OBJECTIVE

Update Council on:

**Past**
Progress implementing the Greenest City Action Plan since 2011

**Present**
Draft Short-Term Actions to 2020

**Future**
2050 Priorities
## Greenest City Framework

### 3 High-Level Objectives
- **Zero Carbon**
  - Climate Leadership
  - Green Transportation
  - Green Buildings
- **Zero Waste**
  - Zero Waste
- **Healthy Ecosystems**
  - Access to Nature
  - Clean Water
  - Local Food
  - Clean Air

### 10 Goal Areas
- **Green Economy**
- **Lighter Footprint**

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**City of Vancouver**

**Greenest City**
PAST AND PRESENT: SHORT-TERM ACTIONS

Adopted

First set of three-year SHORT-TERM ACTIONS

We are now identifying our next set of SHORT-TERM ACTIONS

In March 2015, City Council renewed its commitment beyond 2020 to a renewable future.
CONSULTATION

Consultation on our **SHORT-TERM ACTIONS**
for the next four years runs from Sept 2014 to Sept 2015.

Greenest City External Advisory Committees

Greenest City Advisory Group

Public

Revised Strategy to Council

Fall/Winter 2014 Spring 2015 Summer 2015 Fall
GREENEST CITY PUBLIC ENGAGEMENT
# RESULTS TO DATE AND FUTURE STRATEGIES

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CLIMATE LEADERSHIP

GOAL: Eliminate Vancouver’s dependence on fossil fuels

2020 TARGET

Reduce community-based greenhouse gas emissions 33 per cent from 2007 levels
2014: -7%

2014 RESULTS AND PROJECTIONS TO 2020

PROJECTED 2015-2020 CONTRIBUTIONS

- Buildings
- District Energy
- Transportation
- Transportation (Provincial/Federal actions)
- Waste (including landfill gas capture)
- Total tonnes of community CO2e emissions
- 2020 Target

TONNES OF COMMUNITY CO2e EMISSIONS
GOAL: Eliminate Vancouver’s dependence on fossil fuels

Derive 100% of the energy used in Vancouver from renewable sources

Reduce community-based greenhouse gas emissions 80 per cent from 2007 levels

2050 TARGETS
OUR PATH TO A RENEWABLE CITY

31% of Vancouver’s energy is already renewable.

We will be taking action to:

1. Reduce overall demand
2. Increase use of renewables
3. Increase supply of renewables

so that 100% of Vancouver’s energy is renewable before 2050.
CARBON NEUTRAL CITIES ALLIANCE

VANCOUVER
SEATTLE
PORTLAND
SAN FRANCISCO

MINNEAPOLIS
BOSTON
NEW YORK CITY
WASHINGTON, DC

OSLO
STOCKHOLM
COPENHAGEN
BERLIN

LONDON

YOKOHAMA
SYDNEY
MELBOURNE
As with Greenest City, Renewable City goals will rely on collaboration with business, government and the public.
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**Zero Waste**

**Clean Air**

**Healthy Ecosystems**

**Access to Nature**

**Clean Water**

**Local Food**

**Climate & Renewables**

**Green Economy**

**Lighter Footprint**
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 |
TONNES OF COMMUNITY BUILDING CO$_2$e EMISSIONS

2014: -5%

PLANNED 2015-2020 ACTIONS
- Further VBBL retrofit requirement updates
- Launch and expand programs for multi-unit residential buildings
- Launch engagement/technology programs for single-family homes
- Require benchmarking
- Expanded low-carbon district energy
- Provincial actions
- Total tonnes of CO2e from community bldgs
- 2020 Target

2014 RESULTS AND PROJECTIONS TO 2020
OUR PATH TO A RENEWABLE CITY

We will be taking action to:

Reduce overall demand

- reduce energy demand from new buildings by ~70%
- retrofit existing buildings

Increase use of renewables

- establish and expand renewable neighbourhood energy systems
- increase on-site renewable energy generation

2015: 38%
2050: 100%
GREEN TRANSPORTATION

**GOAL:** Make walking, cycling, and public transit preferred options

- Majority (>50%) of trips by foot, bicycle and public transit
- Reduce average distance driven per resident by 20% from 2007 levels
**PLANNED 2015-2020 ACTIONS**

1. Initiate extension of Millennium Line SkyTrain under Broadway to Arbutus
2. Improve walking and cycling infrastructure on False Creek bridges (e.g., Burrard-Pacific intersection)
3. Implement a Bike Sharing Program

**2014 RESULTS AND PROJECTIONS TO 2020**

**% MODE SHARE BY WALK, BIKE, TRANSIT**

![Graph showing mode share trends from 2008 to 2020]

**PROJECTED 2015-2020 CONTRIBUTIONS**

- **Transit trip increase**
- **Walk trip increase**
- **Bike trip increase**
- **% mode share by walk, bike and transit**
- **2020 Target**
TOTAL VEHICLE KILOMETRES DRIVEN PER PERSON

2014: -21%

PROJECTED 2015-2020 CONTRIBUTIONS

- Green Transportation 2015-2020 Priority Actions
- Total vehicle km driven per person
- 2020 Target

