# **GREENEST CITY ACTION PLAN**

Implementation Update // July 9, 2014







## **OBJECTIVE**

To become the greenest city in the world by 2020



#### **TEN GOAL AREAS**

**ZERO CARBON** 



Climate Leadership

**Green Transportation** 

**Green Building** 

**ZERO WASTE** 



Zero Waste

**HEALTHY ECOSYSTEMS** 



Access to Nature

Clean Water

Local Food

Clean Air

\_ighter Footprint

Green Economy

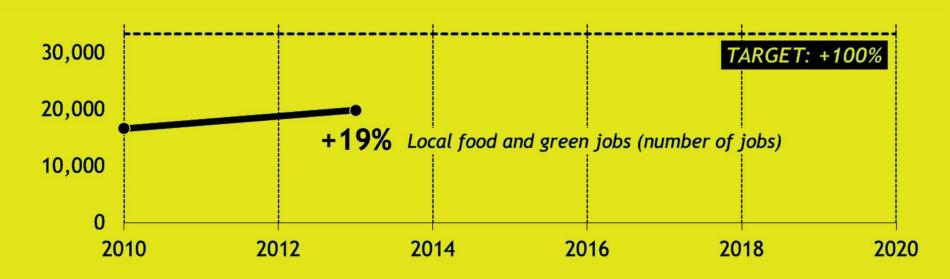
#### **GREEN ECONOMY**

Secure Vancouver's international reputation as a mecca of green enterprise

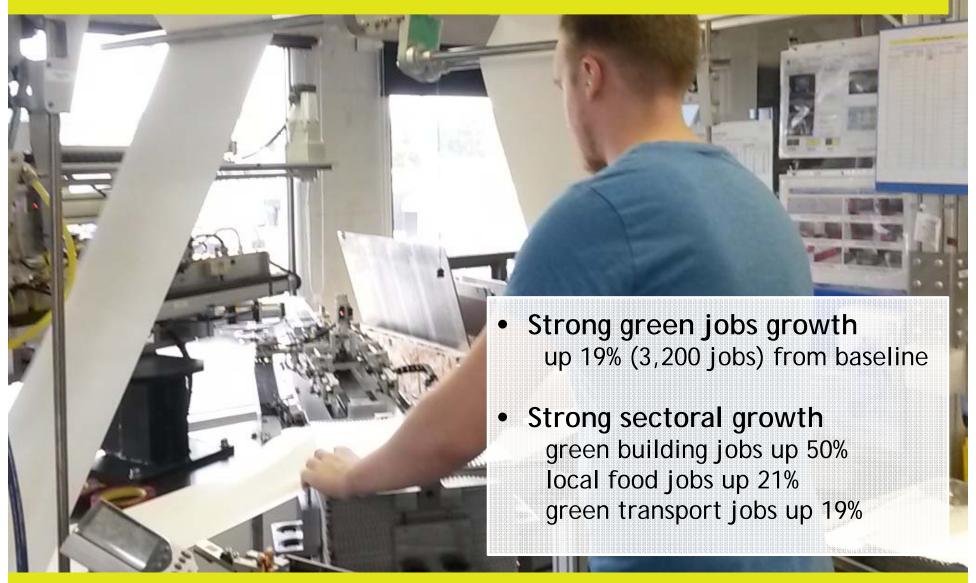


## **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total number of green and local food jobs	16,700 (2010)	19,900	19%	33,400
per cent of businesses engaged in greening their operations	5% (2011)	TBD New survey to be conducted early 2015	TBD	10%







 Showcasing green business "Grizzly Den" local cleantech showcase and business-pitch session at GLOBE

"In Vancouver, we found a special combination of things we didn't find anywhere else and it got us really excited. There is a feeling of looking forward, a commitment to excellence, of innovation and sustainability."

