

While Nations Talk, Cities Act

David Miller

Canadian Association for the Club of Rome

February 9, 2022

Solved

HOW THE WORLD'S
GREAT CITIES
ARE FIXING
THE CLIMATE CRISIS

David Miller

FOREWORD BY BILL MCKIBBEN

Recent events have shown the immense impact of climate hazards and the need to act now

BBC NEWS

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Science

Climate change: IPCC report is 'code red for humanity'

By Matt McGrath
Environment correspondent

9 August | Comments

COP26

THE LOCAL de

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After flood catastrophe: Germany experiences wettest summer in 10 years

DPA/The Local
news@thelocal.de
@thelocalgermany
31 August 2021
10:57 CEST

Weather

Share this article



AP

Hurricane Ida lashes Louisiana, knocks out New Orleans power

By REBECCA SANTANA, KEVIN MCGILL and JANET MCCONNAUGHEY August 30, 2021



ALJAZEERA

Madagascar on the brink of first climate-induced famine, UN warns

A four-year drought has pushed at least 30,000 people in southern Madagascar to level five of famine, the UN warned.



World Africa Americas Asia Australia China Europe India Middle East United Kingdom

This summer was Europe's hottest on record as Mediterranean heat soared

By Angela Dewan, International Climate Editor
Updated 7:41 AM ET, Tue September 7, 2021



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Live Now: Watch the 76th UN General Assembly Debate

UN weather agency: millions affected by climate change and extreme weather in Latin America and Caribbean



npr WNYC

Weather Disasters Have Become 5 Times As Common, Thanks In Part To Climate Change


