GREENEST CITY ACTION PLAN

Past, Present, and Future // June 23, 2015





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 1 O GOAL AREAS

ZERO CARBON	Climate Leadership		
	Green Transportation		
	Green Buildings		_
ZERO WASTE	Zero Waste	Green Eco	ighter Fo
HEALTHY ECOSYSTEMS	Access to Nature	non	ootprint
	Clean Water	ηy	int
	Local Food		
	Clean Air		



PAST AND PRESENT: SHORT-TERM ACTIONS



First set of three-year SHORT-TERM ACTIONS

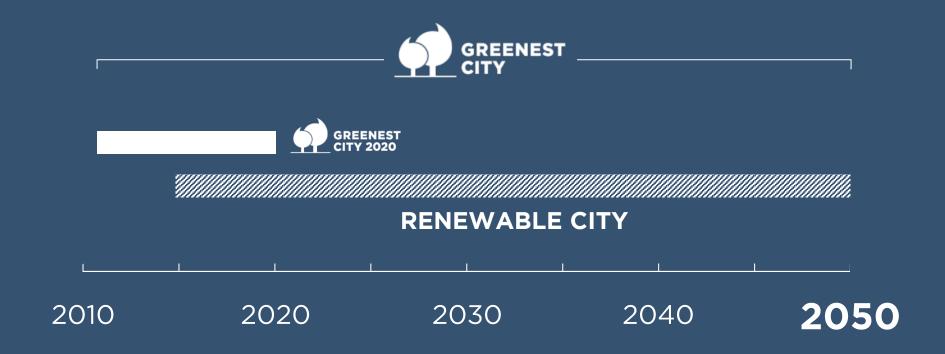
We are now identifying our next set of **SHORT-TERM ACTIONS**





2020 AND BEYOND

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** Revised **Greenest City Advisory Advisory** Strategy to Group Council **Committees Public** Fall/Winter Spring Summer Fall 2014 2015





GREENEST CITY PUBLIC ENGAGEMENT



RESULTS TO DATE AND FUTURE STRATEGIES

ZERO CARBON	Climate Leadership	
	Green Transportation	
	Green Buildings	
	Zero Waste	
HEALTHY ECOSYSTEMS	Access to Nature	
	Clean Water	
	Local Food	
	Clean Air	

