## Greenest City Framework

### Zero Carbon
- Green Buildings
- Green Transportation
- Climate & Renewables

### Zero Waste
- Zero Waste
- Green Economy
- Lighter Footprint

### Healthy Ecosystems
- Access to Nature
- Clean Water
- Local Food
- Clean Air
- Green Economy
- Lighter Footprint

### Key Notes
- **3** High-level objectives
- **10** Goal areas
Climate and Renewables
Green Buildings
Green Transportation
CLIMATE AND RENEWABLES

GOAL
Eliminate Vancouver’s dependence on fossil fuels

2020 TARGET
Reduce community-based greenhouse gas emissions 33% from 2007 levels
Community GHG emissions

2016: no data available

2015: -15%

Target: -33%
**RENEWABLE CITY STRATEGY UNDERWAY**

- Zero Emission Building Strategy Approved
- EV Ecosystem Strategy Approved

**LANDFILL GAS CAPTURE**

- 74% captured in 2016

**HIGHLIGHTS**
WORLD STANDS WITH PARIS AGREEMENT

Vancouver will do its part

FULL UPDATE COMING IN SEPTEMBER

recommended interim targets and implementation plan

RCS ECONOMIC MODELLING

updated analysis shows significant cost savings
THE RENEWABLE CITY STRATEGY IS ABOUT

energy efficiency
better buildings
district energy
electric vehicles

IT IS NOT

banning natural gas, barbecues, or fuel used for cooking
GREEN BUILDINGS

GOAL
Lead the world in green building design and construction

2020 TARGETS
Require all buildings constructed from 2020 to be carbon neutral in operations

Reduce energy use and greenhouse gas emissions in existing buildings by 20% over 2007 levels
Community building GHG emissions

2016: no data available

Target -20%
Carbon intensity of buildings: GHG emissions of newly built floor area

2017: 11.8 kgCO₂e/m²

-43%
ZERO EMISSION BUILDING STRATEGY
lower energy use = lower heating bills

REZONING POLICY UPDATE
cut emissions in half; all energy types allowed

THERMAL IMAGING
pinpointing heat losses
Majority (>50%) of trips by foot, bicycle and public transit

Reduce average distance driven per resident by 20% from 2007 levels

GOAL
Make walking, cycling, and public transit preferred options

2020 TARGETS
Majority (>50%) of trips by foot, bicycle and public transit
% mode share by walk, bike, and transit

2016: 50%

2020 Target Met

50%

Target

50%

City of Vancouver | Greenest City
Annual vehicle kilometres driven per person (VKT)

2016: 4,060 km

2020 TARGET MET

-32%

TARGET
-20%
MOBI BIKESHARE
1.2M+ km travelled (30x around the world)

ARBUTUS GREENWAY
temporary path; public consulted early 2017

TRANSIT FUNDING & IMPROVEMENTS
Phase 1 funded; downtown trolley expansion

HIGHLIGHTS
ZERO WASTE

GOAL
Create zero waste

2020 TARGETS
Reduce total solid waste going to landfill and incinerator by 50% from 2008 levels.
Solid waste disposed to landfill and incinerator

2015: 351,000 tonnes

-27%

TARGET
-50%

2008 2015 2020
TEXTILE REUSE
Upcycling workshops and businesses: textiles = valuable resource

STREET RECYCLING
West End on-street pilot with 31 stations

MICRO-CLEANING
400 city blocks, 12,000 bags; job skills and opportunities

HIGHLIGHTS
Access to Nature
Clean Water
Local Food
Clean Air
ACCESS TO NATURE

GOAL
Vancouver residents enjoy incomparable access to green spaces

2020 TARGETS
Ensure every person lives within a five-minute walk of a park, greenway or other natural space

- Plant 150,000 additional trees
- Restore/enhance 25ha of natural areas
- Increase canopy cover to 22% by 2050
NEW METHOD: ACCESS TO PARKS/GREENSPACE

80% residents within 5 min

99% residents within 10 min
Additional trees planted

2016: 82,000 trees

Target 150,000
Hectares of natural area restored or enhanced

2016: 20 hectares

TARGET 25

2010 2015 2016
PINE & 5th
BEE SANCTUARY
supporting urban pollinators

EAGLES IN LOCARNO
Parks arborists built a better nest

VANPLAY LAUNCH
year-long consult for Master Plan

HIGHLIGHTS
CLEAN WATER

GOAL
Vancouver will have the best drinking water of any city in the world

2020 TARGETS
Meet or beat the strongest of BC, Canadian and international drinking water quality standards and guidelines