September 7, 2021 - 2:10 PM ET

ERIC MCDANIEL



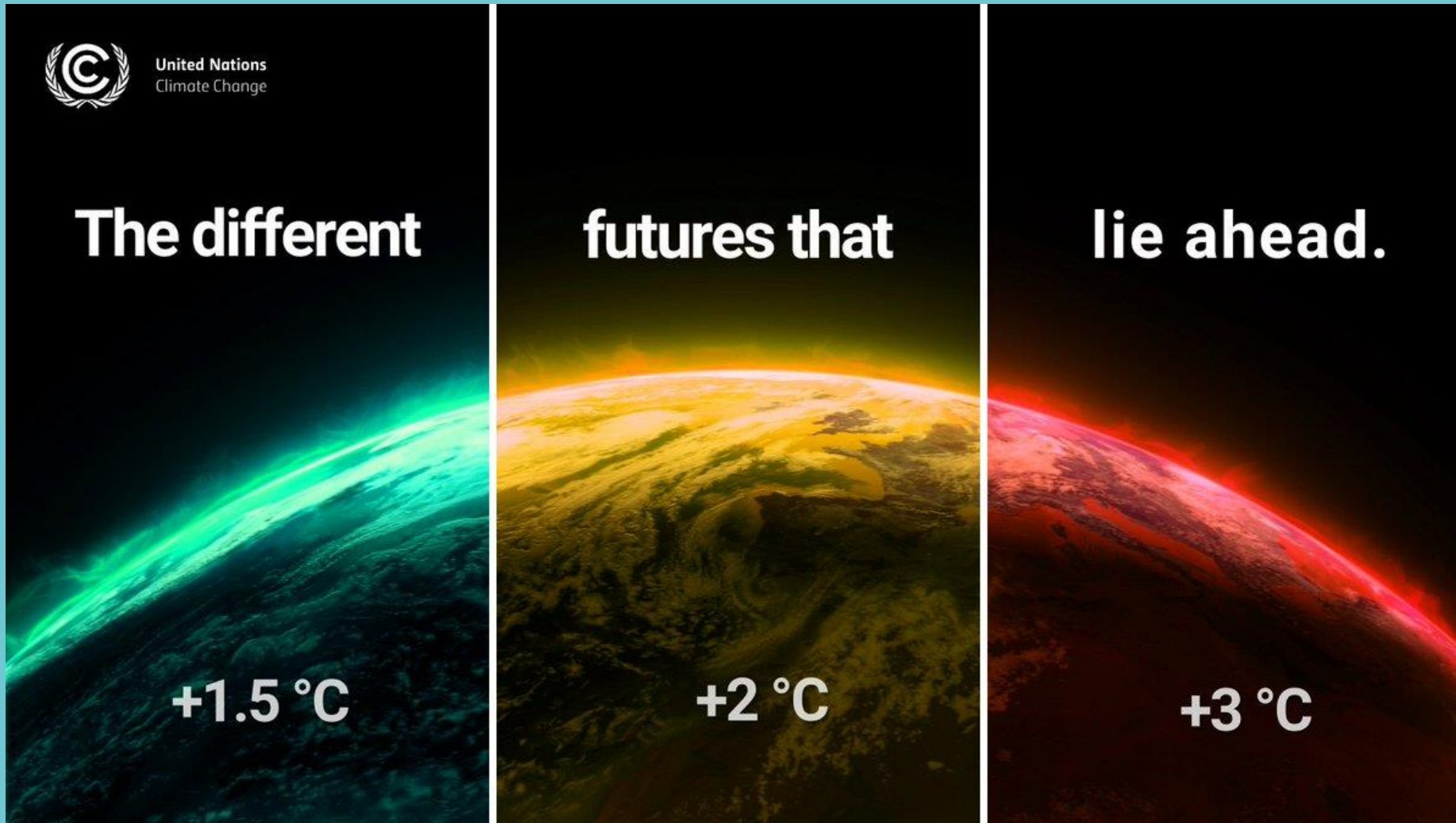


Climate change is affecting us all

An aerial photograph of a rural landscape. A dirt road or path runs diagonally across the frame, separating green fields. In the background, there are rolling hills and a dense forest of evergreen trees. The sky is a hazy, warm orange color, suggesting a sunrise or sunset. The overall atmosphere is misty and serene.

In 2021, British Columbia experienced its worst wildfire season since the record-shattering devastating season in 2018

The science is clear: to avoid catastrophic climate change we need to keep global average temperature rise to 1.5°C

