WE ARE OF ONE HEART AND MIND
LEARNING FROM OUR FIRST NATIONS ON WHOSE UNCEDED TERRITORY WE LIVE
OBJECTIVE: APPROVAL FOR PRIORITY ACTIONS TO 2020

First set of PRIORITY ACTIONS (80% complete)

Next set of PRIORITY ACTIONS

Adopted

GreeneSt City 2020

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

Consultation on our next **PRIORITY ACTIONS** ran from Sept 2014 to Oct 2015.

- **Greenest City External Advisory Committees**
  - Fall/Winter 2014

- **Greenest City Advisory Group**
  - Spring 2015

- **Public**
  - Summer 2015

- **Revised Strategy to Council**
  - Fall 2015
PUBLIC ENGAGEMENT

13,138 PEOPLE ENGAGED

4,078 ENGAGED IN PERSON

9,060 ENGAGED ONLINE

• Online Survey
• Micro-Site
• Social Media
• Greenest City Stories Tumblr

CONSULTATION AND ENGAGEMENT

15 LIVE EVENTS

• Bright Green Summer Launch
• Pop-Up City Hall x 5
• Renewables Micro-Conference
• 1M Rider Celebration
• PNE City Pavilion
• VPL Children’s Engagement
• Bright Green Block Party
• CRED Event
• Fraser Fest
• Doors Open Vancouver
• Pecha Kucha Grand Finale
GREENEST CITY STORIES
METROPOLITAN REGION:
Population  2,500,000
Area  2,877 km²

CITY OF VANCOUVER:
Population  603,500
Area  115 km²
## Greenest City Framework

**3 High-Level Objectives**

- **Zero Carbon**
  - Green Buildings
  - Green Transportation

- **Zero Waste**
  - Zero Waste

- **Healthy Ecosystems**
  - Access to Nature
  - Clean Water
  - Local Food
  - Clean Air

**10 Goal Areas**

- Climate & Renewables
- Green Economy
- Lighter Footprint

### Revised 2015
## 2015-2020 Strategies

<table>
<thead>
<tr>
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</table>
CLIMATE AND RENEWABLES
Target: Reduce community-based GHG emissions by 33% (over 2007 levels).

PRIORITY ACTIONS TO 2020

• Convert two steam heat networks to renewable energy
• Develop four new neighbourhood energy systems
• Develop and begin implementing a renewable energy strategy

76% PUBLIC SUPPORT (ON 2015 SURVEY)

2014: -7%

2020 TARGET: -33%
2015-2020 ADVOCACY ACTIONS

PROVINCE: INCREASE CARBON TAX

PROVINCE: GHG TARGET ACT

PROVINCE: RENEWABLE & LOW CARBON FUEL STANDARD

PROVINCE: LOW & ZERO-EMISSION VEHICLE STANDARDS

METRO: CLIMATE ACTION FUND

76% PUBLIC SUPPORT (ON 2015 SURVEY)
CLIMATE AND RENEWABLES

GOAL:
Eliminate Vancouver’s dependence on fossil fuels

2020 TARGET
82% OF RESIDENTS ARE TAKING ACTION (2015 SURVEY)

TAKING ACTION

“I am SO excited to have my new electric vehicle because now when I drive I feel this freedom from the oil companies, it is truly an exhilarating sensation to know one is not harming the environment.”

- Suzanne Fairley, new EV enthusiast
GREEN BUILDINGS
Target 1: Reduce energy use and greenhouse gas emissions in existing buildings by 20% (over 2007 levels).

PRIORITY ACTIONS TO 2020

• Update VBBL retrofit requirements

• Launch & expand programs for multi-unit residential buildings

• Launch programs for single family homes

• Require benchmarking for large buildings

• Launch program for industry partners

77% PUBLIC SUPPORT (ON 2015 SURVEY)

ACTIONS AND PROJECTIONS

TONNES OF COMMUNITY BUILDING CO2e EMISSIONS

2014: -5%
2020 TARGET: -20%
GREEN BUILDING
Target 2: Require all buildings constructed 2020 onward to be carbon neutral.

