

GREENEST CITY ACTION PLAN

2018-2019 UPDATE



CITY OF
VANCOUVER



GREENEST
CITY

Photo credit: @gregharipphoto

GREENEST CITY FRAMEWORK

ZERO CARBON	Green Buildings	Climate & Renewables		
	Green Transportation			
ZERO WASTE	Zero Waste		Green Economy	Lighter Footprint
HEALTHY ECOSYSTEMS	Access to Nature			
	Clean Water			
	Local Food			
	Clean Air			

3 high-level objectives

10 goal areas

ZERO CARBON

Climate and Renewables

Green Buildings

Green Transportation

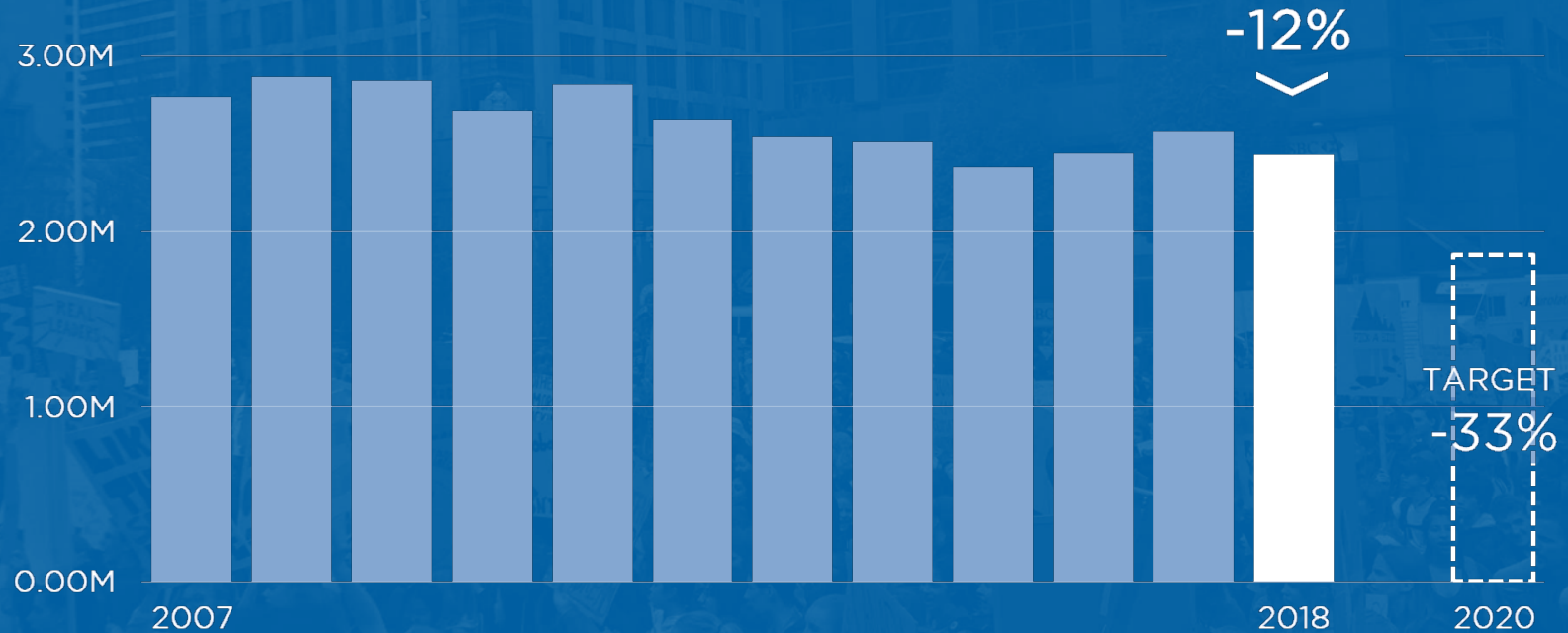


CLIMATE AND RENEWABLES



Community GHG emissions

2018: 2,440,000 tCO₂e



CLIMATE EMERGENCY RESPONSE

Climate and Equity
Working Group

Development in
conjunction with
City-wide Plan

OUR VOICES ARE
HEARD



GREEN BUILDINGS

IceBox Challenge

One Ice Box is built to the standard building code. The other is built to a high performance building standard. Each Ice Box is filled with ice and left for 1 month under the sun.

How much ice will be left in each Ice Box?

Take the #IceBoxChallenge and discover the benefits of high performance buildings.

Visit www.iceboxchallenge.com to enter and for upcoming events. Great prizes to be won!

IceBox Challenge

Presented by:

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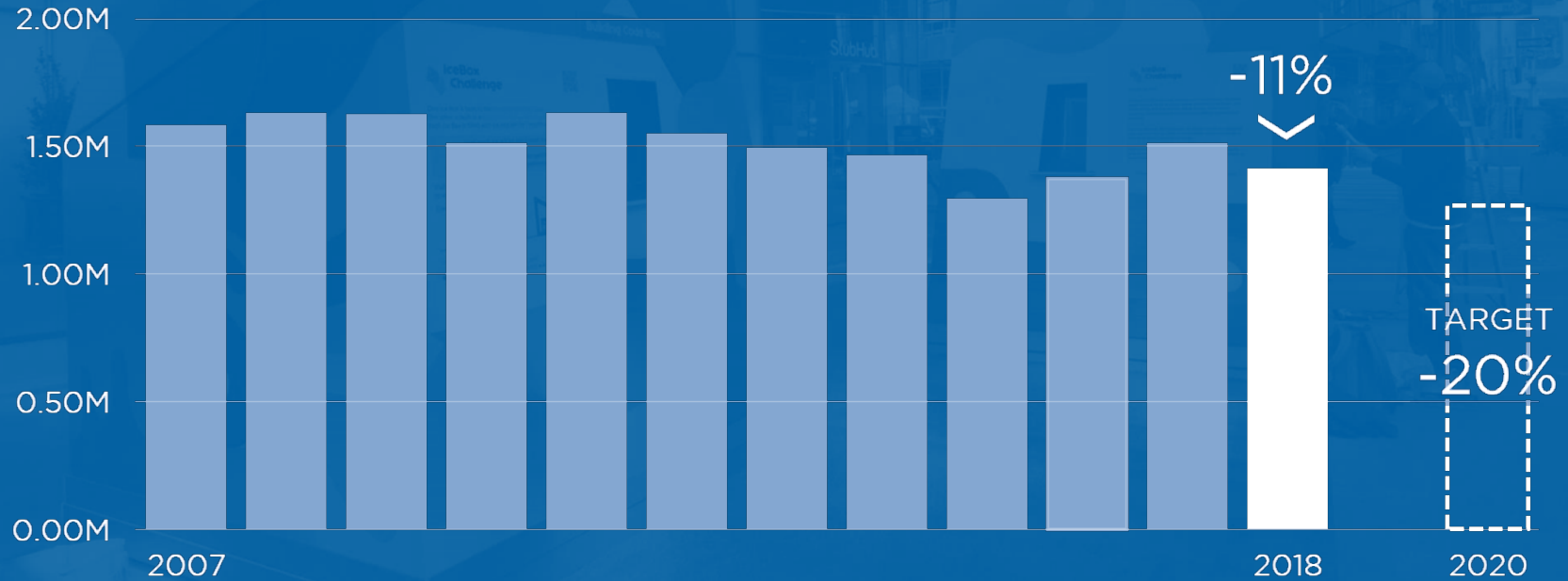
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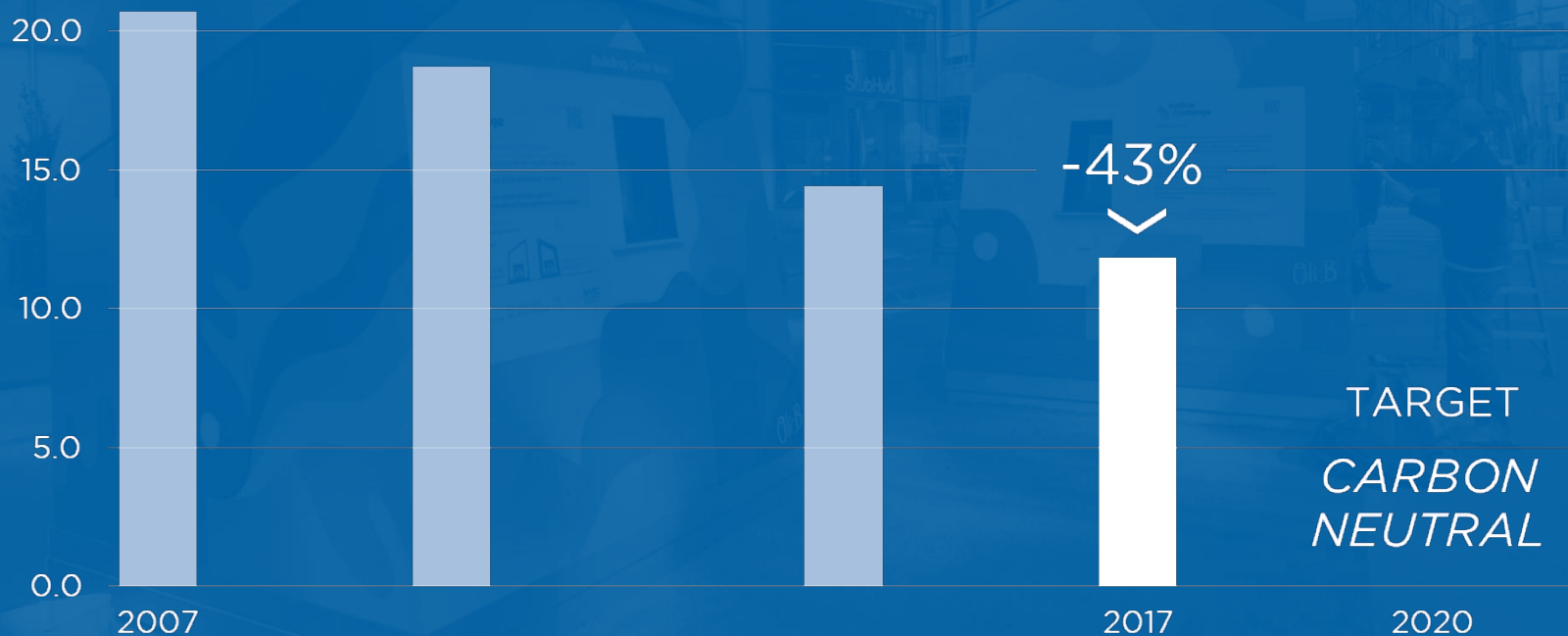
Community building GHG emissions