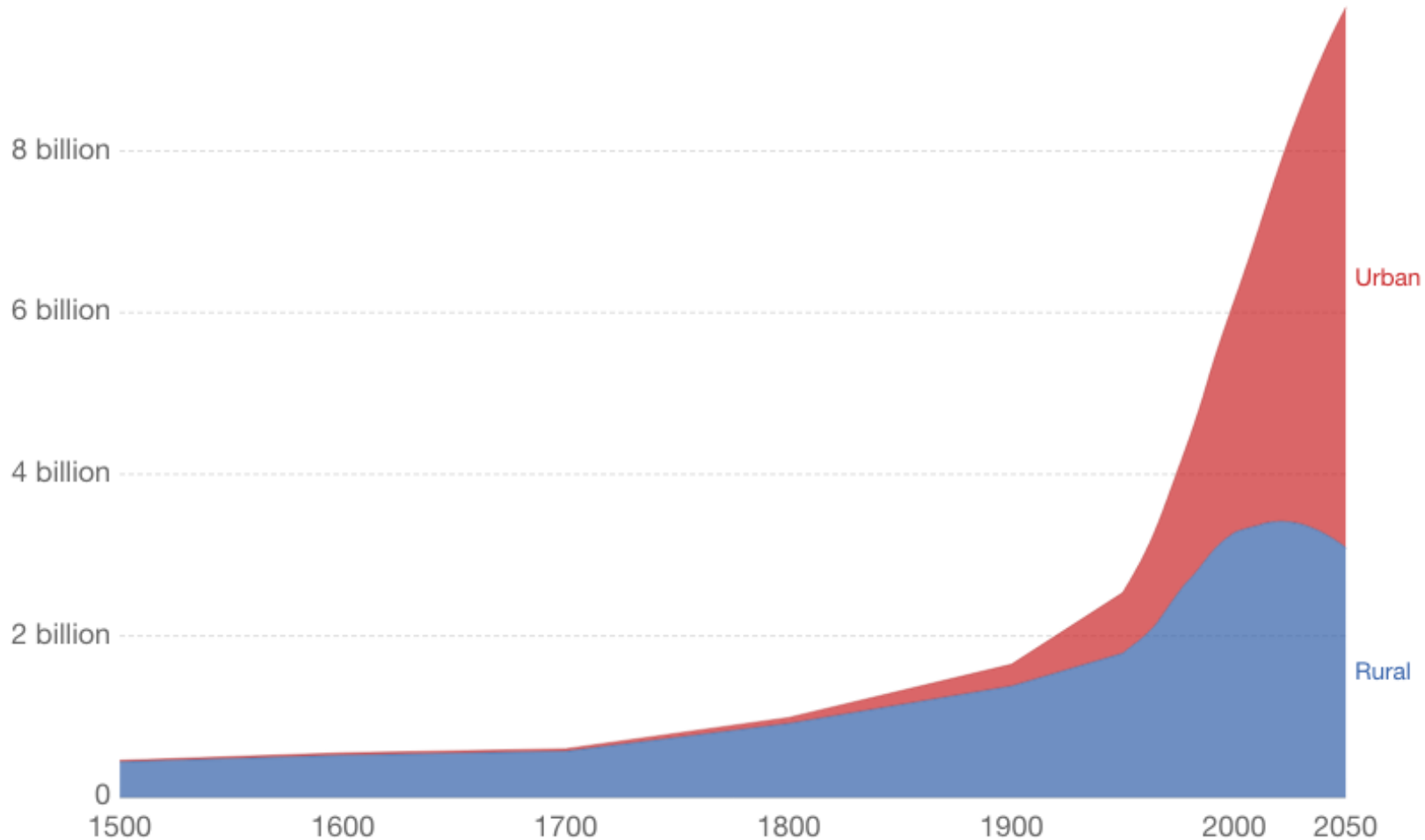


Importance of urban climate action: Over half of the world's population now lives in cities

Urban and rural population projected to 2050, World

Total urban and rural population, given as estimates to 2016, and UN projections to 2050. Projections are based on the UN World Urbanization Prospects and its median fertility scenario.

Our World
in Data



Source: OWID based on UN World Urbanization Prospects 2018 and historical sources (see Sources)