PRIORITY ACTIONS TO 2020

• Develop a carbon neutral new building strategy

• Update Green Building Policies

• Update minimum energy efficiency requirements in VBBL

77% PUBLIC SUPPORT (ON 2015 SURVEY)

ACTIONS AND PROJECTIONS

2020 TARGET: CARBON NEUTRAL NEW BUILDINGS

kg/m² OF CO₂e EMISSIONS FROM NEW BUILDINGS
“Living with a smaller footprint does not require giving up enjoying your home. This project surprised us as all utility items have been run by the installed solar rooftop panels with a produced net energy gain since May 2015.”

- Larry Deschner, Laneway home resident
GREEN TRANSPORTATION
Target 1: Make the majority (over 50%) of trips by foot, bicycle and public transit.

PRIORITY ACTIONS TO 2020
• Improve walking & cycling infrastructure on False Creek bridges
• Implement a bike sharing program
• Extend Millennium Line Skytrain under Broadway to Arbutus
• Implement transit improvements

75% PUBLIC SUPPORT (ON 2015 SURVEY)

2014: 50%
2020 TARGET: 50%
2040 TARGET: 66%

MODE SHARE BY WALK, BIKE, TRANSIT

ACTIONS AND PROJECTIONS
GREEN TRANSPORTATION
Target 2: Reduce average distance driven per resident by 20% (from 2007 levels).

81% PUBLIC SUPPORT (ON 2015 SURVEY)

ADVOCACY
PROVINCE & FEDS
FUNDING TO SUPPORT TRANSIT IMPROVEMENTS

TARGET: -20%

2014: -21%

TOTAL VEHICLE KM DRIVEN/PERSON

km/year

Green Transportation

Target 2: Reduce average distance driven per resident by 20% (from 2007 levels).

81% Public Support (On 2015 Survey)

Advocacy
Province & Feds
Funding To Support Transit Improvements

Target: -20%

2014: -21%

Total Vehicle km Driven/Person

km/year
“We have replaced noisy, polluting trucks with quiet, low-impact trikes to complete over 72,500 deliveries, traveling over 63,000 kilometers, and preventing 25,000 kg of harmful CO2 emissions.”

- Robyn Ashwell, Shift Co-Op
## 2015-2020 Strategies

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ZERO WASTE
Target: Reduce waste going to the landfill or incinerator by 50% (from 2008 levels).

PRIORITY ACTIONS TO 2020

• Expanded food scraps recycling to all sectors through education and enforcement

• Expanded construction and wood waste diversion strategy

• Implement a comprehensive litter strategy

• Support Metro Vancouver’s Zero Waste Challenge

ACTIONS AND PROJECTIONS

82% PUBLIC SUPPORT (ON 2015 SURVEY)

ZERO WASTE 21

2013: -18%

2020 TARGET: -50%

TONNES OF WASTE TO LANDFILL OR INCINERATOR
2015-2020 ADVOCACY ACTION

PROVINCE

CONTINUE IMPLEMENTING EXTENDED PRODUCER RESPONSIBILITY (EPR) RECYCLING PROGRAMS, IN ACCORDANCE WITH THE CANADA-WIDE ACTION PLAN FOR EPR

(SPECIFIC FOCUS ON CARPET, TEXTILES, AND FURNITURE)

80% PUBLIC SUPPORT (ON 2015 SURVEY)
“We’ve been surprised at the enthusiasm people have to teach others how to repair.”

- Jessica Beketa, Karen Byskov, Jayde Chang, Shea O’Neil of Repair Matters
# 2015-2020 Strategies

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**Healthy Ecosystems**

**Eligible Community Programs**

- Access to Nature
- Clean Water
- Local Food
- Clean Air
ACCESS TO NATURE
Target 1: All residents live within a five-minute walk of a park, greenway or other green space by 2020.

