



CITY OF CAPE TOWN
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STAD KAAPSTAD

Making progress possible. Together.

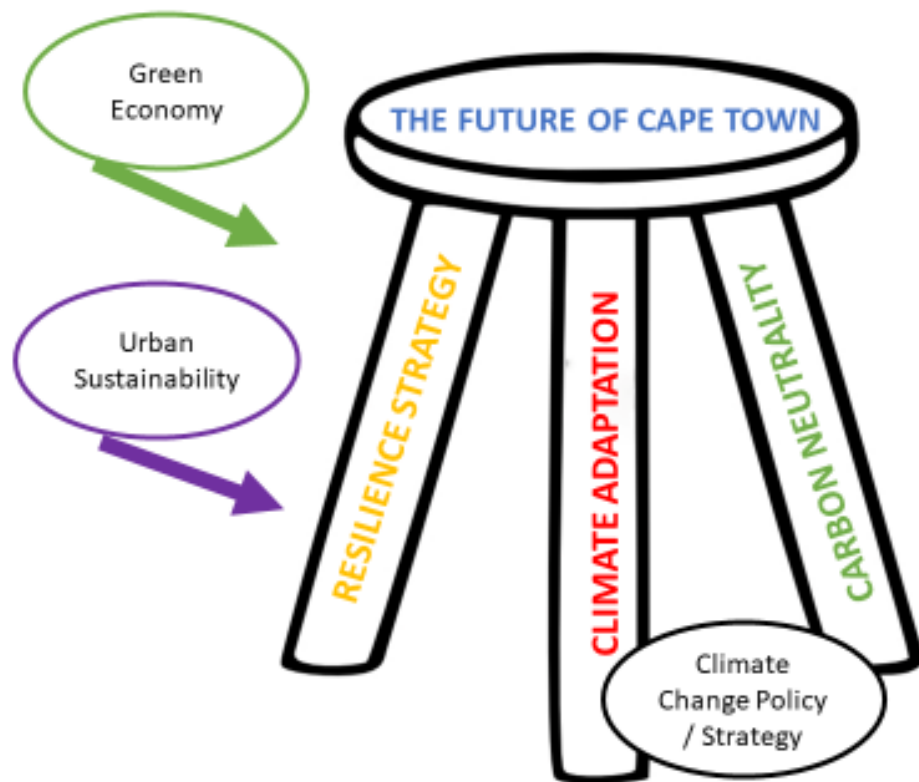
TRANSFORMING THE CITY THROUGH CLIMATE SMART DEVELOPMENT

LESLEY SIBANDA

Public Information session on the C40
Reinventing Cities Competition

CAPE TOWN'S LOWER CARBON JOURNEY





RESILIENCE STRATEGY	<ul style="list-style-type: none"> • Understanding the full range of potential shocks and stressors • Innovative solutions to future shocks and stresses
CLIMATE ADAPTATION	<ul style="list-style-type: none"> • Understanding impact of potential climate hazards and vulnerability • Protecting vulnerable citizens & build adaptive capacity • Build resilient infrastructure • Restore ecosystem services
CARBON NEUTRALITY	<ul style="list-style-type: none"> • Clean energy & transport; energy efficient buildings • Urban Transition & Desired Future • Green Jobs • Global Responsibility • Resource efficiency • Circular economy

CARBON NEUTRAL CITY-WIDE 2050...



Paris Agreement Compatible Climate Action Plan

BENEFITS

**BETTER JOBS
AND
GREEN JOBS**



**HEALTHIER
LIVES,
LIVES SAVED**



CLEAN AIR



**INCREASED
ACCESS**



**PRO-POOR
INVESTMENTS**



**SAFE AND
CHEAPER
ENERGY**

COMPONENTS



MITIGATION

Develop pathway to deliver emissions neutrality by 2050 and set an ambitious interim target.



ADAPTATION

Improve city resilience now and in future climate change scenarios.



INCLUSIVITY

Detail social, environmental and economic benefits and improve equitable distribution.