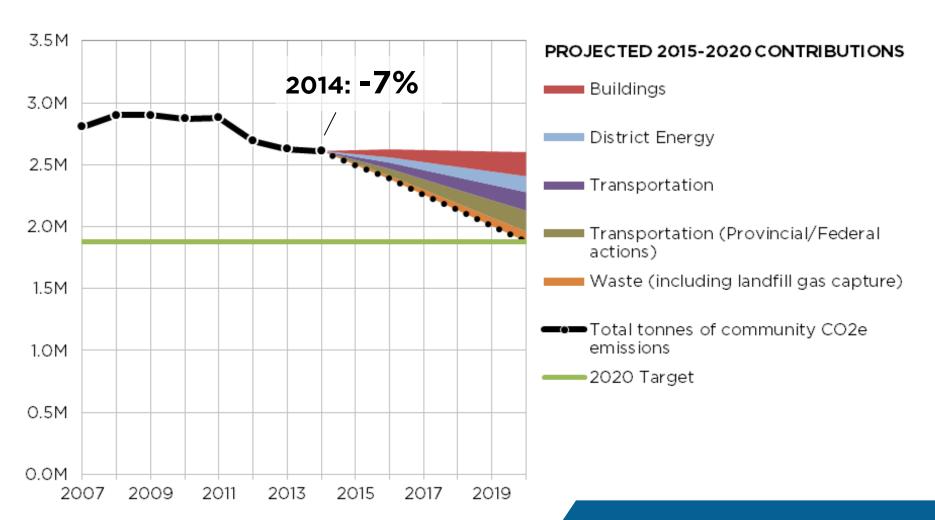


CLIMATE LEADERSHIP

GOAL: Eliminate Vancouver's dependence on fossil fuels



TONNES OF COMMUNITY CO₂e EMISSIONS





CLIMATE LEADERSHIP

GOAL: Eliminate Vancouver's dependence on fossil fuels

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

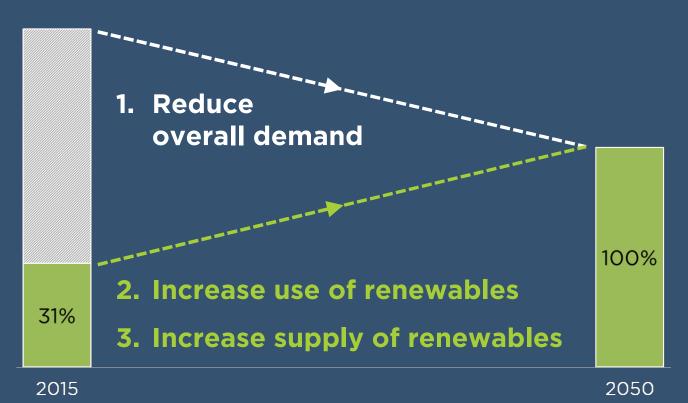
Derive 100% of the energy used in Vancouver from renewable sources



OUR PATH TO A RENEWABLE CITY

31% of Vancouver's energy is already renewable.

We will be taking action to:



100% of Vancouver's energy is renewable before 2050.



RENEWABLE CITY

CARBON NEUTRAL CITIES ALLIANCE





As with Greenest City, Renewable City goals will rely on collaboration with business, government and the public.

CITY INFLUENCE OVER RENEWABLE CITY

Green Buildings Climate Leadership CITY-LED POLICY, PROGRAMS, REGULATIONS and FINANCIAL CAPACITY Green Zero Waste Transport



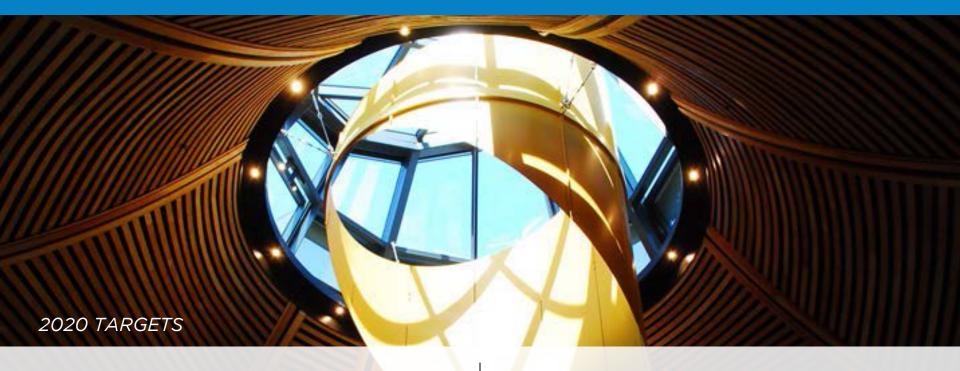
GREENEST CITY FRAMEWORK

REVISED Green Buildings **ZERO CARBON Green Transportation** Lighter Footprint **ZERO** Zero Waste WASTE П Access to Nature Clean Water **HEALTHY ECOSYSTEMS** Local Food Clean Air