2018: 1,415,000 tCO₂e



*Carbon intensity of buildings:
GHG emissions of newly built floor area*

2017: 11.8 kgCO₂e/m²



HIGHLIGHTS

2.3 MILLION ZERO EMISSIONS SQUARE FEET

Over 50 projects,
all voluntary

BUILDING RETROFITS FOR DEEP CARBON REDUCTIONS

\$5M fund approved
by Council

HIGH BUILDINGS POLICY

Passive House or
BC Step Code 4



GREEN TRANSPORTATION

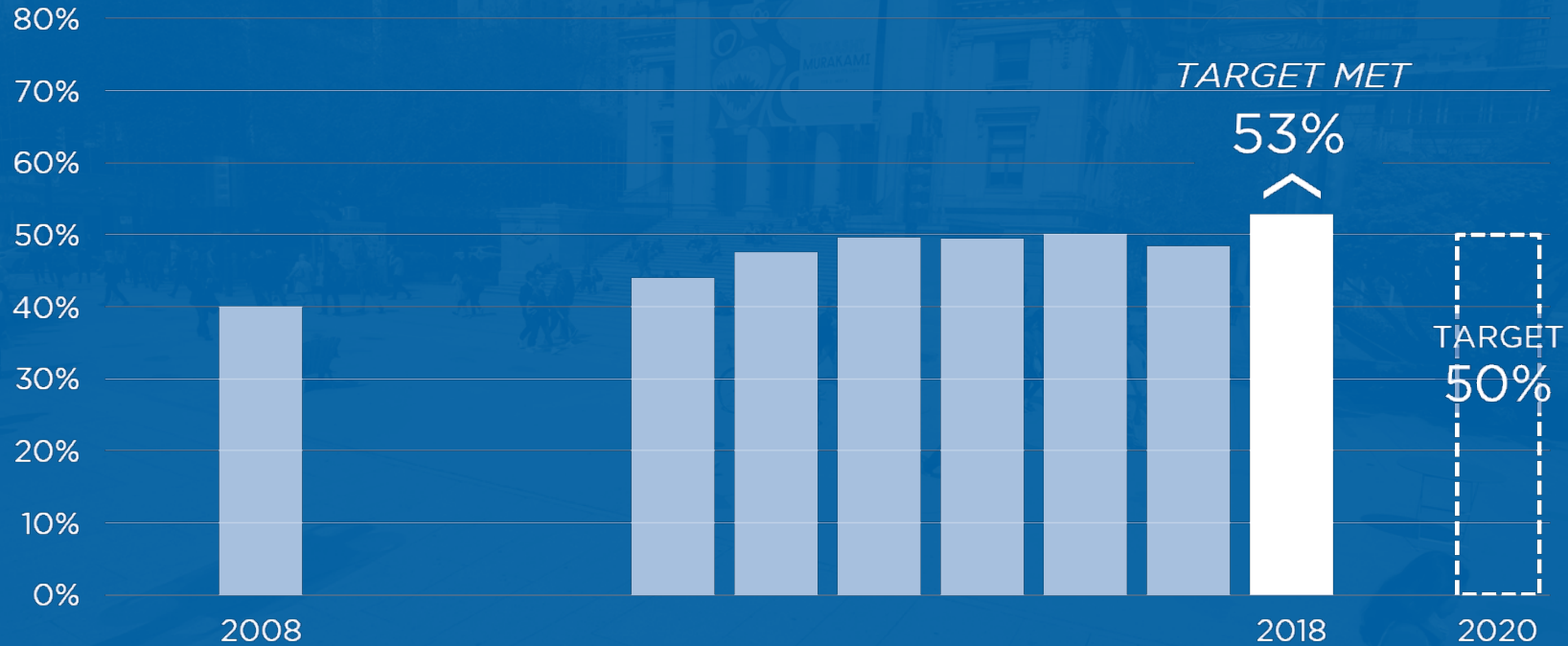
% mode share by walk, bike, and transit

2018: 53%

TARGET MET

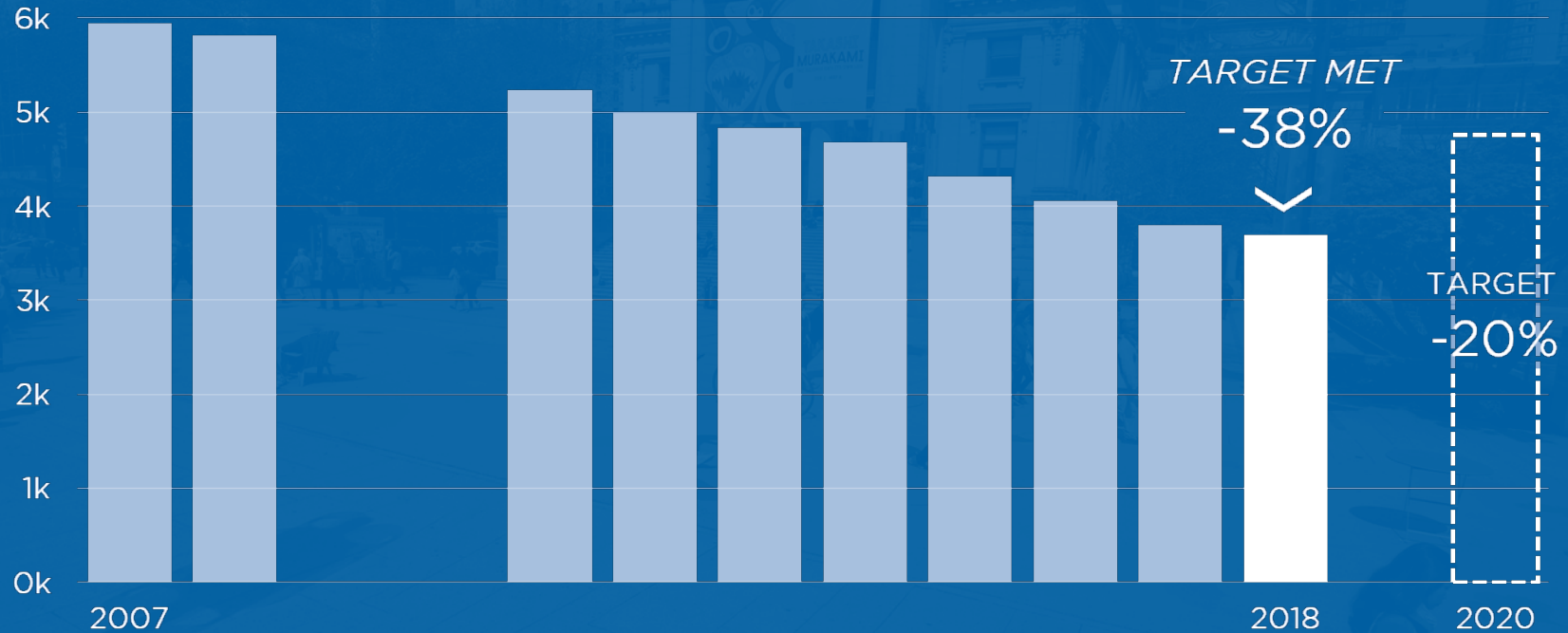
53%

TARGET
50%



Annual vehicle kilometres driven per person (VKT)