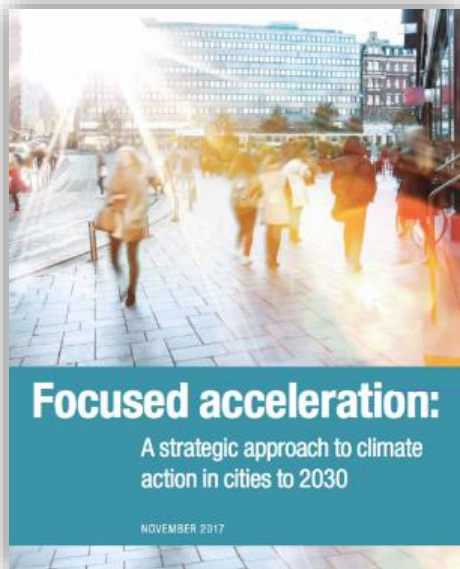
DELIVERY

Outline governance, powers and partners needed to accelerate delivery.



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How do we do it?

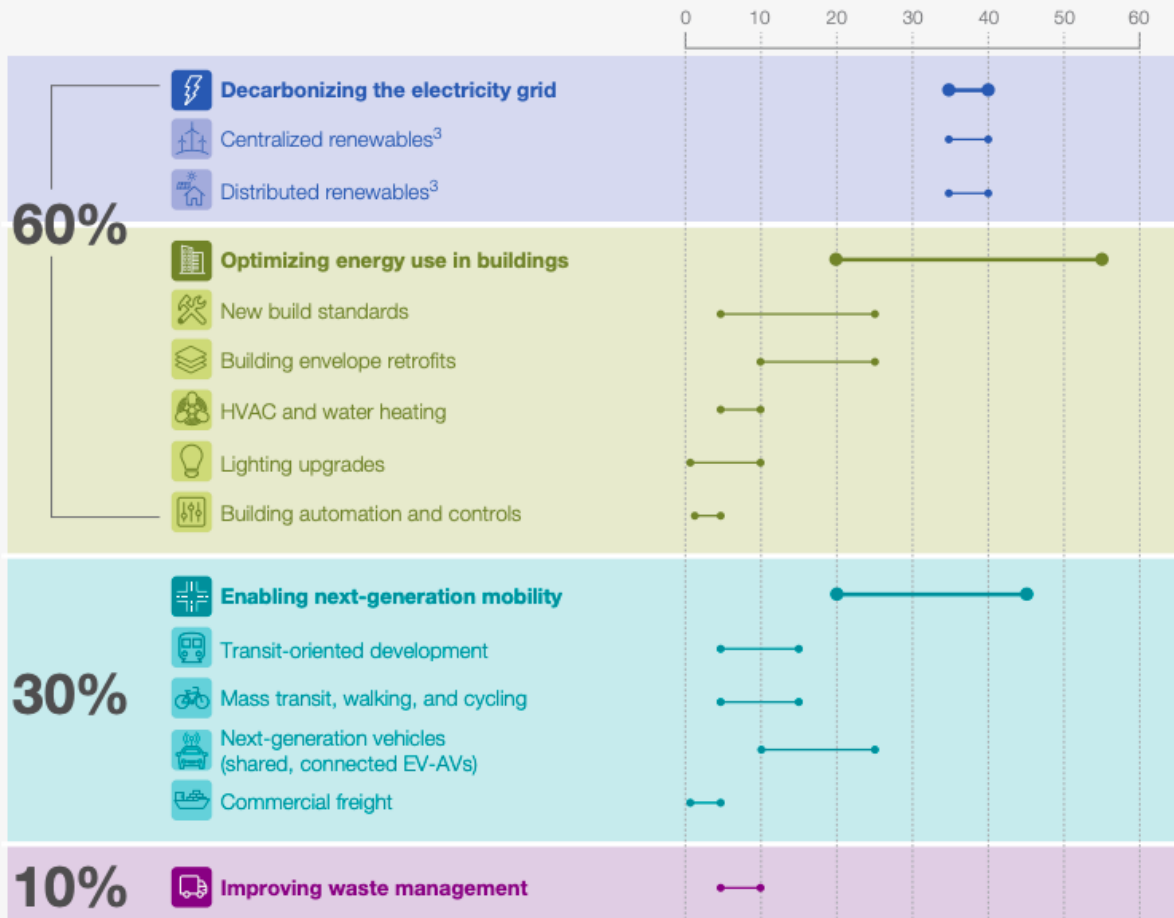


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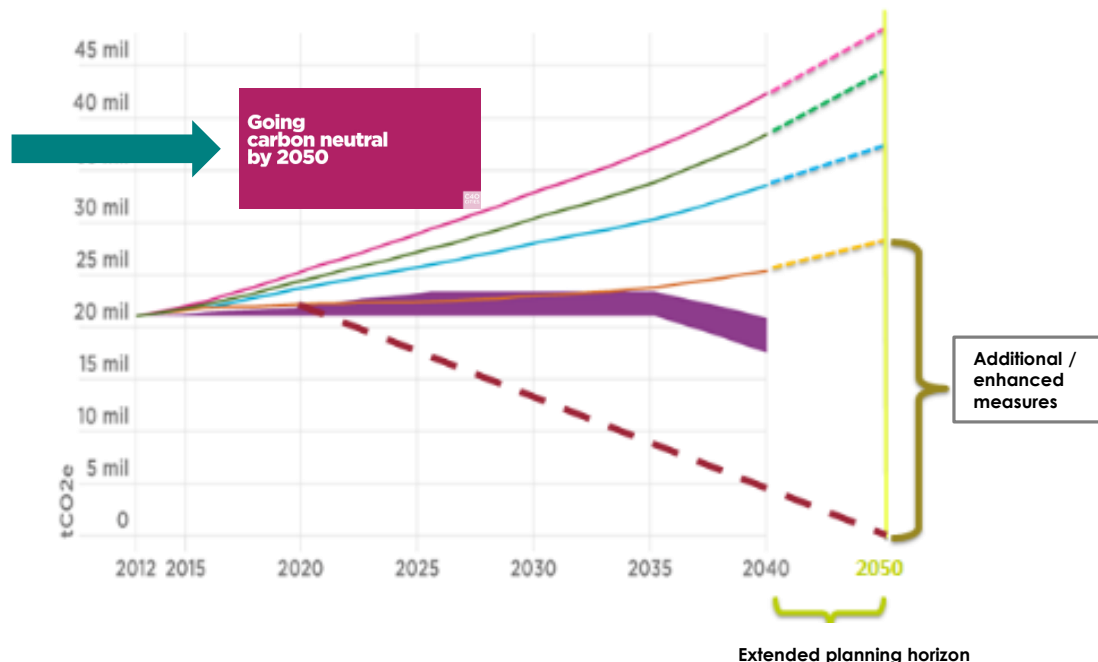
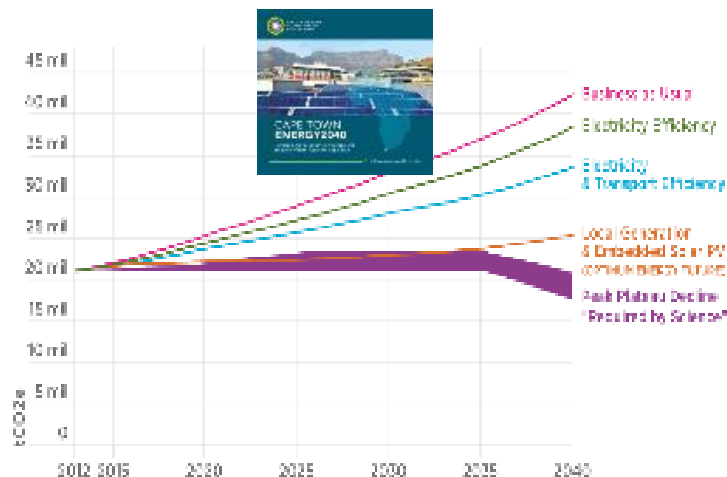
Approximate
share of C40
cities emissions

Opportunity

Average range of 2030 emissions reduction
potential across city types,¹ % of 2030 target²



Shifting gears: from Energy2040 to Carbon Neutral 2050



This ambitious target requires a **pathway** and **action plan** by **2020**



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CARBON NEUTRAL 2050



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CARBON NEUTRAL NEW BUILD 2030



BACKGROUND



To accelerate the development and implementation of transformational energy efficiency policies and programmes for new buildings in South African cities by **2020**

SOUTH AFRICA TAKES A SEAT AT THE TABLE

Net Zero Carbon Buildings Declaration

(first public announcement August 2018):

ensuring that new buildings operate at **net zero carbon by 2030**; additionally pledged to ensure all buildings in the cities, old or new, will meet **net-zero carbon standards by 2050**.