GREEN BUILDINGS

GOAL: Lead the world in green building design and construction

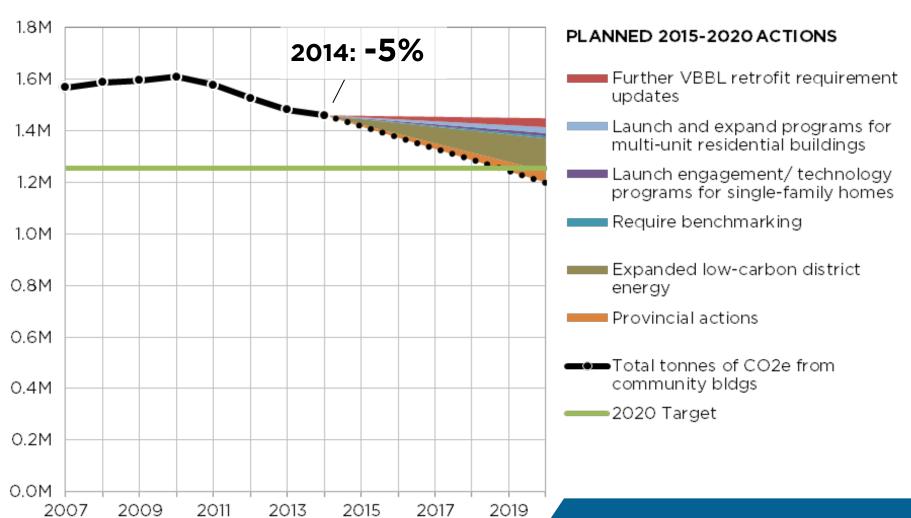


Require all buildings constructed from 2020 to be carbon neutral in operations

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



TONNES OF COMMUNITY BUILDING CO₂e EMISSIONS



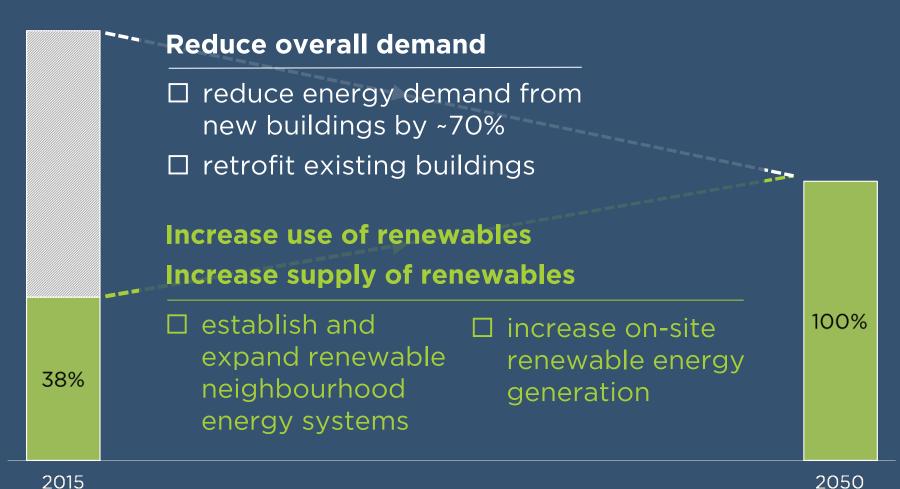




GREEN BUILDINGS

OUR PATH TO A RENEWABLE CITY

We will be taking action to:







GREEN TRANSPORTATION

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

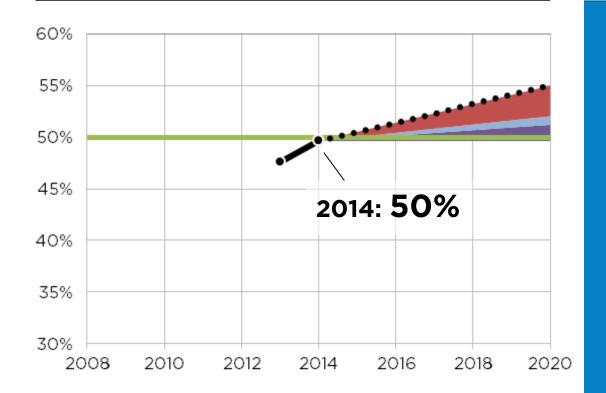


Majority (>50%) of trips by foot, bicycle and public transit

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



% MODE SHARE BY WALK, BIKE, TRANSIT



PROJECTED 2015-2020 CONTRIBUTIONS

Transit trip increase

Walk trip increase

Bike trip increase

■●■% mode share by walk, bike and transit

——2020 Target

PLANNED 2015-2020 ACTIONS

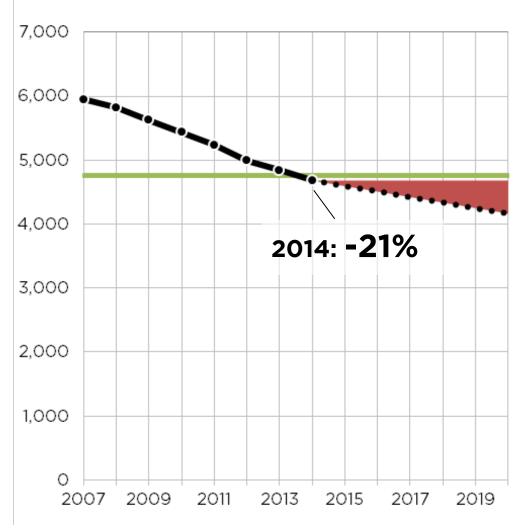
- Initiate extension of Millennium Line SkyTrain under Broadway to Arbutus
- Improve walking and cycling infrastructure on False Creek bridges

(e.g., Burrard-Pacific intersection)

Implement a BikeSharing Program



TOTAL VEHICLE KILOMETRES DRIVEN PER PERSON



PROJECTED 2015-2020 CONTRIBUTIONS

Green Transportation 2015-2020
Priority Actions

■ Total vehicle km driven per person

_____2020 Target



OUR PATH TO A RENEWABLE CITY

GREEN TRANSPORTATION

We will be taking action to:





RESULTS TO DATE AND FUTURE STRATEGIES

	Climate Leadership		
	Green Transportation		
	Green Buildings		
ZERO WASTE	Zero Waste	Green Eco	
HEALTHY ECOSYSTEMS	Access to Nature		
	Clean Water		
	Local Food		
	Clean Air		



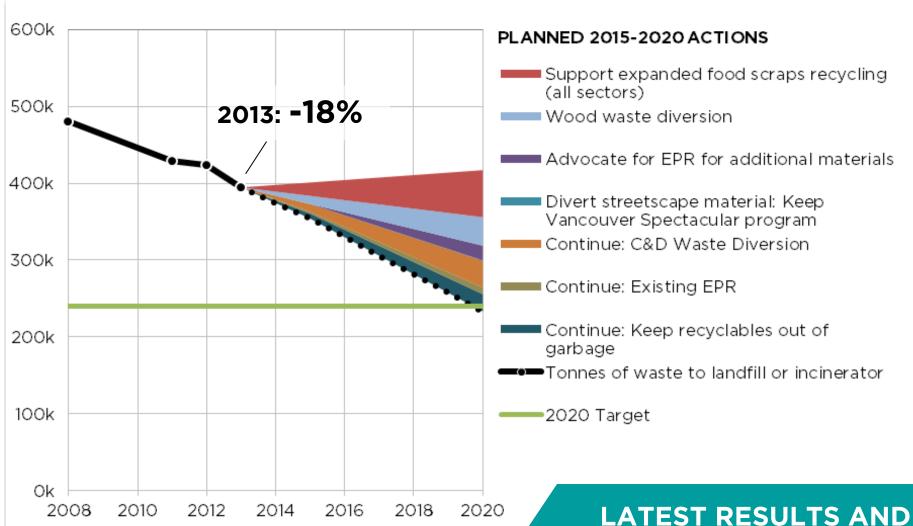


ZERO WASTE

GOAL: Create zero waste



TONNES OF WASTE TO LANDFILL/INCINERATOR







ZERO WASTE

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

	Climate Leadership		
	Green Transportation		
	Green Buildings		
	Zero Waste		
HEALTHY ECOSYSTEMS	Access to Nature	conomy	
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ACCESS TO NATURE