2018: 3,690 km





HIGHLIGHTS

EXPANDED CURB CUTS INSTALLATION

More walking accessibility to transit

800 ROBSON APPROVAL

The heart of downtown

PARKING-SPACE MINIMUMS IN NEW BUILDINGS

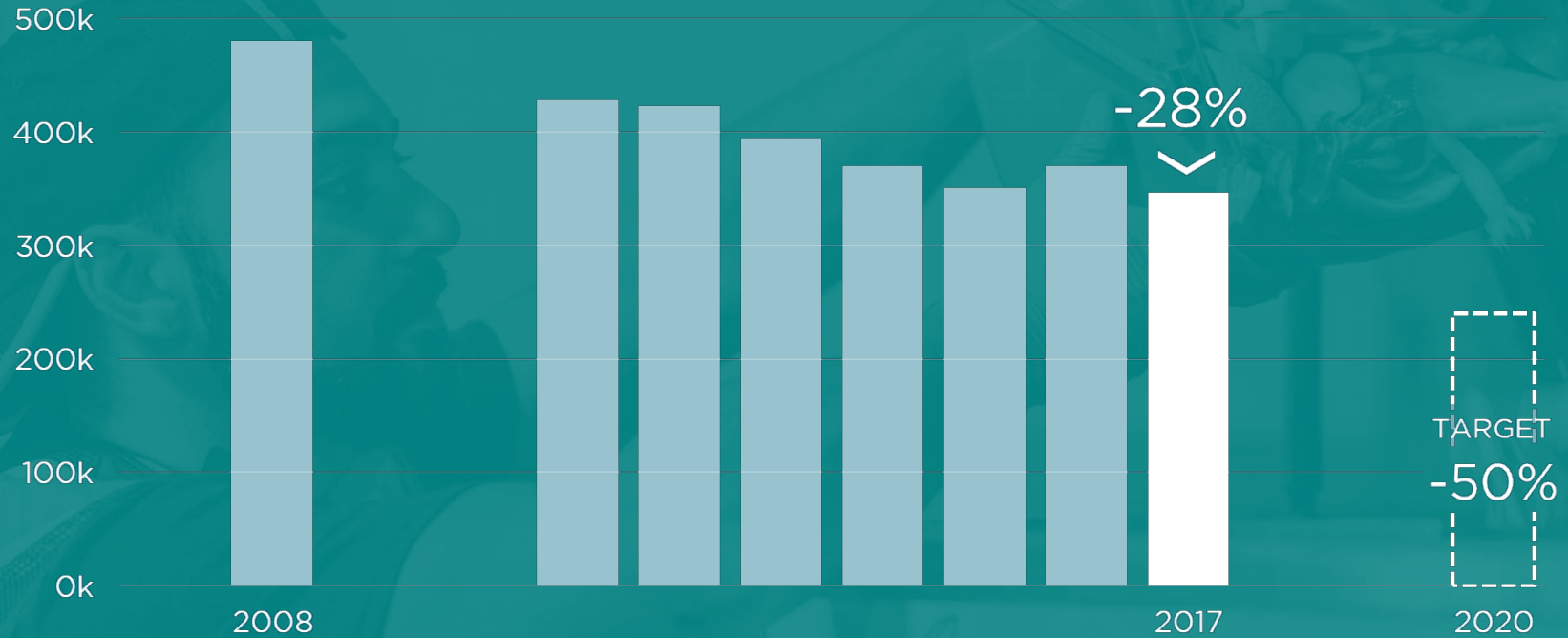
Stopped requiring minimum number

ZERO WASTE



Solid waste disposed to landfill and incinerator

2017: 347,000 tonnes





HIGHLIGHTS

RECORD-SETTING DROPOFF EVENTS

1,800+ residents
43 tonnes electronics
230 volunteers

WASTE-TO-BIOFUEL PILOT

Processing wood
waste to fuel local
cement kilns

ZERO WASTE: THE NEXT GENERATION

900 students
designed waste-
reduction plans



HEALTHY ECOSYSTEMS

Access to Nature

Clean Water

Local Food

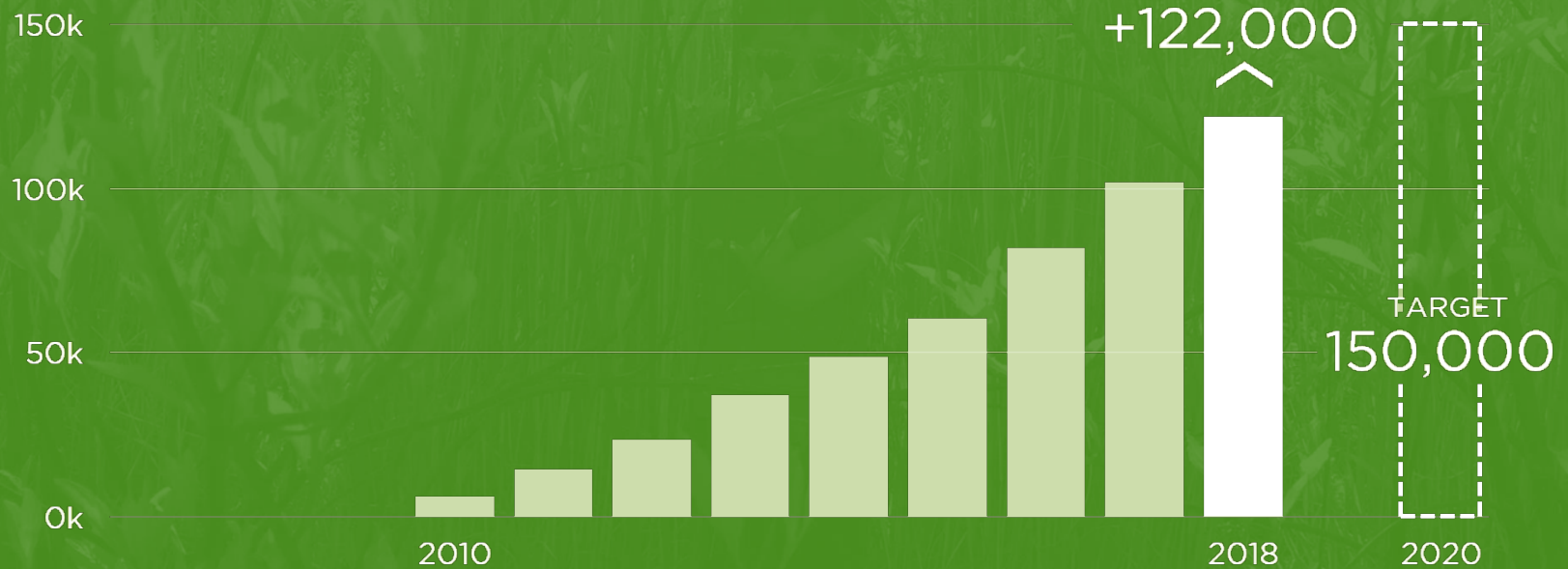
Clean Air



ACCESS
TO NATURE

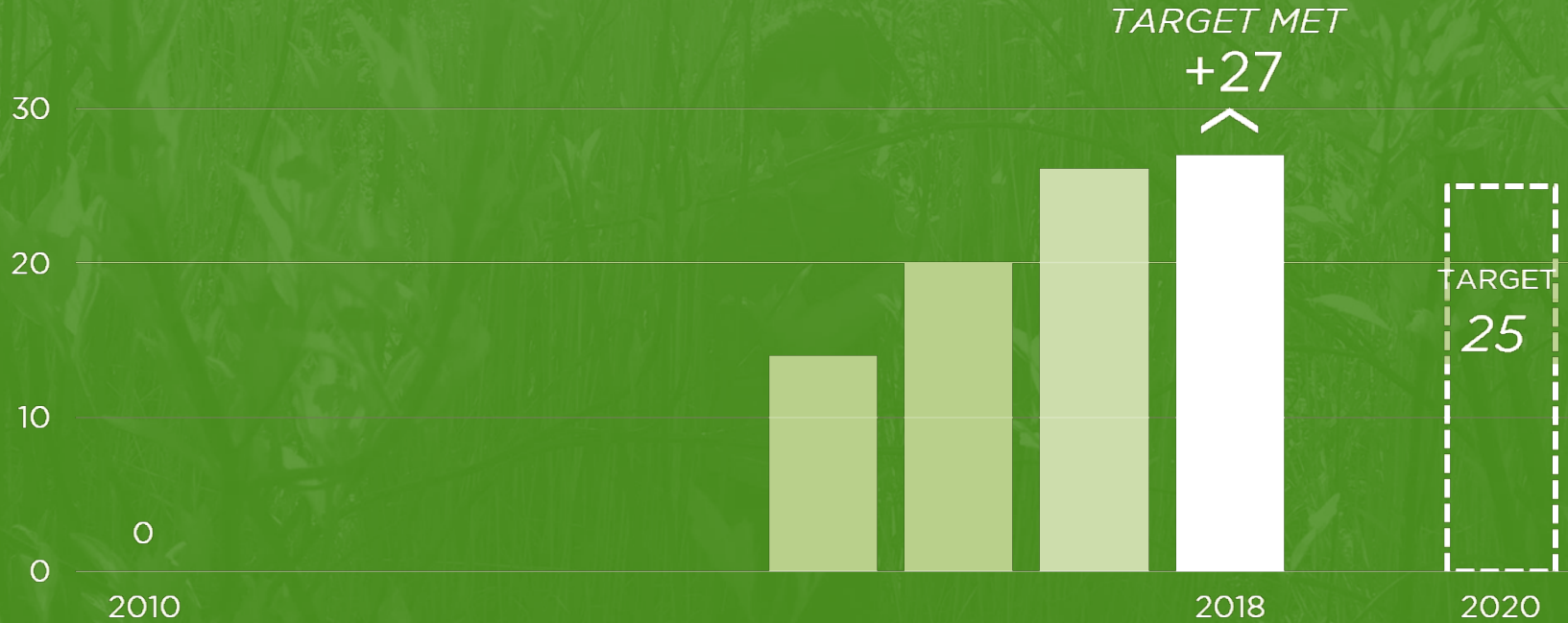