2014 RESULTS AND PROJECTIONS TO 2020
OUR PATH TO A RENEWABLE CITY

We will be taking action to:

Reduce overall demand

☐ prioritize efficient land use
☐ increase walking/cycling
☐ improve transit

Increase use of renewables

☐ ensure personal and commercial transport is powered through renewable resources

2015

5%

2050

100%
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**Lighter Footprint**

**Green Economy**
ZERO WASTE

GOAL: Create zero waste

Reduce total solid waste going to landfill or incinerator by 50% from 2008 levels
LATEST RESULTS AND PROJECTIONS TO 2020

TONNES OF WASTE TO LANDFILL/INCINERATOR

2013: -18%

PLANNED 2015-2020 ACTIONS

- Support expanded food scraps recycling (all sectors)
- Wood waste diversion
- Advocate for EPR for additional materials
- Divert streetscape material: Keep Vancouver Spectacular program
- Continue: C&D Waste Diversion
- Continue: Existing EPR
- Continue: Keep recyclables out of garbage
- Tonnage of waste to landfill or incinerator
- 2020 Target
OUR PATH TO A RENEWABLE CITY

We will be taking action to:

Reduce overall demand

☐ ensure reuse/repurposing, to minimize energy used for processing

Increase use of renewables

☐ ensure transport vehicles use renewable energy

Increase supply of renewables

☐ capture and use biomethane
# RESULTS TO DATE AND FUTURE STRATEGIES

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[City of Vancouver | Greenest City]
ACCESS TO NATURE

**GOAL:** Vancouver residents enjoy incomparable access to green spaces

**2020 TARGETS**

Ensure every Vancouver resident lives within a five-minute walk of a park, beach, greenway or other natural space

Plant 150,000 additional trees in the city between 2010 and 2020
1. Strategically expand tree planting
2. New inventory system for trees on City land
3. Update tree management plans, planting standards and best practices
4. Develop policies to retain more healthy, mature trees

2014 RESULTS AND PROJECTIONS TO 2020

ACCESS TO NATURE
% OF CITY’S LAND BASE WITHIN 5 MIN WALK TO GREEN SPACE

PLANNED 2015-2020 ACTIONS

New Parks: Yukon/17th; Cambie and Fraser River; River District; Oakridge

% of city’s land base within 5 min walk to green space

2020 Target

2014: 92.7%

2014 RESULTS AND PROJECTIONS TO 2020
CLEAN WATER

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

2020 TARGET
Reduce per capita water consumption by 33% over 2006 levels

2014 RESULTS AND PROJECTIONS TO 2020

TOTAL WATER CONSUMPTION PER CAPITA

2014: -16%

PLANNED 2015-2020 ACTIONS
- Reduce water consumption in ICI sector
- Reduce water consumption in residential sector
- Water system losses and management; civic uses
- Total water consumption per capita (L/person/day)
- 2020 Target
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

2014 RESULTS AND PROJECTIONS TO 2020
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

2014 RESULTS

PLANNED 2015-2020 ACTIONS

1. Develop electric vehicle infrastructure strategy
2. Investigate labeling gas pumps for air quality impacts
3. Ensure air quality data and information is available

TOTAL EXCEEDANCES OF AIR QUALITY GUIDELINES

2014: 0 instances
## RESULTS TO DATE AND FUTURE STRATEGIES

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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

NUMBER OF GREEN/LOCAL FOOD JOBS

2013: +19%

PROJECTED 2015-2020 CONTRIBUTIONS

- City-led actions (retrofit programs, district energy)
- VEC-led actions (GDDP, cleantech accelerator, False Creek Flats, trade missions)
- Other actions (organics ban, EPR, etc.)
- Market transformation
- Business-as-usual business growth
- Number of local food and green jobs
- 2020 Target

LATEST RESULTS AND PROJECTIONS TO 2020
NUMBER OF PEOPLE EMPOWERED BY CITY-LED OR SUPPORTED PROJECT

2014 RESULTS AND PROJECTIONS TO 2020

2014: +10,100

PLANNED 2015-2020 ACTIONS
- Continue/improve Greenest City Grants and City Studio Programs
- Number of people empowered by City-led or supported project

LIGHTER FOOTPRINT

GOAL
Achieve a one-planet ecological footprint

2020 TARGET
Reduce Vancouver’s per-capita footprint by 33% from 2006 levels
POSITIVE RESULTS SINCE 2011

2020 targets achieved

50%  -21%  -7%  -18%  +36%  +19%

Mode share  Vehicle km driven per capita  GHGs  Waste to landfill or incinerator  Food assets  Green jobs

Two-time winner of Earth Hour City Challenge:

Global Capital 2013
Canadian Capital 2015

Continuing areas of focus:
accelerating GHG reductions
reducing water consumption
greening businesses
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SUMMARY

Significant progress has been made to date, with much more work to do.

JOIN US!

Join us on June 30th and at events throughout the summer to plan the next wave of action to get us to our 2020 targets and to build the Renewable City.

vancouver.ca/greenestcity
greenestcitystories.ca