Chris Anderson, TED Curator



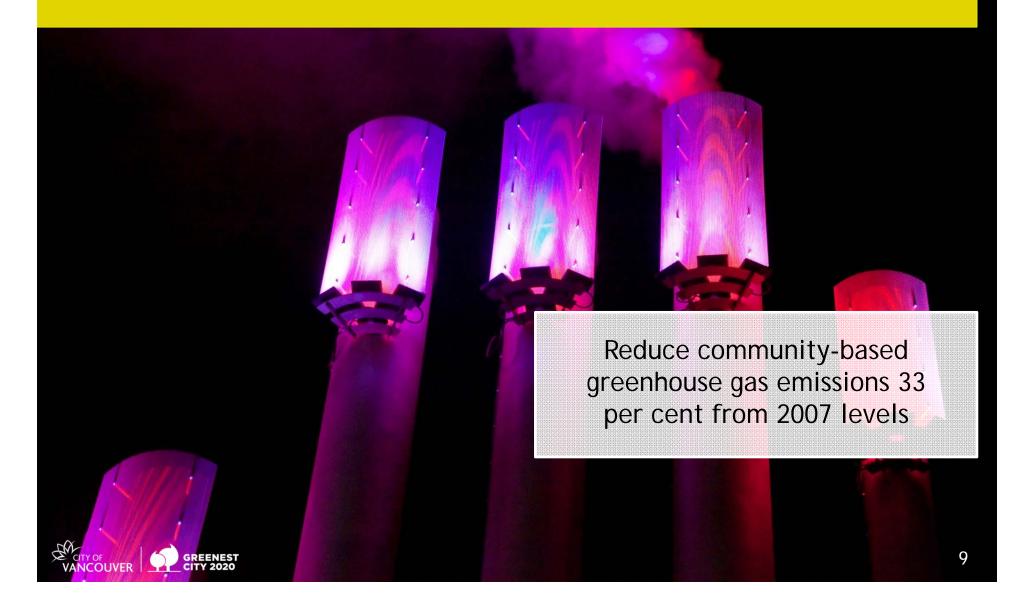
# CHALLENGES TO IMPLEMENTATION





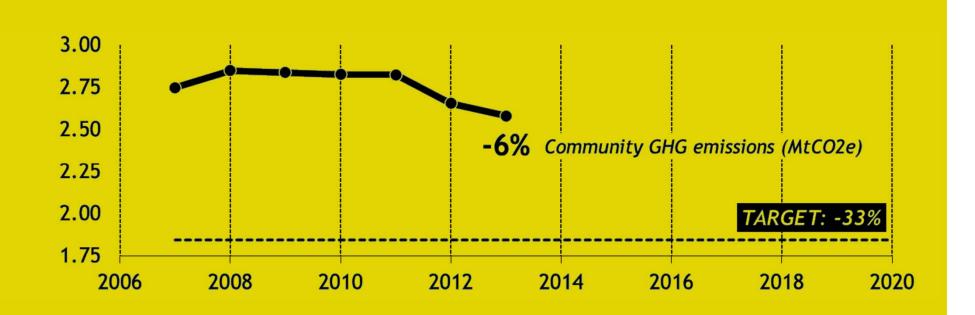
## **CLIMATE LEADERSHIP**

Eliminate Vancouver's dependence on fossil fuels

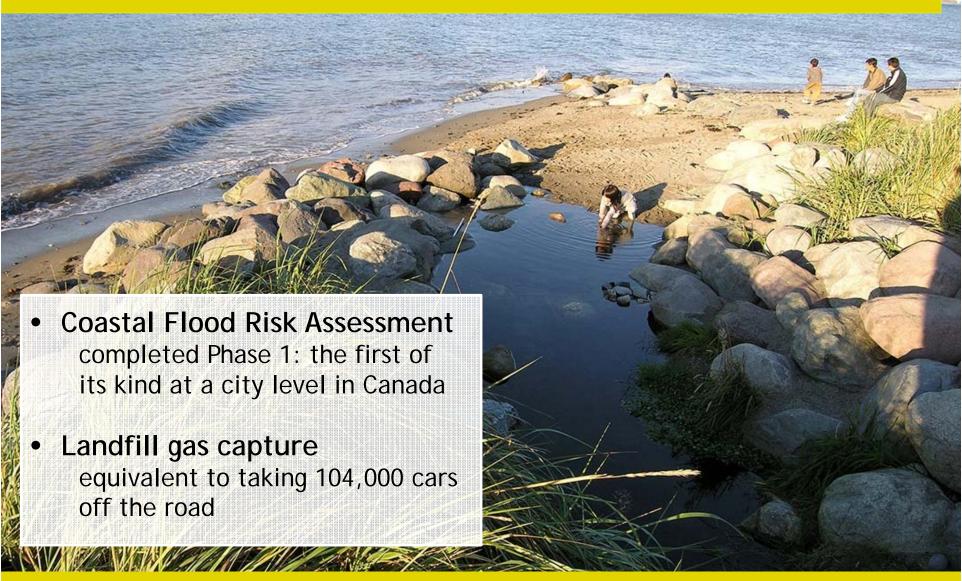


## **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total tonnes of community CO2e emissions (tCO2e)	2,750,000 (2007)	2,585,000	-6%	1,846,000









- Southeast False Creek NEU
   neighbourhood energy utility
   service area up 30% in 2013;
   future systems in development
- Carbon neutrality
   City operations carbon neutral under Provincial framework

#### Winner:

World Wildlife Fund 2013 Global Earth Hour Capital for climate protection leadership

FCM 2014 Green Champion Award for climate leadership



#### CHALLENGES TO IMPLEMENTATION



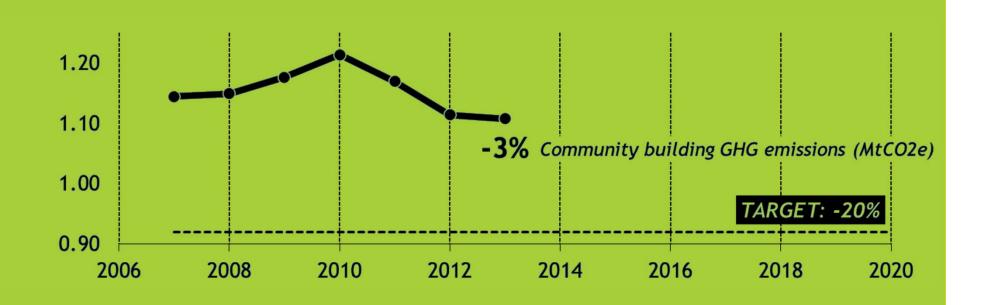
#### **GREEN BUILDINGS**

Lead the world in green building design and construction