PRIORITY ACTIONS TO 2020

- Complete new park at Yukon/17th
- Acquire new park land at Cambie/Fraser River
- Realize new park in East Fraserlands

84% PUBLIC SUPPORT (ON 2015 SURVEY)

WATCH THIS SPACE (NEW TARGETS TO COME)

2014: 92.7%

2020 TARGET: 95%

LAND BASE WITHIN 5 MIN WALK TO GREEN SPACE

ACCESS TO NATURE
ACCESS TO NATURE
Target 2: Plant 150,000 new trees by 2020.

PRIORITY ACTIONS TO 2020

• Strategically expand tree planting

• Create new inventory system for trees on City land

• Update tree management plans, planting standards and best practices

• Develop policies to retain more healthy, mature trees

84% PUBLIC SUPPORT (ON 2015 SURVEY)

NEW TREES PLANTED

2014: +37,000

2020 TARGET: +150,000

ACTIONS AND PROJECTIONS
“Through street art and neighbourhood dialogues, the Rainway Project reconnects us with the local salmon streams that are now buried under concrete and piped into sewers. This journey of reconnecting to the local watershed needs to also become a journey of reconciliation.”

- Rita and Shahira, The Rainway Project
CLEAN WATER

Target 1: Meet or meet strongest BC, Canadian, and appropriate international drinking water standards and guidelines.

Target 2: Reduce per capita water consumption by 33% from 2006.

PRIORITY ACTIONS TO 2020

- Reduce institutional, commercial & industrial water consumption through policy & compliance measures
- Reduce residential water consumption through incentives, education & compliance measures
- Reduce water system loss and civic use
- Include testing from drinking water fountains into the City’s routine Water Quality Monitoring Program

WATER CONSUMPTION PER CAPITA PER YEAR

2014: -16%

2020 TARGET: -33%

PUBLIC SUPPORT (ON 2015 SURVEY)

84%
“I co-founded Youth4Tap to promote tap water. A year later, we had eliminated bottled water from our school vending machines, installed three water refill stations, educated over 3,000 people and had grown to a city-wide movement. It’s amazing how far a small idea can take you.”

- Tesicca Truong
LOCAL FOOD
Target: Increase city-wide and neighbourhood food assets by a minimum of 50% (over 2010 levels).

PRIORITY ACTIONS TO 2020

• Adopt & implement urban farming policy & increase the number of urban farming businesses (18 to 35)

• Increase farmers markets (11 to 22) & community food markets (14 to 20)

• Increase community garden plots (4,423 to 5,500) & community kitchens (69 to 80) with emphasis on ethno-cultural participation

• Support the Food Bank relocation to a new facility & incorporate components of a food hub

LOCAL FOOD
## 2015-2020 Advocacy Actions

<table>
<thead>
<tr>
<th>Region &amp; Province</th>
<th>Action</th>
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<tbody>
<tr>
<td>Province</td>
<td>Preservation &amp; Enhancement of the Agricultural Land Reserve</td>
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<tr>
<td>Feds</td>
<td>Comprehensive Anti-Poverty Program</td>
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<td>National Food Strategy</td>
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</table>

84% Public Support (on 2015 survey)
“Sole Food Street Farms is a friendly, loving environment to work in and the food is delightful!”

- Miranda Jeffries, Sole Food Farmer

65% OF RESIDENTS ARE TAKING ACTION (2015 SURVEY)
**CLEAN AIR**

Target: Meet or beat the most stringent air quality standards from Metro Vancouver, BC, Canada and World Health Organization.