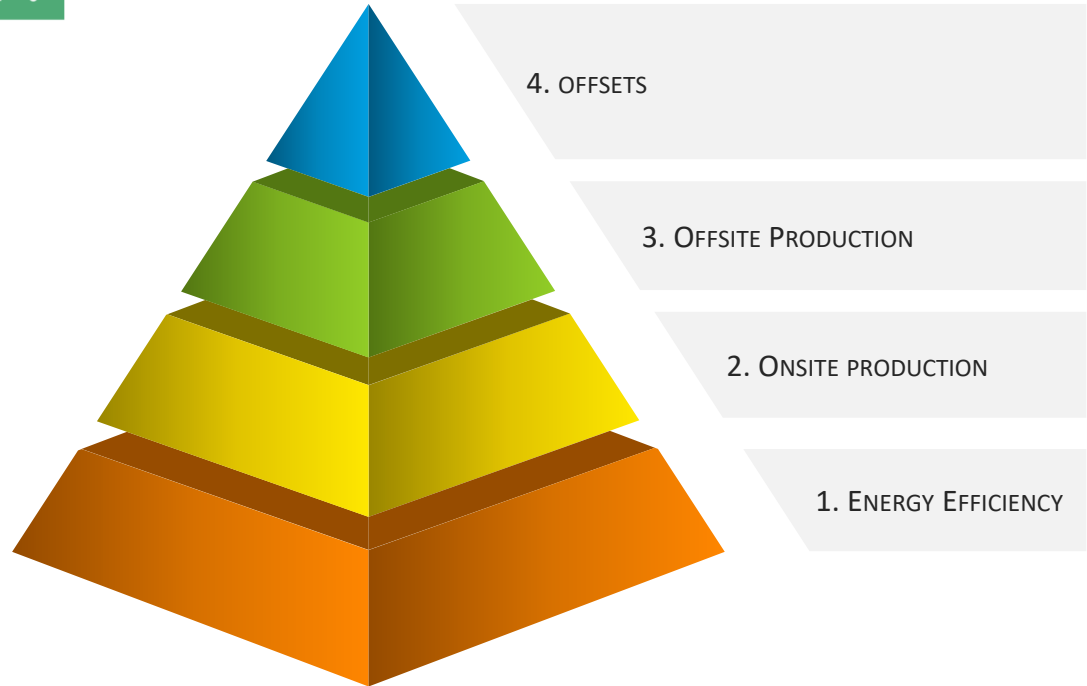
SAN FRANCISCO SAN JOSE PORTLAND
PARIS TOKYO
COPENHAGEN NEW YORK
TSHWANE C40 CITIES CITY
LONDON TORONTO
VANCOUVER & WASHINGTON D.C.
SANTA MONICA MONTREAL
LOS ANGELES JOHANNESBURG
STOCKHOLM NEWBURYPORT
SYDNEY CAPE TOWN

Chapter 5 objective:
Zero emission building standards by 2030

WHAT IS 'NET ZERO CARBON'?

“A HIGHLY ENERGY EFFICIENT BUILDING WITH ALL REMAINING OPERATIONAL ENERGY USE FROM RENEWABLE ENERGY, PREFERABLY ON-SITE BUT ALSO OFF-SITE PRODUCTION, TO ACHIEVE NET ZERO CARBON EMISSION ANNUALLY IN OPERATION”.

World Green Building Council



SUPPORTING NATIONAL GOALS

NATIONAL
CLIMATE CHANGE
RESPONSE WHITE
PAPER (2011)

DPW GREEN
BUILDING
FRAMEWORK
(2011)

NATIONAL
ENERGY
EFFICIENCY
STRATEGY (2012)

NATIONAL
DEVELOPMENT
PLAN (2012)

THE PUBLIC
WORKS GREEN
BUILDING POLICY
(2018)

INTEGRATED
RESOURCE PLAN
(2018)