## **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
tonnes CO2e from residential and commercial buildings (tCO2e)	1,145,000 (2007)	1,110,000	-3%	916,000









- Green Landlords Pilot
   City support led to rental building owners commitments to energy upgrades that will:
  - reduce GHGs by 14%
  - pay for themselves in 2.4 years

#### Winner:

World Green Building Council 2013 Best Green Building Policy

## CHALLENGES TO IMPLEMENTATION





## **GREEN TRANSPORTATION**

Make walking, cycling, and public transit preferred options



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

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

# RESULTS TO DATE

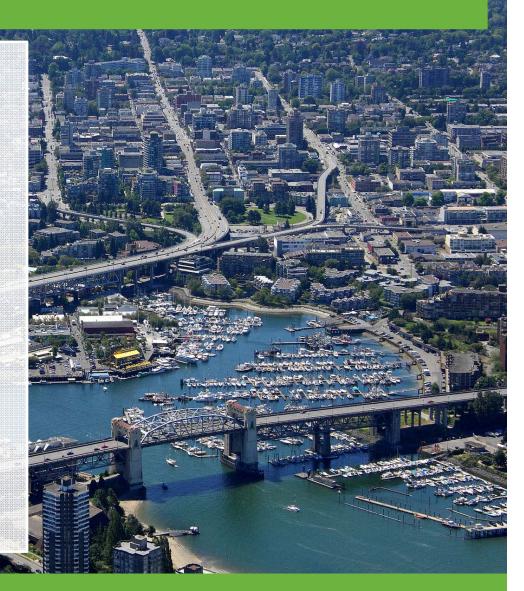
INDICATOR	BASELINE	2012	CHANGE	2020 TARGET
per cent mode share by foot, bike and transit	40% (2008)	44%	+10%	50%
total vehicle km driven per person	-	TBD	TBD	-20%