Additional trees planted

2018: 122,000 trees



Hectares of natural area restored or enhanced

2018: 27 hectares



HIGHLIGHTS

VANPLAY: CONNECTING NATURAL SPACES

Changing the way
we navigate our city

MUSQUEAM CREEK RESTORATION

Musqueam Aquatic
Habitat Restoration
Group

RENFREW RAVINE RENOVATION

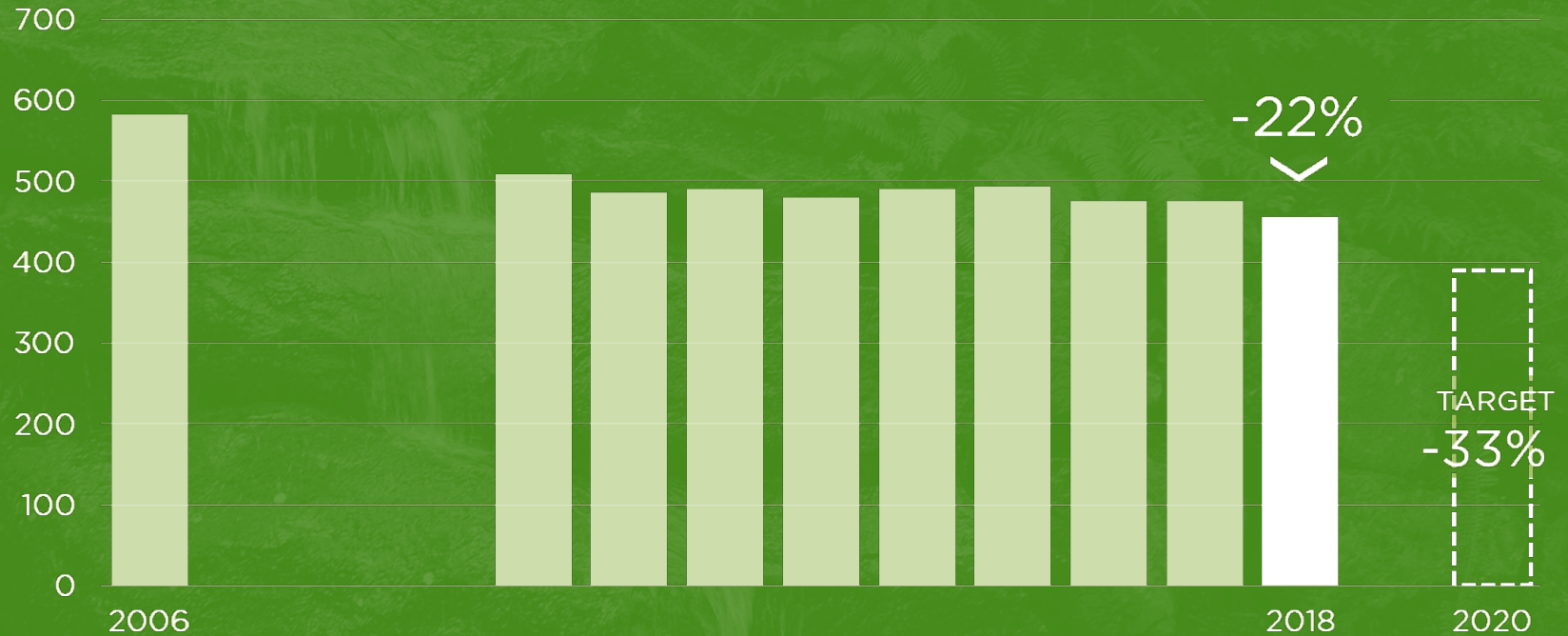
Elevated boardwalk
brought together
communities, schools,
Indigenous knowledge



CLEAN WATER

Water consumption per person

2018: 456 L/person/year





HIGHLIGHTS

ALTERNATE WATER SYSTEMS

New requirements for
rainwater harvesting

ONE WATER

Reinventing water
management and
watershed revival

LEAK BRIGADE TRIAL

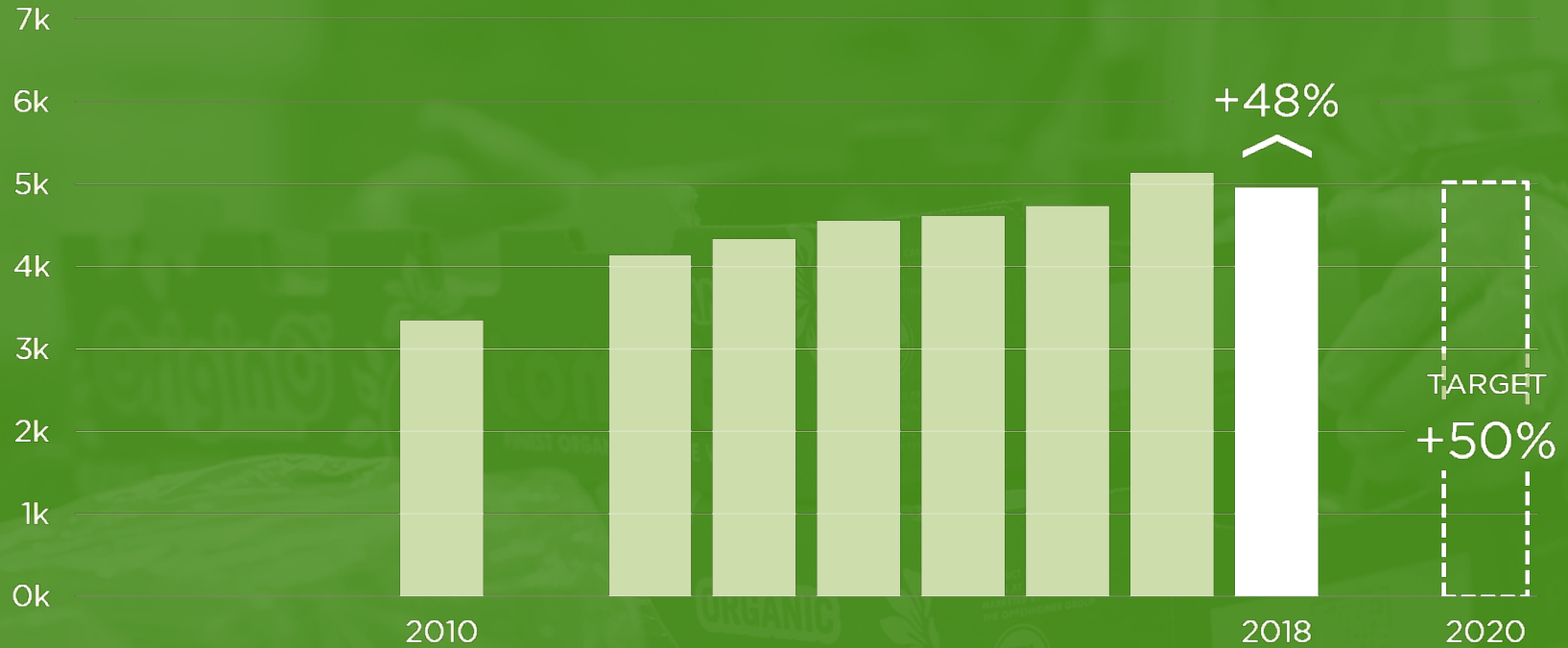
Detecting leaks
between public-
private infrastructure