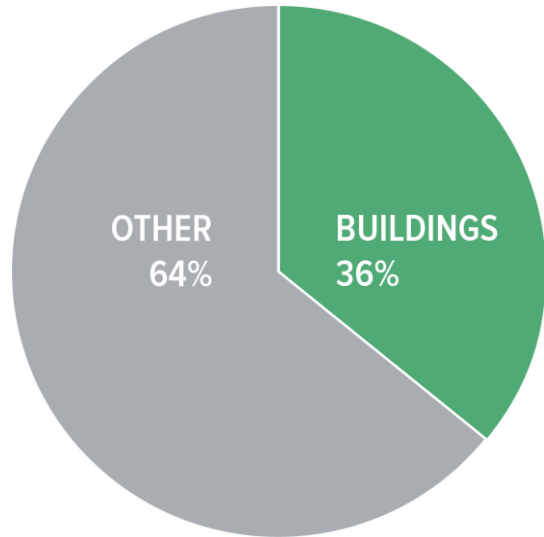
BUILDINGS ARE KEY

C40
CITIES

CLIMATE LEADERSHIP GROUP

BUILDINGS ARE KEY

A RAPIDLY-INCREASING AND URBANISING POPULATION
MEANS THAT SOUTH AFRICAN CITIES ARE ONLY 'HALF-FORMED'.

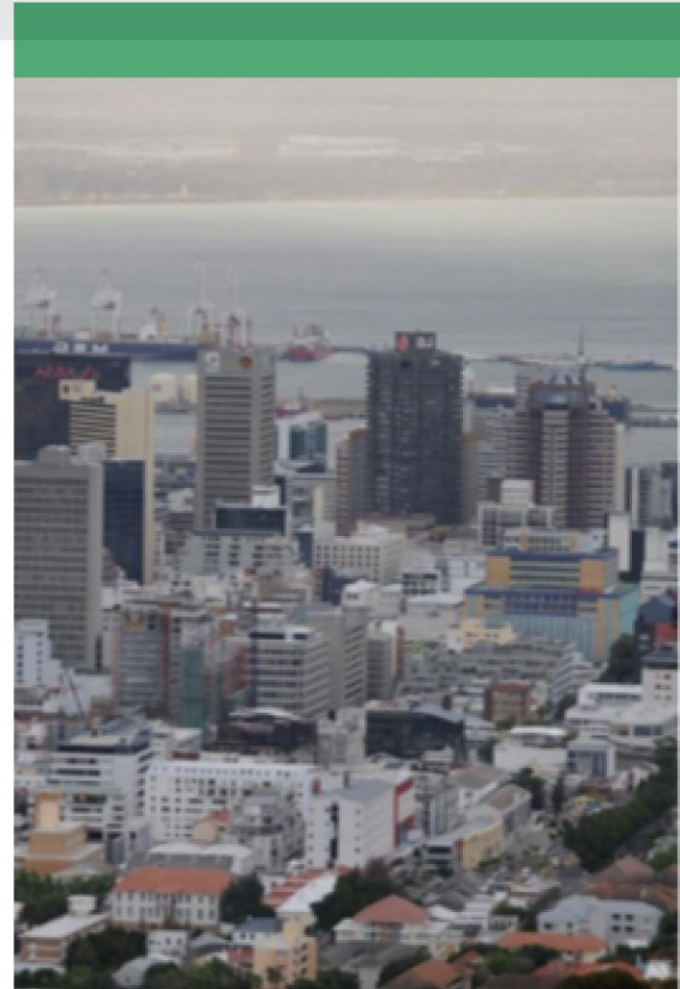
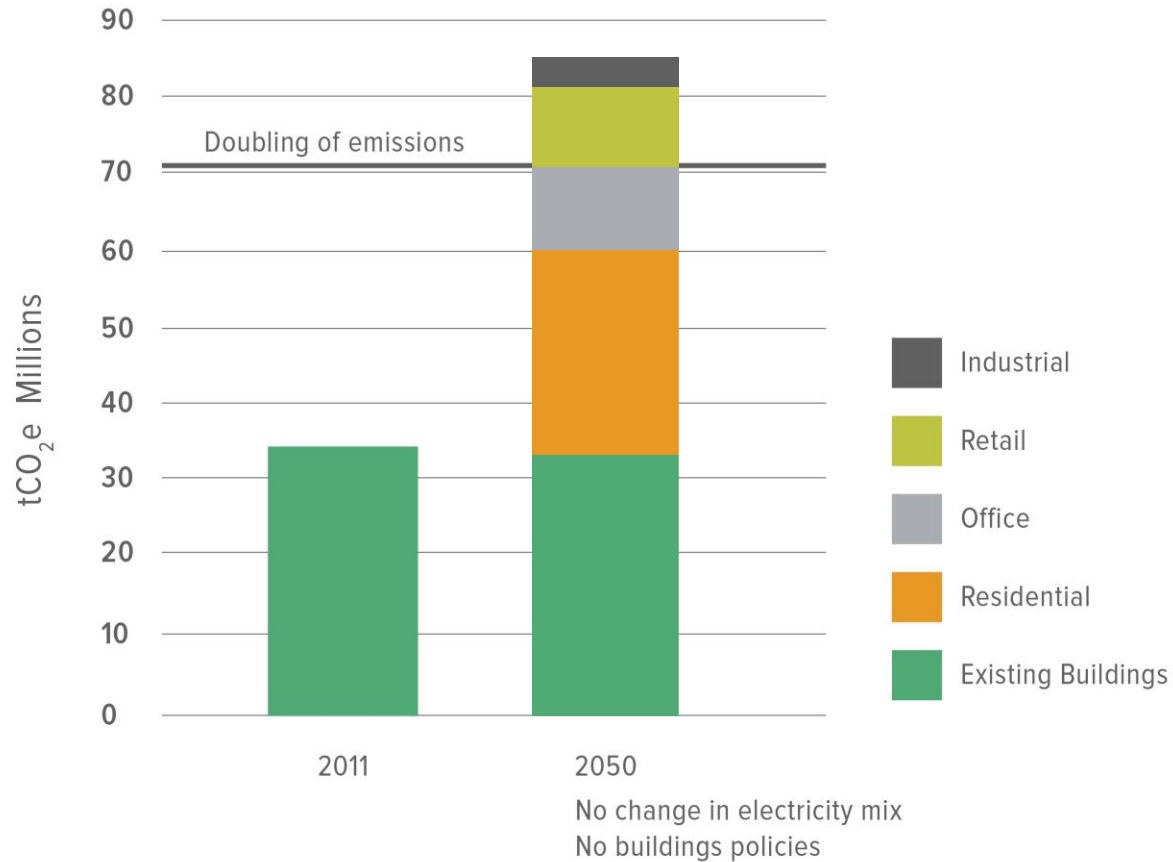