New survey to be conducted late 2014

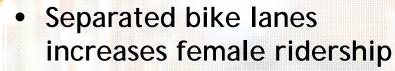




- Seaside Greenway completed last leg of 28km continuous walking/cycling route; also improved Comox-Helmcken & Union Street routes
- Burrard Street Bridge improvements simplification of south intersection improves safety for all users
- Powell Street Overpass completed this core section of the Portside Greenway







 Hornby: up from 28% to 37% from 2010 to 2012

41% city-wide average

19% of Vancouver's 265 kilometre bike network is designated "All Ages and Abilities": high-quality low-stress routes suitable for novice riders, families with children, and the elderly.



# CHALLENGES TO IMPLEMENTATION



# **ZERO WASTE**

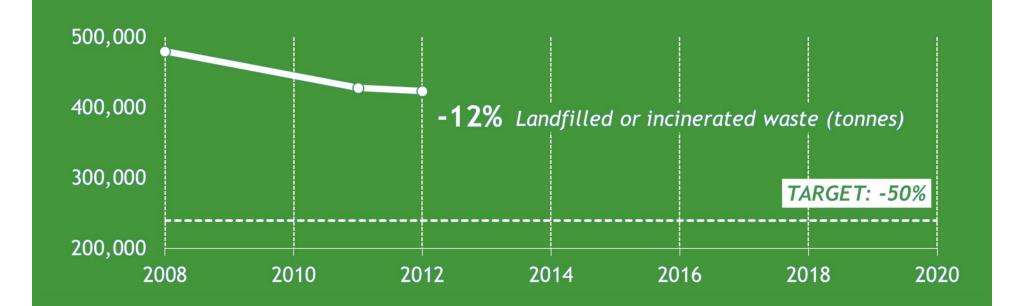
Create zero waste



## **RESULTS TO DATE**

INDICATOR	BASELINE	2012	CHANGE	2020 TARGET
annual solid waste disposed to landfill or incinerator (tonnes)	480,000 (2008)	424,000	-12%	240,000

Metric relies on Metro Vancouver data and is always one year in arrears









 Heritage Action Plan recycling requirement

Council approved recycling and reuse requirements for older homes in order to help preserve architectural character and reduce waste

Since the Green Bin program began for single family and duplex homes, approximately 40% more of their total waste is being diverted from landfill

#### CHALLENGES TO IMPLEMENTATION



- Regional organics ban timely and effective implementation of ban will impact success
- Green Bins for apartments and condos

difficult to establish due to building space limitations and private hauler services

 Reliance on regional data may not account for waste moving out of region

# **ACCESS TO NATURE**

Vancouver residents enjoy incomparable access to green spaces

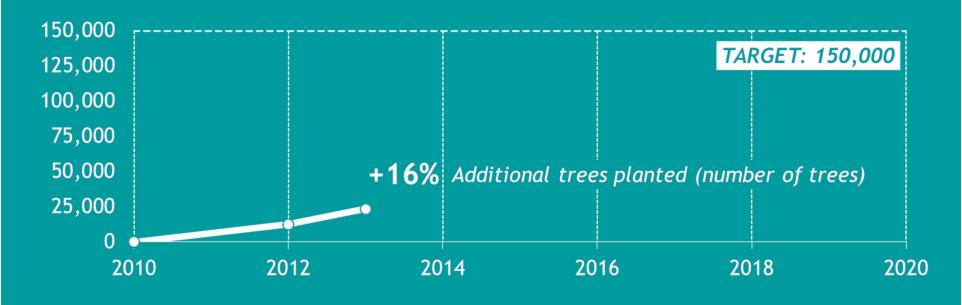


Ensure every Vancouver resident lives within a five-minute walk of a park, beach, greenway or other natural space

Plant 150,000 additional trees in the city between 2010 and 2020

# **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total number of additional trees planted	0 (2010)	23,400	16%	150,000
per cent of city's land base within 5-min walk to a green space	92.6% (2010)	92.7%	0.1%	95%