LOCAL FOOD



Neighbourhood food assets

2018: 4,960 food assets





HIGHLIGHTS

RILEY PARK COMMUNITY GARDEN

Events, education,
communities and
charities

RESILIENT NEIGHBOURHOODS PROGRAM

Building strong
social connections

MEAL PROGRAM RESILIENCE

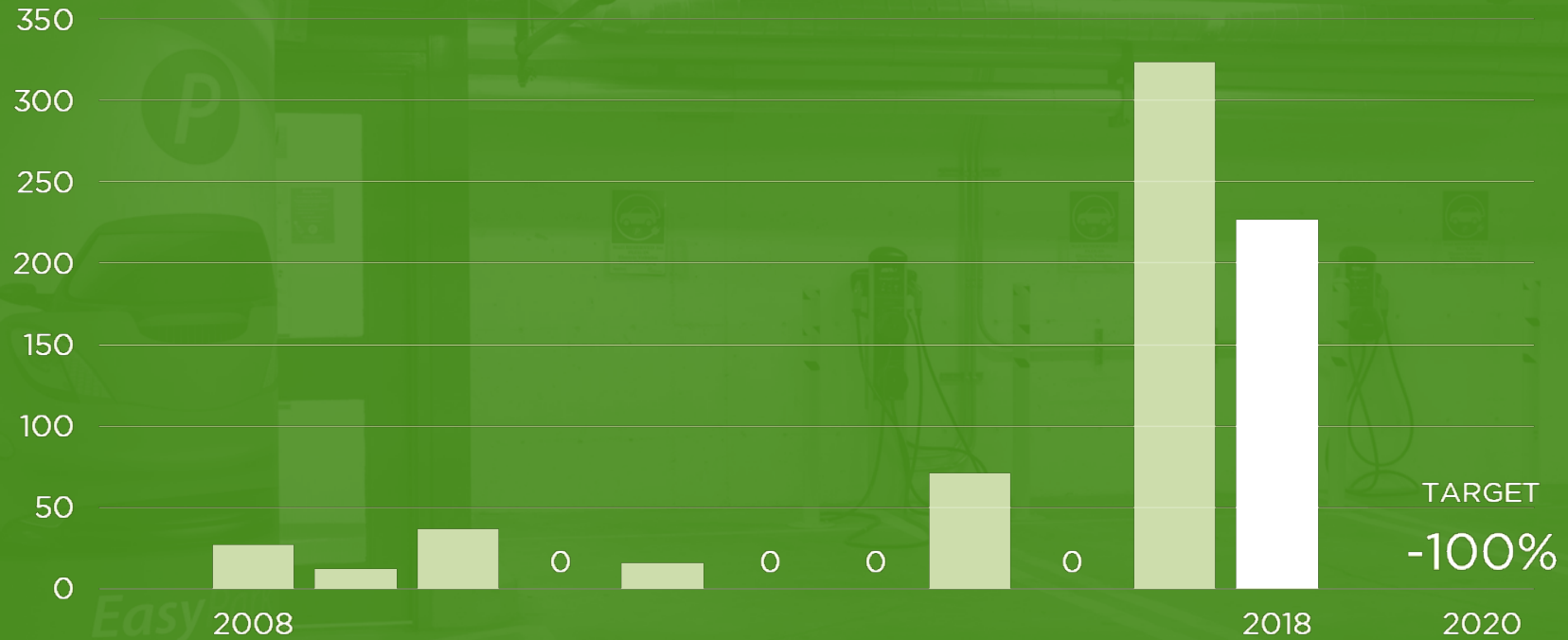
Strengths and
weaknesses in
emergencies



CLEAN AIR

Air quality exceedences

2018: 227 instances





HIGHLIGHTS

FIRST FULL-SCALE EHUB

South Hill BIA,
Fraser and E. 44th Ave

EV-RESERVED PARKING

10% of stalls in 18
EasyPark lots

SENIOR GOVERNMENT EV INCENTIVES

Up to \$14k off
a new EV in BC



ZERO
CARBON

