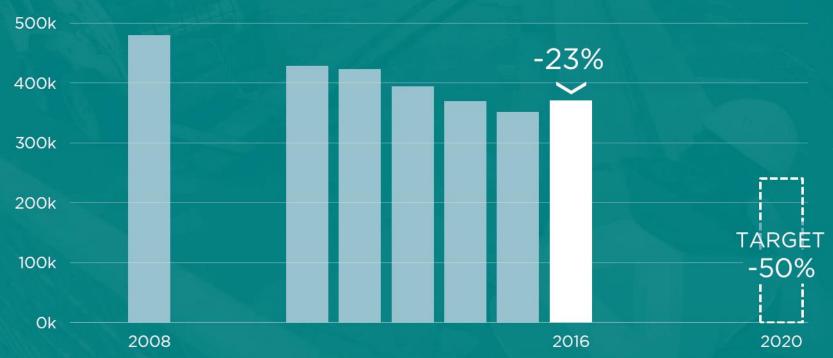






Solid waste disposed to landfill and incinerator

2016: 371,000 tonnes









HEALTHY ECOSYSTEMS Access to Nature

Clean Water

Local Food

Clean Air

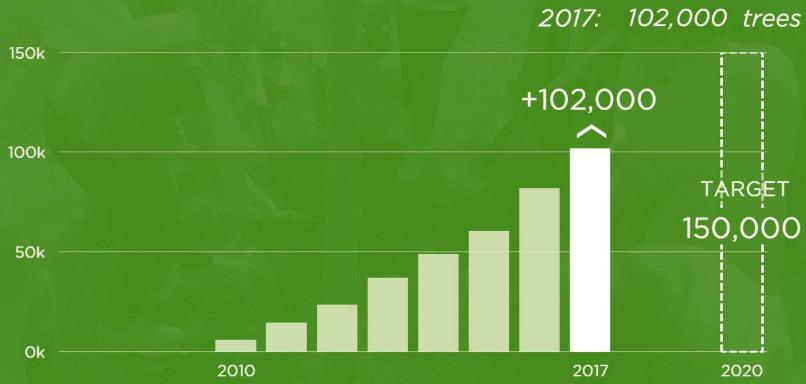






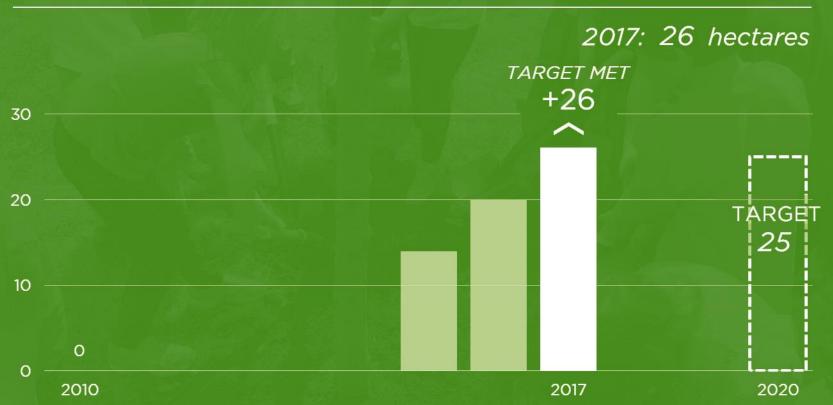
Additional trees planted







Hectares of natural area restored or enhanced





NEW BRIGHTON SALT MARSH

Juvenile salmon return within weeks of opening HERRING HATCHING IN FALSE CREEK

Spawning nets help Pacific herring recovery

VANDUSEN VEGETABLE GARDEN

Engaging summer camp kids in local sustainable food

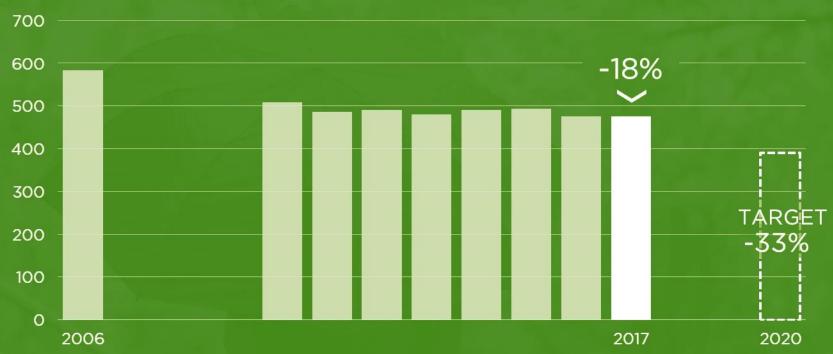






Water consumption per person

2017: 475 L/person/year