# CHALLENGES TO IMPLEMENTATION





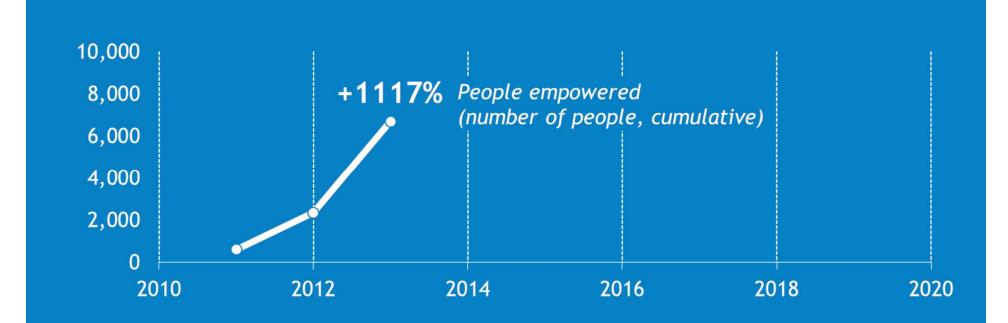
# LIGHTER FOOTPRINT

Achieve a one-planet ecological footprint



# **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
Number of people empowered by a City-led or City-supported project to take personal action in support of Greenest City or reduce levels of consumption	600 (2011)	6,700	1117%	







- City Studio projects
  - Britannia Food Share: youth recover unwanted food from local businesses, learn to prepare it, and feed themselves
  - free public pianos enliven public spaces making walking more rewarding
- Green Events

resources to encourage sustainable practices at events (zero waste, cycling support)

Greenest City Scholars
 Expanded program with UBC





#### **CLEAN WATER**

Vancouver will have the best drinking water of any city.



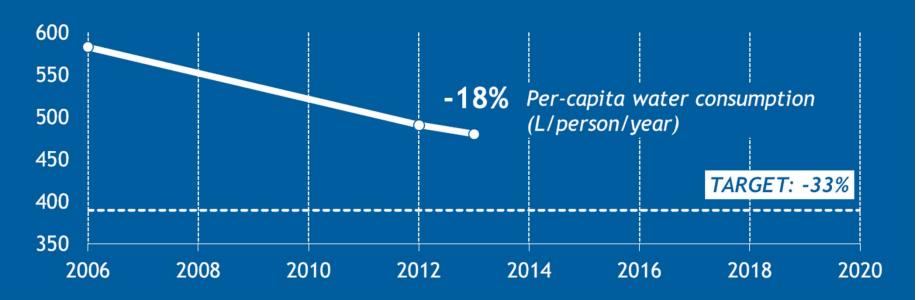
Meet or beat the strongest of BC, Canadian and international drinking water quality standards and guidelines

Reduce per capita water consumption by 33% over 2006 levels



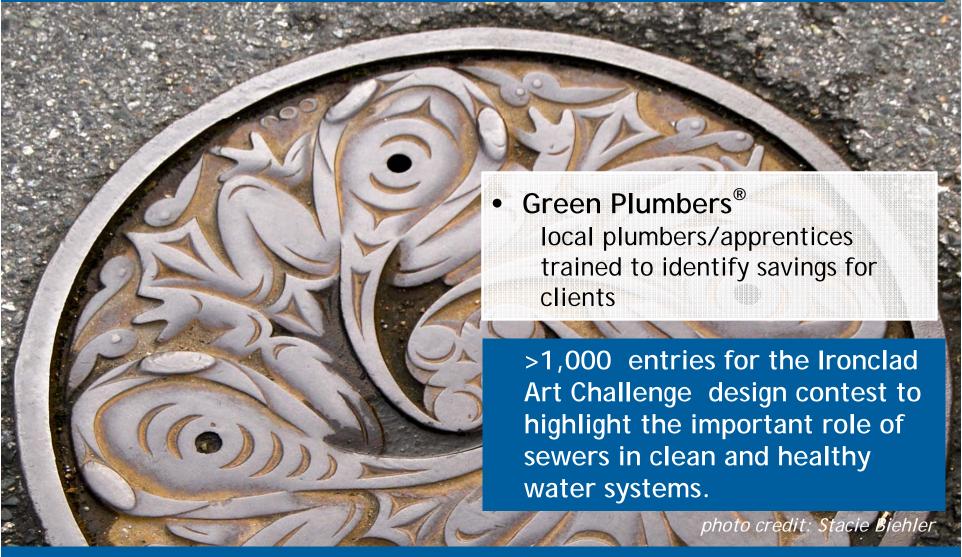
# **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total instances of not meeting drinking water quality standards	0	0		0
total water consumption per capita (L/person/day)	583 (2006)	480	-18%	390