AVERAGE GREEN HOUSE GAS EMISSIONS
OF A SOUTH AFRICAN METRO

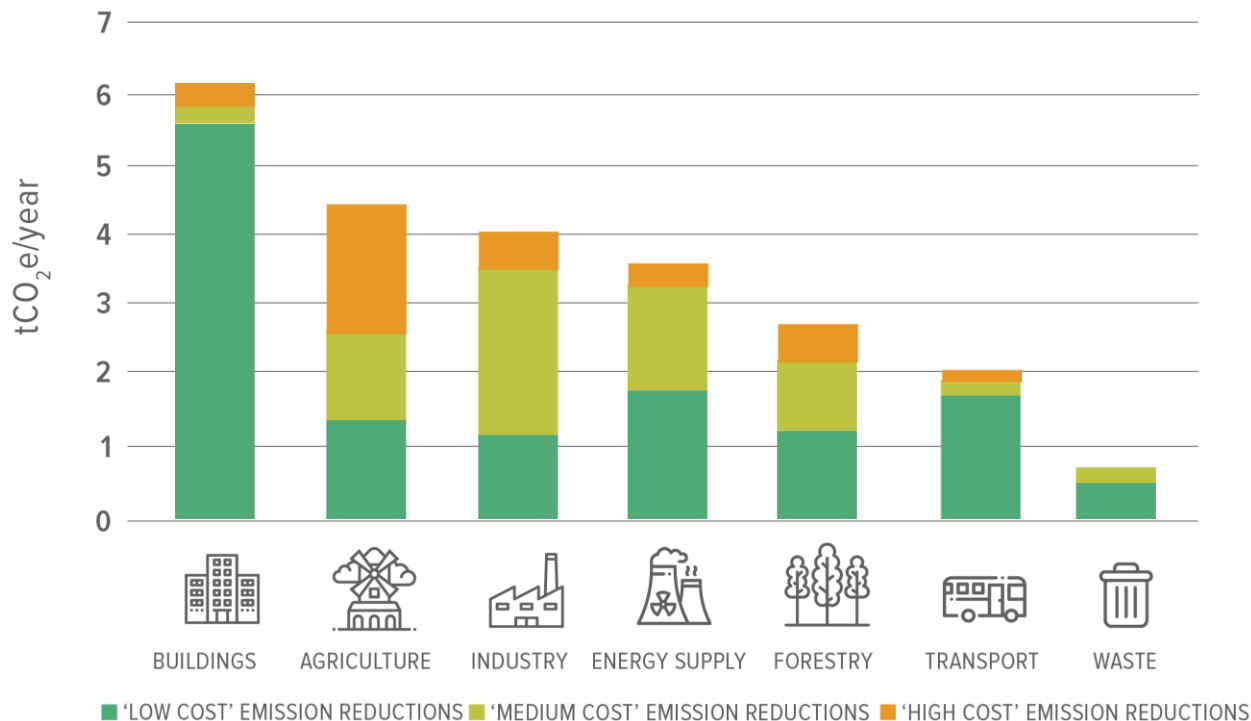


THE COST OF INACTION

BUILDINGS EMISSIONS



BUILDING EFFICIENCY IS ONE OF THE MOST AFFORDABLE WAYS TO CUT EMISSIONS



Actions required to achieve NZC buildings

Building efficiency
codes & standards

01

Efficiency goals &
improvement targets

02

Performance Information
& benchmarking

03

Government leadership
by example

04

Incentives & finances

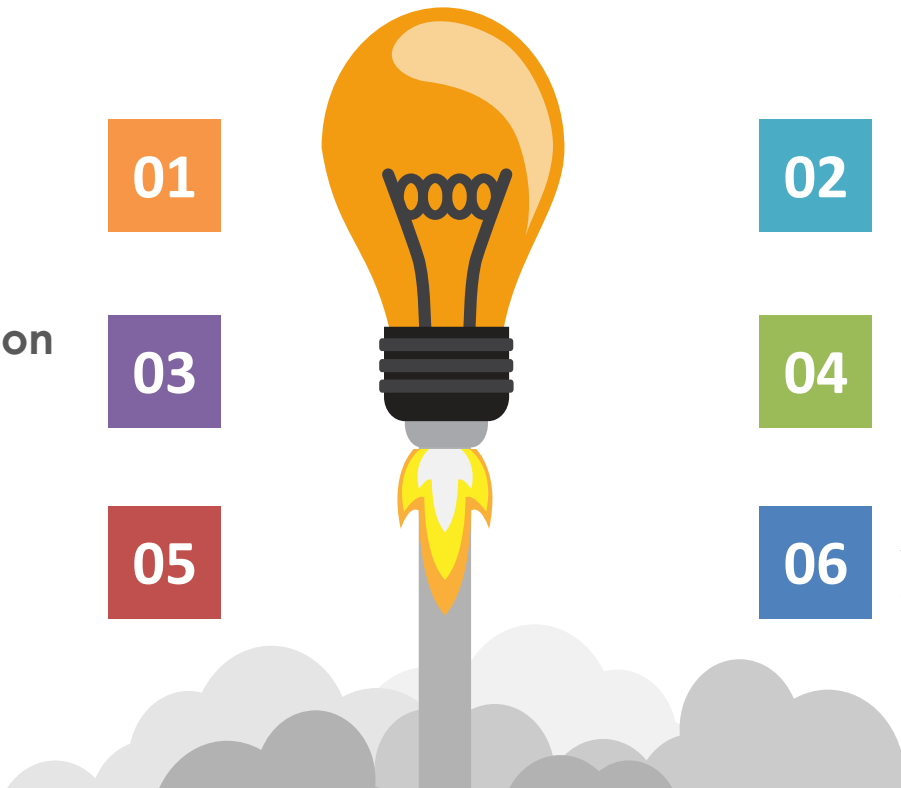
05

Stakeholder engagement
and advocacy

06



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Thank You

Making progress possible. Together.