Reduce per capita water consumption by 33% over 2006 levels
Water consumption per person

2016: 476 L/person/year

-18% target
-33%
SINGLE-PASS SYSTEM PHASE-OUT

4B litres through single-pass systems

GOLF COURSE WATER USE

water budgets and knowledge-sharing

LEAKY TOILET CAMPAIGN

one leaky toilet = 135 litres per day
LOCAL FOOD

GOAL
Vancouver will become a global leader in urban food systems

2020 TARGET
Increase city-wide and neighbourhood food assets by a minimum of 50% over 2010 levels
Neighbourhood food assets

2016: 4,740 food assets

+42%

TARGET +50%

2010 2016 2020

0k 1k 2k 3k 4k 5k 6k
GARDEN IMPROVEMENTS
small grants for repairs and tools

COMMUNITY KITCHENS
using assets to their fullest potential

MOBILE MARKETS
taking produce to the people
CLEAN AIR

GOAL
Breathe the cleanest air of any major city in the world

2020 TARGET
Meet or beat the most stringent air quality guidelines from Metro Vancouver, British Columbia, Canada, and the World Health Organization
Air quality exceedences

2016: 0 instances

-100% target
AN EV CHARGING “ECOSYSTEM”
chargers where and when they are needed: home, workplace, public

CHARGERS AT BUSINESSES
activating business uptake of station hosting

HIGHLIGHTS
Green Economy
Lighter Footprint
Green Operations

ZERO CARBON  ZERO WASTE  HEALTHY ECO-SYSTEMS
GREEN ECONOMY

GOAL
Secure Vancouver’s reputation as a mecca of green enterprise

2020 TARGETS
Double the number of green jobs over 2010 levels by 2020

Double the number of companies that are actively engaged in greening their operations over 2011 levels by 2020
Green and local food jobs

2016: 24,800 jobs

+49% increase from 2010 to 2016

Target: +100% increase by 2020
25,000 GREEN AND LOCAL FOOD JOBS

Green buildings, local food, materials management

FLATS CLIMATE ACTION PLAN

Businesses armed with innovative approaches

GREEN & DIGITAL DEMONSTRATION

Bokoeco and LoopShare early successes

HIGHLIGHTS
LIGHTER FOOTPRINT

GOAL
Achieve a one-planet ecological footprint

2020 TARGET
Reduce Vancouver’s per-capita footprint by 33% from 2006 levels
People empowered to support Greenest City

2016: 18,400 people

+17,800
PROJECT
GREEN BLOC
neighbourhoods working to cut eco-footprint

GREENEST CITY FUND
relaunched for 2017; upcycling with social impact

CITYSTUDIO PROJECTS
Umbrella Taxi, Teatalk, Food Recovery Map, Illumilane
GREEN OPERATIONS

2020 TARGETS

50% reduction in GHGs from City operations from 2007 levels

70% waste diversion in public-facing City facilities; 90% in all other City-owned facilities

Reduce water use in City operations by 33% from 2006 levels
GREEN OPERATIONS PROGRESS

-56% GHGs
-23% water use
65% public-facing
91% other City-owned waste diversion

RENEWABLE ENERGY FOR CITY BUILDINGS

Fire Hall # 17 to Passive House standard

PARKS BOARD WATER USE

four projects cut total Parks water use by 31%

WASTE FLEET CONVERSION

GHGs down 20%
GREENEST CITY CHALLENGES

CONTINUED GHG REDUCTIONS
impact of changes can be long-term

WATER USAGE
tackling through the Clean Water Work Program

COMMUNICATING WITH PUBLIC
improving engagement and partnerships
**GREENEST CITY SUCCESSES**

2020 targets achieved

- **50%** mode share
- **-32%** vehicle km driven per capita
- **-43%** new building GHGs
- **-27%** waste to landfill and incinerator
- **+42%** food assets
- **+49%** green jobs

**Vancouver Food Strategy**
- Milan Pact Award

**Most Sustainable City in North America**
- Arcadis Sustainable Cities

**First in North America**
- Economist Global Livability Index
- Mercer Quality of Life Survey