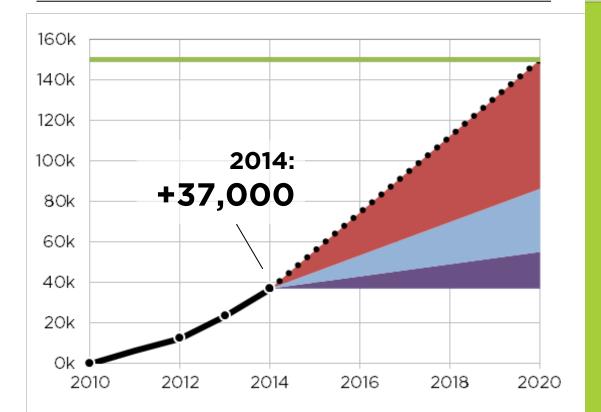
GOAL: Vancouver residents enjoy incomparable access to green spaces



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

TOTAL NEW TREES PLANTED



PROJECTED 2015-2020 CONTRIBUTIONS

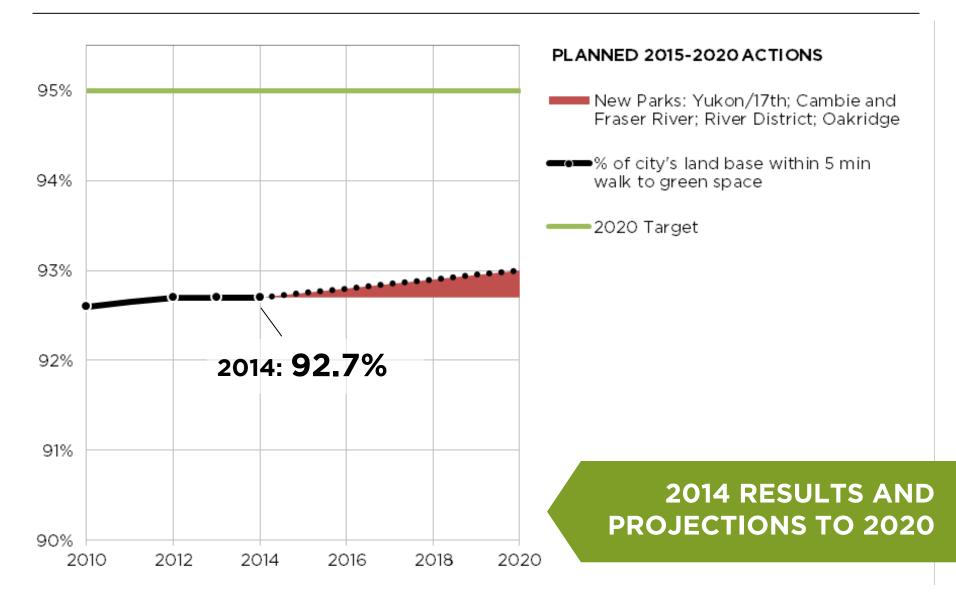


PLANNED 2015-2020 ACTIONS

- Strategically expand tree planting
- 2 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