**PRIORITY ACTIONS TO 2020**

- Work with Metro Vancouver to ensure there are at least two permanent air quality stations within City limits
- Develop an electric vehicle (EV) infrastructure strategy to support EV uptake
- Investigate labeling gas pumps for their GHG and air quality impacts
- Work with Metro Vancouver to ensure air quality data and information is available for sources and locations across the city

**2014: 0 instances**

2020 TARGET: ZERO
## 2015-2020 Advocacy Actions

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<td>Introduce Right-to-Charge to Support Residential EV Charging</td>
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<td>Province</td>
<td>Changes to Utilities Commission Act to Support EV Charging</td>
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<tr>
<td>Province</td>
<td>Tougher In-Use Diesel Engine Standards</td>
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<td>Metro &amp; Feds</td>
<td>Tougher Sulphur Dioxide and Particulate Matter Objectives</td>
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79% Public Support (on 2015 survey)
## 2015-2020 STRATEGIES

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GREEN ECONOMY

Target 1: Double the number of green jobs by 2020 (over 2010 levels).

PRIORITY ACTIONS TO 2020

- Launch a clean tech accelerator
- Grow the Green & Digital Demonstration Program
- Help transform the False Creek Flats into the greenest place to work in the world
- Develop a strategy and action plan to attract green investment capital
- Organize and host targeted business trade missions & leverage large conferences and events

NUMBER OF GREEN AND LOCAL FOOD JOBS

PUBLIC SUPPORT (ON 2015 SURVEY)

2013: +19%

2020 TARGET: DOUBLE
GREEN ECONOMY
Target 2: Double the number of companies that are actively engaged in greening their operations by 2020 (over 2010 levels).

PRIORITY ACTIONS TO 2020
• Develop, launch and maintain a greening businesses platform

![Graph showing the number of green companies from 2010 to 2020 with a target of doubling by 2020.]

72% PUBLIC SUPPORT (ON 2015 SURVEY)
### 2015-2020 Advocacy Actions

<table>
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<th>Metro</th>
<th>Supportive Land Use Planning &amp; Solutions-Based, Outcome-Oriented, Codes</th>
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<tr>
<td>Feds</td>
<td>National &amp; North American Carbon Pricing</td>
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<td>Feds</td>
<td>Flexible Immigration Policies</td>
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<td>Climate Change Policy</td>
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- **71% Public Support** (On 2015 Survey)
“Having a local shop with everything made in Vancouver reduces greenhouse gas emissions. We reclaim wood, steel, and vintage pieces when we build our custom furniture. And we run workshops to make people more aware of what’s available locally and how they can reuse products found in their home.”

- Ryan, Studio 126
LIGHTER FOOTPRINT
Target: Reduce Vancouver’s ecological footprint by 33% (over 2006 levels).

PRIORITY ACTIONS TO 2020

- Continue or expand Greenest City Grants and CityStudio Programs
- Develop a municipal Sharing Economy strategy
- Support a community of action by sharing information, facilitating and encouraging community leaders
- Explore how programs & infrastructure can reduce ecological footprint of food consumption

2014: +10,100

70% PUBLIC SUPPORT (ON 2015 SURVEY)
“Our students always came to us with two burning questions: How do I save the planet, and how do I make a living doing it?”

- Janet Moore and Duane Elverum, CityStudio
GREEN OPERATIONS
Target 1: Overall 50% reduction in GHGs by 2020 (from 2007 levels).
Target 2: 70% waste diversion in public facing facilities, 90% in all other City-owned facilities.
Target 3: Reduce water use in City operations by 33% by 2020 (from 2006 levels).

PRIORITY ACTIONS TO 2020
• Continue implementing the Fleet and Trip Optimization initiative
• Continue implementing the newly developed Deconstruction Standards
• Develop and implement a toxic substances management plan for City operations

2014: -29%
2020 TARGET: -50%

TOTAL TONNES OF CORPORATE CO2e EMISSIONS (INCLUDING LANDFILL)
SUMMARY

GCAP provides a clear path to ensure we reach our targets and become the greenest city in the world by 2020.

We are at our best when we learn from each other and work together.

JOIN IN!
VANCOUVER.CA/GREENEST CITY
GREENEST CITY ACTION PLAN
2015-2020