Neighbourhood food assets

2017: 5,129 food assets







SURPASSED FOOD ASSETS TARGET

600 garden plots since 2013; doubled food markets JPDATED AWARD-WINNING FOOD STRATEGY

80% of original actions completed as Strategy turns 5

KITCHENS FIT FOR PURPOSE

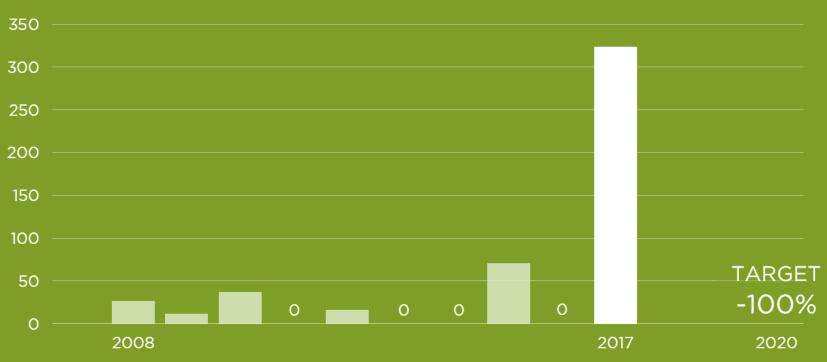
Design guidelines tailor kitchens to community needs





Air quality exceedences

2017: 324 instances







EV-READINESS IN ALL NEW MULTI-FAMILY BUILDINGS

100% of stalls equipped with charging infrastructure

TRANSLINK ELECTRIC-BUS PILOT

Four battery-electric buses on 100 route

FAST CHARGERS ACROSS THE CITY

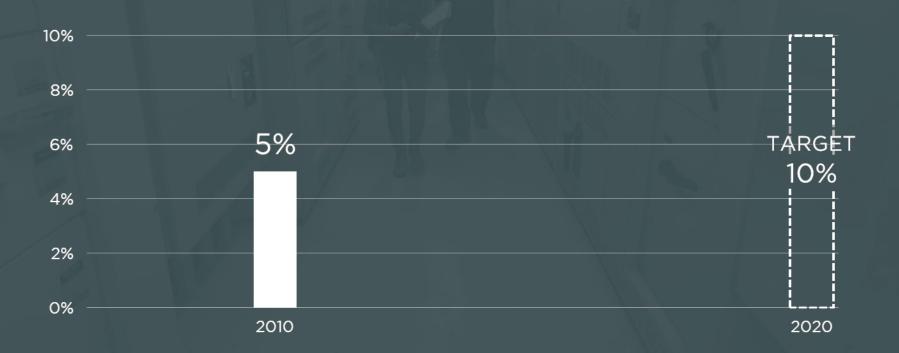
Five installed by BC Hydro; City to add more in 2018/2019