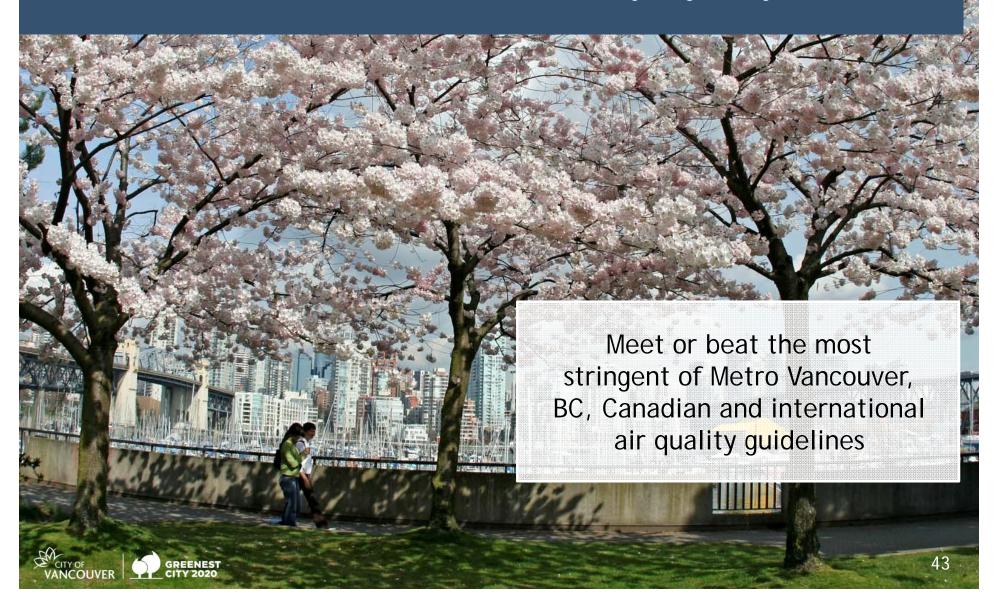






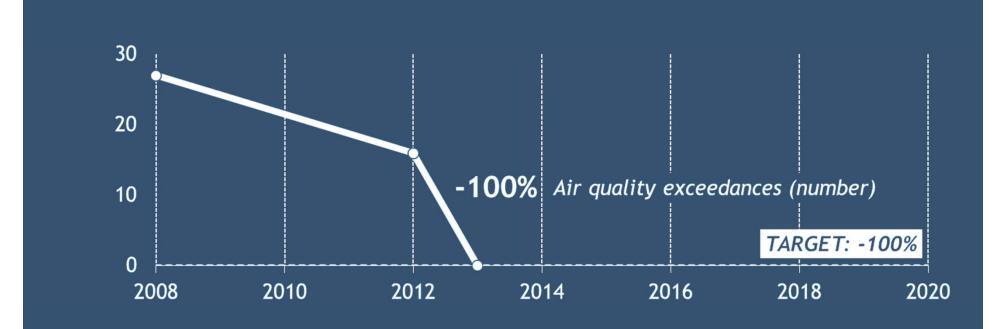


Breathe the cleanest air of any major city in the world

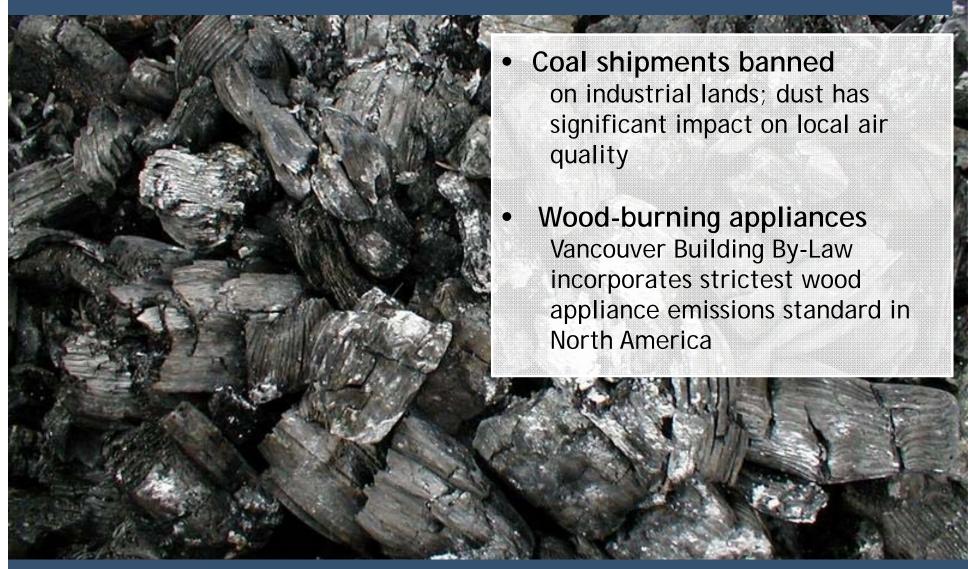


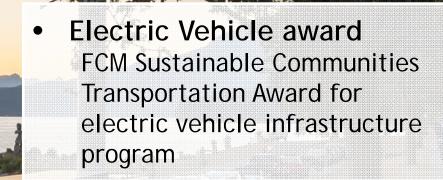
# **RESULTS TO DATE**

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total number of instances of not meeting air quality standards for ozone, particulate matter, nitrogen dioxide, and sulfur dioxide	27 (2008)	0	-100%	0









The number of electric vehicle charging stations doubled in 2013.

Currently: 93 City-installed; 57 BOMA-installed





- Marine shipping increased oil tanker traffic from pipeline expansion would increase pollution
- Air quality guidelines to be tightened air quality must remain a priority