ZERO
WASTE

HEALTHY
ECOSYSTEMS

Green Economy

Lighter Footprint

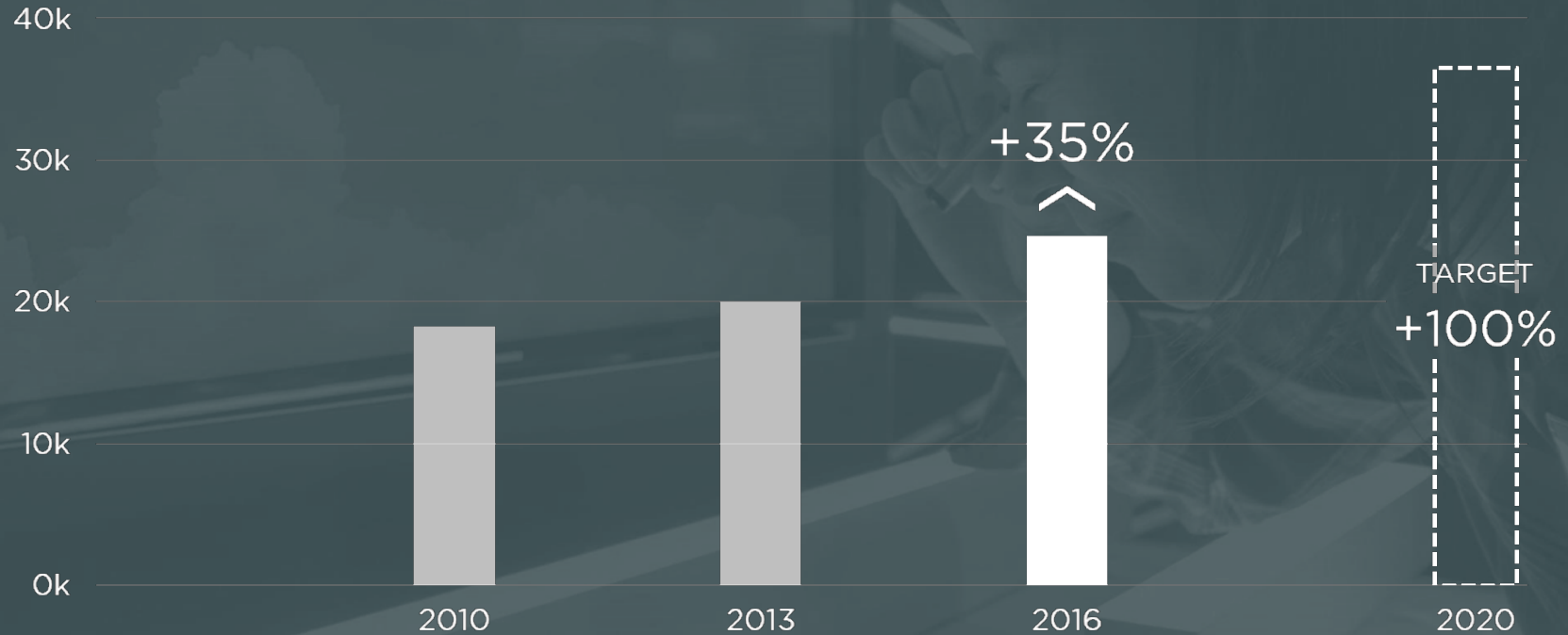
Green Operations

C.O.V. WATERWORKS



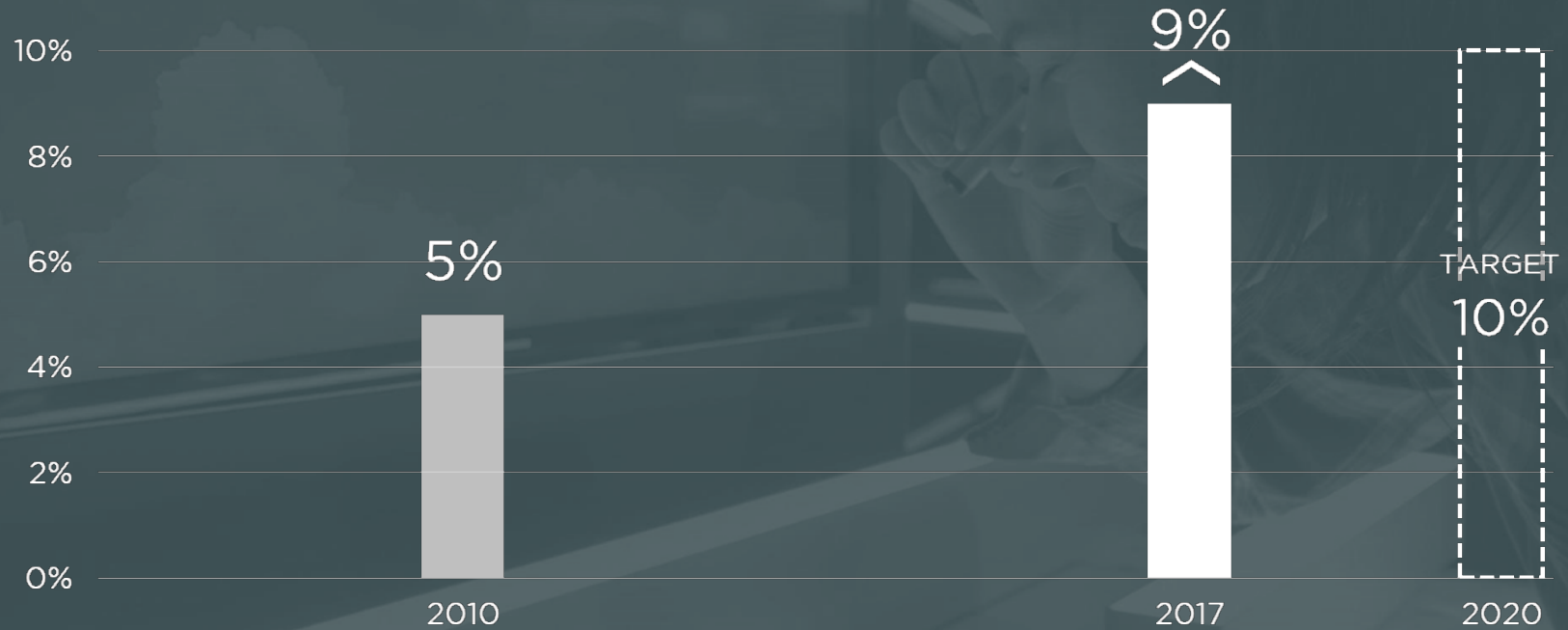
Green and local food jobs

2016: 24,700 jobs



Businesses engaged in greening their operations

2017: 9%



HIGHLIGHTS

TRAINING TOMORROW'S WORKFORCE

VEC matches
businesses with
student projects

\$3.3B GREEN BUILDING LOCAL OPPORTUNITY

Vancouver
businesses poised
to be global leaders

GREEN AND DIGITAL DEMONSTRATION PROGRAM

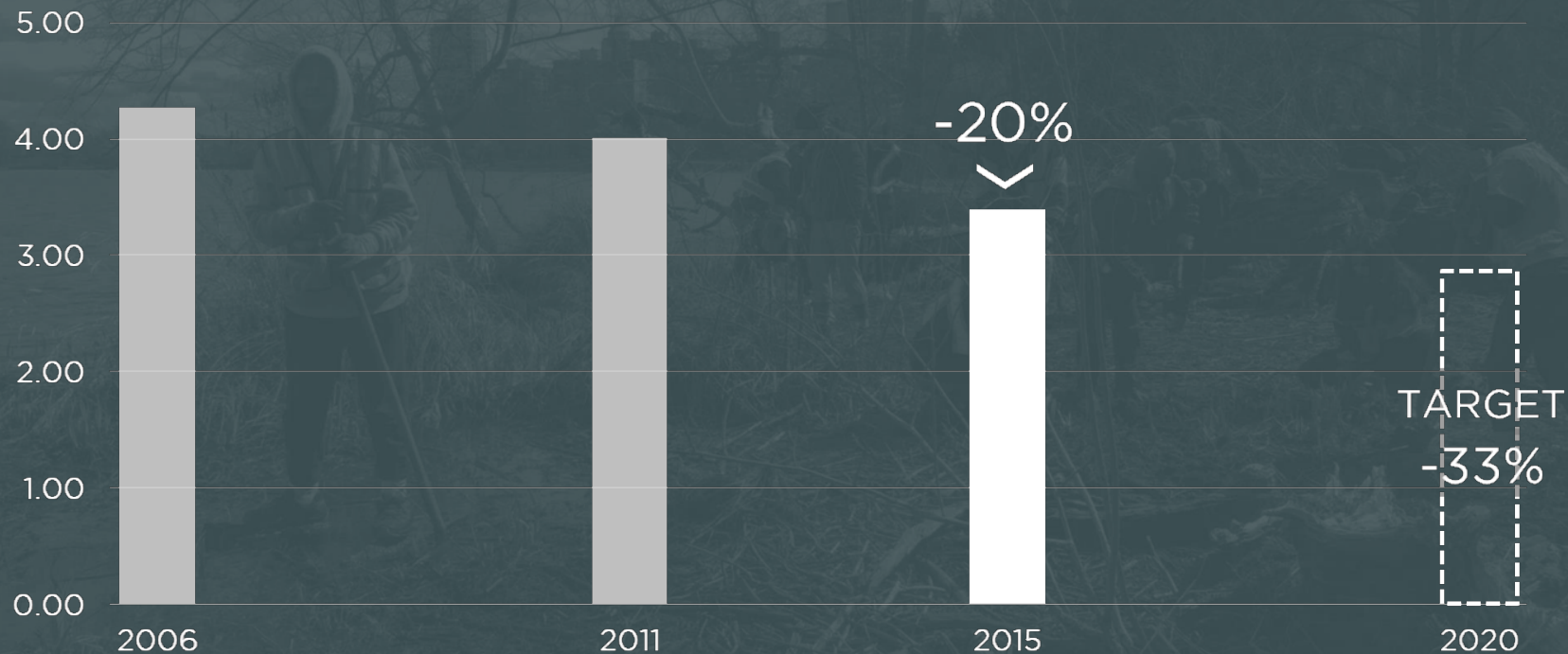
From smart parking
to circadian-rhythm
lighting