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Cities: Global and Powerful

55%

Global population



80%

Global GDP
generated in cites



70%

Global CO2
emissions



2/3

Global energy
consumed



90%

Urban expansion in
developing countries near
hazard-prone areas



The C40 Cities Network

C40
CITIES

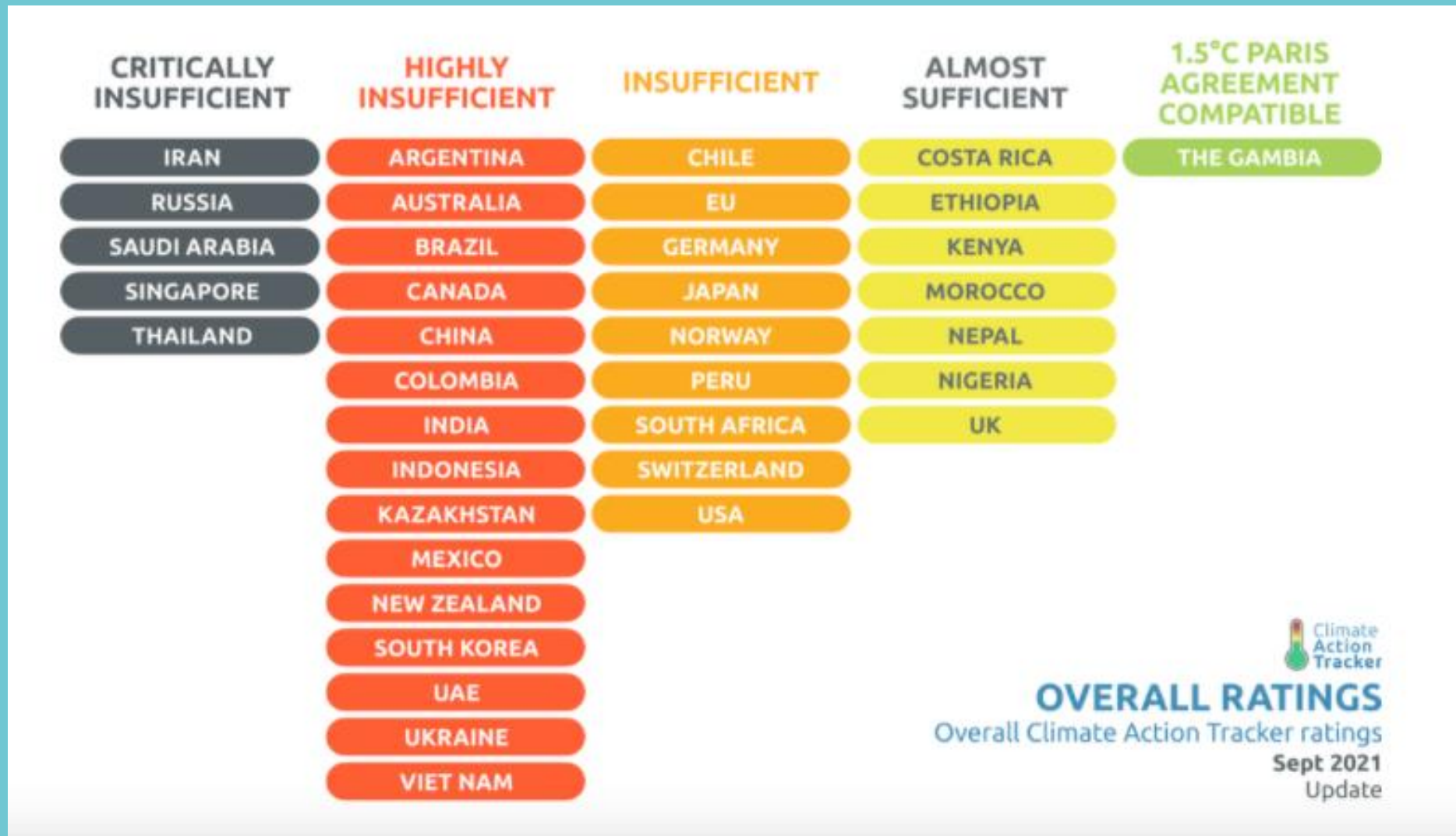


AFRICA: ABIDJAN – ACCRA – ADDIS ABABA – CAPE TOWN – DAKAR – DAR ES SALAAM – DURBAN (ETHEKWINI) – EKURHULENI – FREETOWN – JOHANNESBURG – LAGOS – NAIROBI – TSHWANE | **CENTRAL EAST ASIA:** BEIJING – CHENGDU – DALIAN – FUZHOU – GUANGZHOU – HANGZHOU – HONG KONG – NANJING – SHANGHAI – SHENZHEN – QINGDAO – WUHAN – ZHENDIANG | **EAST, SOUTHEAST ASIA & OCEANIA:** AUCKLAND – BANGKOK – HANOI – HO CHI MINH CITY – JAKARTA – KUALA LUMPUR – MELBOURNE – QUEZON CITY – SEOUL – SINGAPORE – SYDNEY – TOKYO – YOKOHAMA | **EUROPE:** AMSTERDAM – ATHENS – BARCELONA – BERLIN – COPENHAGEN – HEIDELBERG – ISTANBUL – LISBON – LONDON – MADRID – MILAN – MOSCOW – OSLO – PARIS – ROME – ROTTERDAM – STOCKHOLM – TEL AVIV – VENICE – WARSAW | **LATIN AMERICA:** BOGOTÁ – BUENOS AIRES – CURITIBA – GUADALAJARA – LIMA – MEDELLÍN – MEXICO CITY – RIO DE JANEIRO – SALVADOR – SÃO PAULO – SANTIAGO – QUITO | **NORTH AMERICA:** AUSTIN – BOSTON – CHICAGO – HOUSTON – LOS ANGELES – MIAMI – MONTRÉAL – NEW ORLEANS – NEW YORK – PHILADELPHIA – PHOENIX – PORTLAND – SAN FRANCISCO – SEATTLE – TORONTO – VANCOUVER – WASHINGTON DC | **SOUTH & WEST ASIA:** AMMAN – BENGALURU – CHENNAI – DELHI – DHAKA – DUBAI – KARACHI – KOLKATA – MUMBAI

Mayors are demonstrating leadership in the fight against climate breakdown



In the context of national government inaction



OVERALL RATINGS

Overall Climate Action Tracker ratings
Sept 2021
Update

A photograph of a building facade with a large pink grid pattern and the text 'PEOPLE MAKE GLASGOW'. The building is a multi-story structure with a concrete upper section and a lower section with a grid of pink panels. The text 'PEOPLE MAKE GLASGOW' is written in large white letters across the pink grid. In the foreground, there is a glass and metal structure, possibly a walkway or part of another building. To the right, there are older buildings with dark roofs and dormer windows. The sky is a clear, bright blue.

**COP26: Our last
best chance to avert
a climate crisis**

Countries brought big promises to COP26. Cities brought actions.

Forbes

BREAKING | Nov 9, 2021, 12:34pm EST | 1,085 views

Researchers Predict Dire 2.4 Degree Temperature Rise—Even With Climate Pledges

F Téa Kvetenadze Forbes Staff
Business
I'm a New York-based reporter covering

ALJAZEERA News Climate Crisis Features Economy Opinion Vid

News | Climate Crisis

China and US announce deal to boost cooperation on climate change

The two biggest carbon polluters announce enhanced efforts to combat climate change with 'concrete actions'.