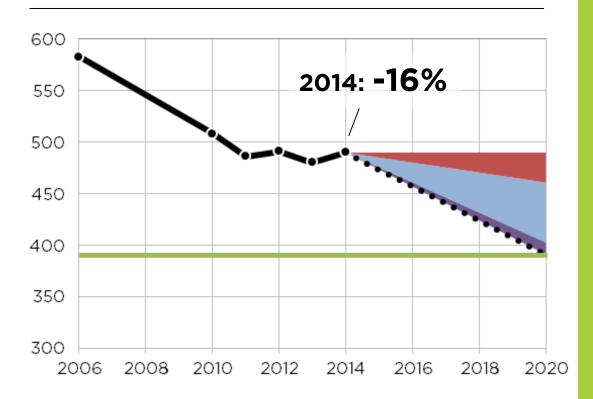


% OF CITY'S LAND BASE WITHIN 5 MIN WALK TO GREEN SPACE





TOTAL WATER CONSUMPTION PER CAPITA



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

CLEAN WATER

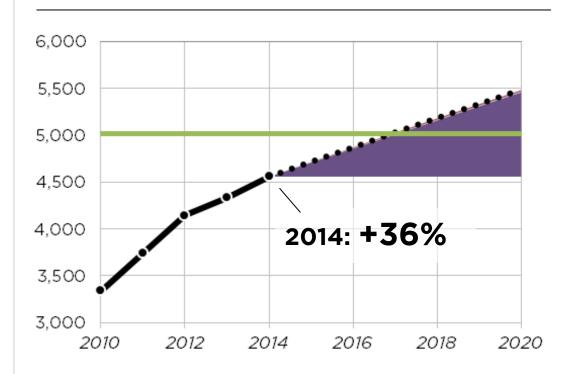
GOAL

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

NUMBER OF NEIGHBOURHOOD FOOD ASSETS



PLANNED 2015-2020 ACTIONS

Urban Farming Policy

Farmers markets and community food markets

Urban agriculture and community kitchens

Food Bank

Number of neighbourhood food assets

---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

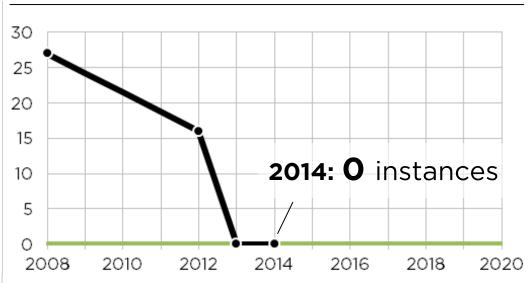




PLANNED 2015-2020 ACTIONS

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

TOTAL EXCEEDANCES OF AIR QUALITY GUIDELINES



Total exceedances of air quality guidelines

----2020 Target





CLEAN AIR

GOAL

Breathe the cleanest air of any major city in the world

2020 TARGET

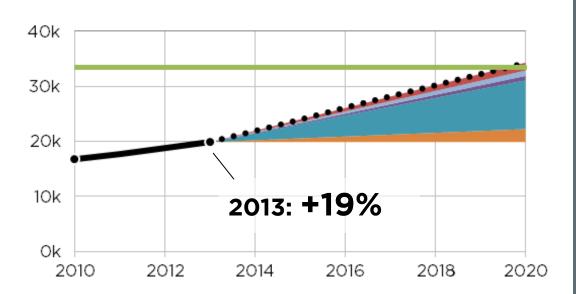
Meet or beat the most stringent air quality guidelines from Metro Vancouver, British Columbia, Canada, and the World Health Organization

2014 RESULTS

RESULTS TO DATE AND FUTURE STRATEGIES

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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 GREEN/LOCAL FOOD JOBS

GREEN ECONOMY

GOAL

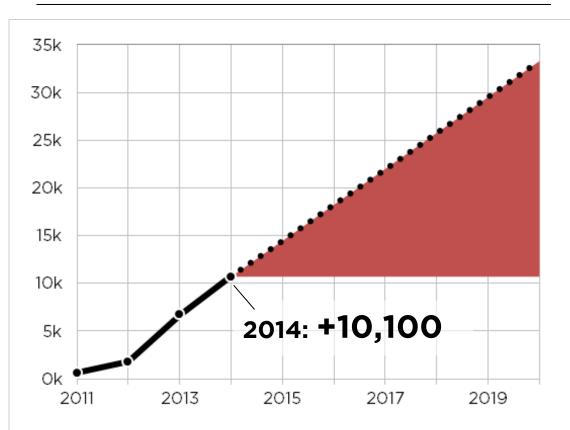
Secure Vancouver's reputation as a mecca of green enterprise

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

NUMBER OF PEOPLE EMPOWERED BY CITY-LED OR SUPPORTED PROJECT



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

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 iobs

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



PUBLIC ENGAGEMENT

for GCAP and Renewable City, online and in person

June to October

GREENEST CITY STRATEGY

to Council

Fall 2015

RENEWABLE CITY STRATEGY

to Council

Fall 2015



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