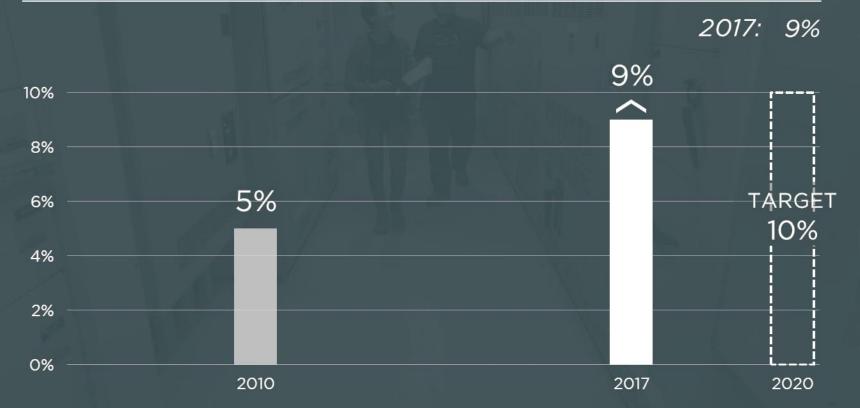


Businesses engaged in greening their operations





Businesses engaged in greening their operations









Per-capita ecological footprint

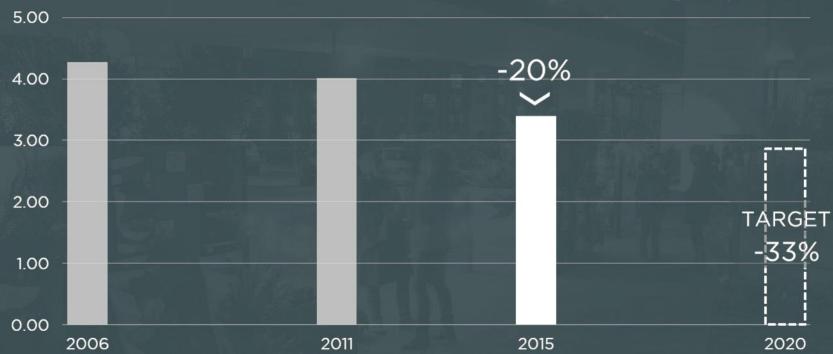
2006: 4.27 gha/person





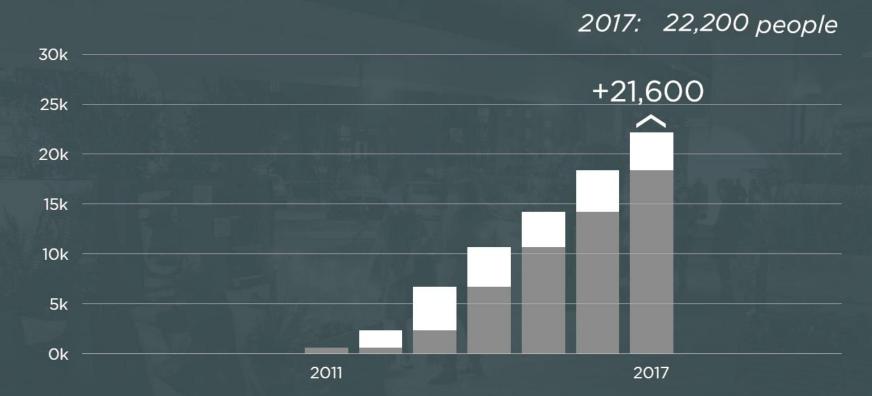
Per-capita ecological footprint

2015: 3.40 gha/person





People empowered to support Greenest City









CITY OPERATIONS PROGRESS

GHGs -55% waste diversion

83%

92%

publicfacing other City-owned water use

-25%

2020 targets achieved

CITY OPERATIONS HIGHLIGHTS

CITY HALL HEAT PUMP

GHGs down 34%; costs down \$20k /yr

GREEN FLEETS

Renewable fuel; heavy-duty EVs SALAD FROM THE GREEN

Golf courses grow salad for concessions





AWARDS

FIRST IN NORTH AMERICA

Economist Global Livability Index

SPECIAL RECOGNITION (BC STEP CODE)

Community Energy
Association
Climate and Energy
Action Awards

CLIMATE VANGUARD CITY

Carbon Neutral Cities
Alliance

2018 CANADIAN CHAMPION WWF One Planet City Challenge



SUCCESSES

food assets hectares restored/ enhanced vehicle km driven per capita

ecological footprint new building GHGs waste to landfill and incinerator

+53%

+26

-36%

-20%

-43%

-23%

2020 targets achieved