- Provincial restriction on reselling electricity discourages business investment in public electric vehicle charging stations

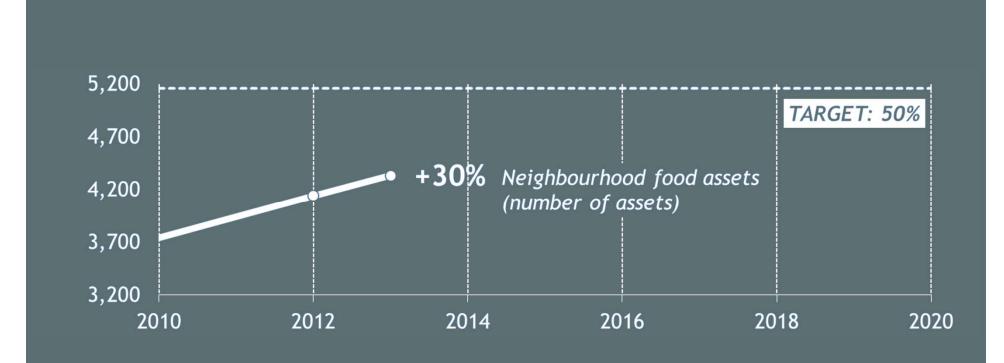
# **LOCAL FOOD**

Vancouver will become a global leader in urban food systems



# RESULTS TO DATE

INDICATOR	BASELINE	2013	CHANGE	2020 TARGET
total number of neighbourhood food assets in Vancouver	3,340 (2010)	4,332	30%	5,158











#### GCAP 2013-2014 SUMMARY



- Positive, measurable results in nearly all goal areas
- Global recognition

   for green building policy, electric vehicle infrastructure, and climate protection leadership
- Continued City, business, and community action crucial to achieving 2020 targets

vancouver.ca/greenestcity facebook.com/greenestcity @GreenestCity