LIGHTER FOOTPRINT

Per-capita ecological footprint

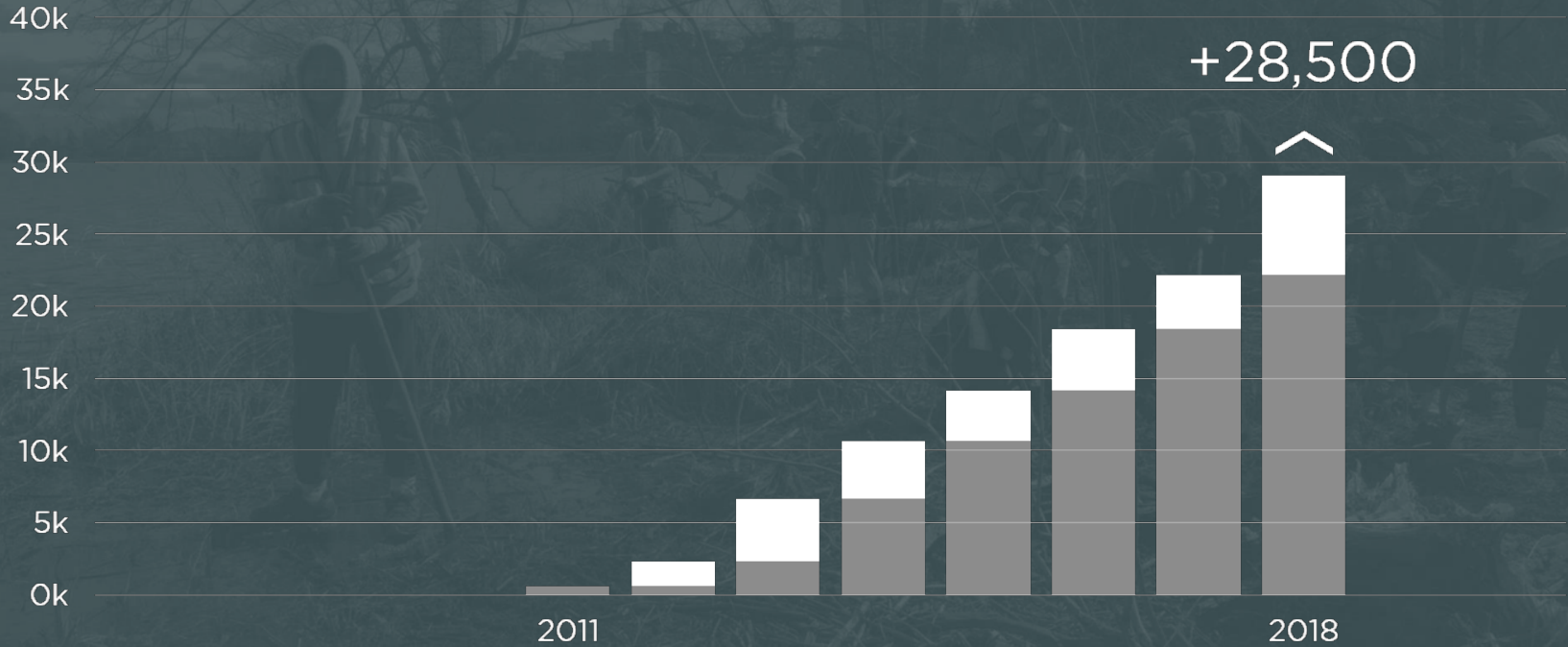
2015: 3.40 gha/person



People empowered to support Greenest City

2018: 29,100 people

+28,500





C40 #WOMEN4CLIMATE
MENTORSHIP PROGRAM

HIGHLIGHTS

#WOMEN4CLIMATE PROGRAM

Mentoring 10 emerging women climate leaders

GREENEST CITY GRANTS

From DTES beekeeping to walking route apps

REPAIR: THE FUTURE OF RECYCLING

Volunteers teach skills at Repair Workshops



GREEN OPERATIONS

CITY OPERATIONS PROGRESS

GHGs

-56%

waste diversion

85%

public-
facing

90%

other
City-owned

water use

-10%

2020 TARGETS ACHIEVED

CITY OPERATIONS HIGHLIGHTS

LOWER-CARBON ASPHALT

Recycled content,
soya wax, plastic bags

VPD ♥ ELECTRIC VEHICLES

EVs at VPD HQ
in demand

GREEN FLEETS

65% renewable diesel
use as of May 2019

BOLD DECISIONS NEEDED TO STAY WITHIN 1.5°C

Staff working to identify
challenges and solutions

CLIMATE IMPACTS ALREADY BEING FELT

Adapting to wildfire seasons,
flooding, sea level rise

AFFORDABILITY

Residential, commercial squeeze

SHIFTING CULTURE OF CONSUMPTION

Food waste, single-use plastics,
embodied carbon

COASTAL ADAPTATION PLAN - FRASER RIVER FORESHORE

Build shared understanding:
flood hazard, sea level rise,
community values,
design principles

SEA2CITY COASTAL DESIGN CHALLENGE

Attract diverse thinkers:
engage on False Creek and
Fraser River design options
(CityPlan integration)

**CLIMATE EMERGENCY
= FOUNDATION**

Big Moves serve as
basis for work
beyond 2020 and
City Plan
Integration

**ANNUAL
REPORTING**

streamlined climate
mitigation, adaptation,
carbon budgeting

**FALL 2020
REPORT-BACK**

5-year action plans
to reach
2030 targets

AWARDS

PLANNING INSTITUTE OF BC – GOLD AWARD

Coastal Adaptation
Plan: Fraser River
Foreshore

CANADIAN EARTH HOUR CAPITAL

WWF One Planet
City Challenge

GREEN SHORES FOR COASTAL DEVELOPMENT

New Brighton Park
Shoreline Habitat
Restoration

FIRST IN NORTH AMERICA Mercer Quality of Living Survey

SUCCESSES

hectares
restored/
enhanced

+27_{ha}

mode
share

53%

per-capita
vehicle km
driven

-38%

community
GHGs

-12%

per-capita
water use

-22%

waste to
landfill and
incinerator

-28%

2020 TARGETS ACHIEVED



QUESTIONS