REUTERS

World

Nations make new pledges to cut methane, save forests at climate summit

By Jake Spring and Jeff Mason

FINANCIAL TIMES

Climate Capital COP26 + Add to myFT

India steps forward with new climate pledge at COP26

Leaders warn of consequences of failing to strike deals as Queen urges them to 'answer call of future generations'



The New York Times

Global Leaders Pledge to End Deforestation by 2030

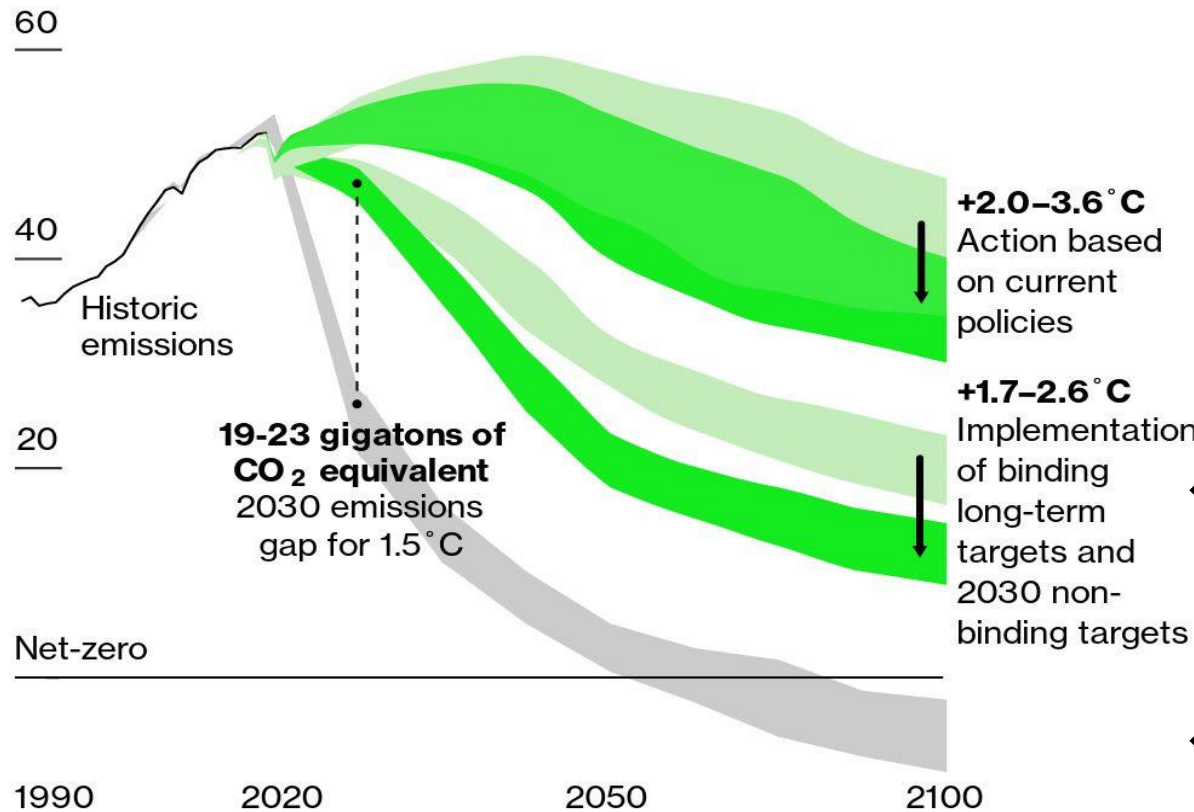
The landmark agreement reflects a growing recognition of nature's role in helping to address global warming. Still, critics said it wasn't ambitious enough.

New pledges and targets made at COP26 are woefully inadequate. The science is clear, we're running out of time.

Impact of COP26 on Emissions Pathways

New targets could reduce emissions by 2100 in line with 1.7–2.6° C warming

Low and high projections ■ May ■ November ■ Below 1.5° C



Trajectory if all short and long-term targets are implemented

1.5° C emissions reduction pathway that science demands

Note: November 2021 update
Source: Climate Action Tracker

Bloomberg

COP26: Cities Act on Climate While Nations Delay



1049 cities and local governments joined the Cities Race to Zero



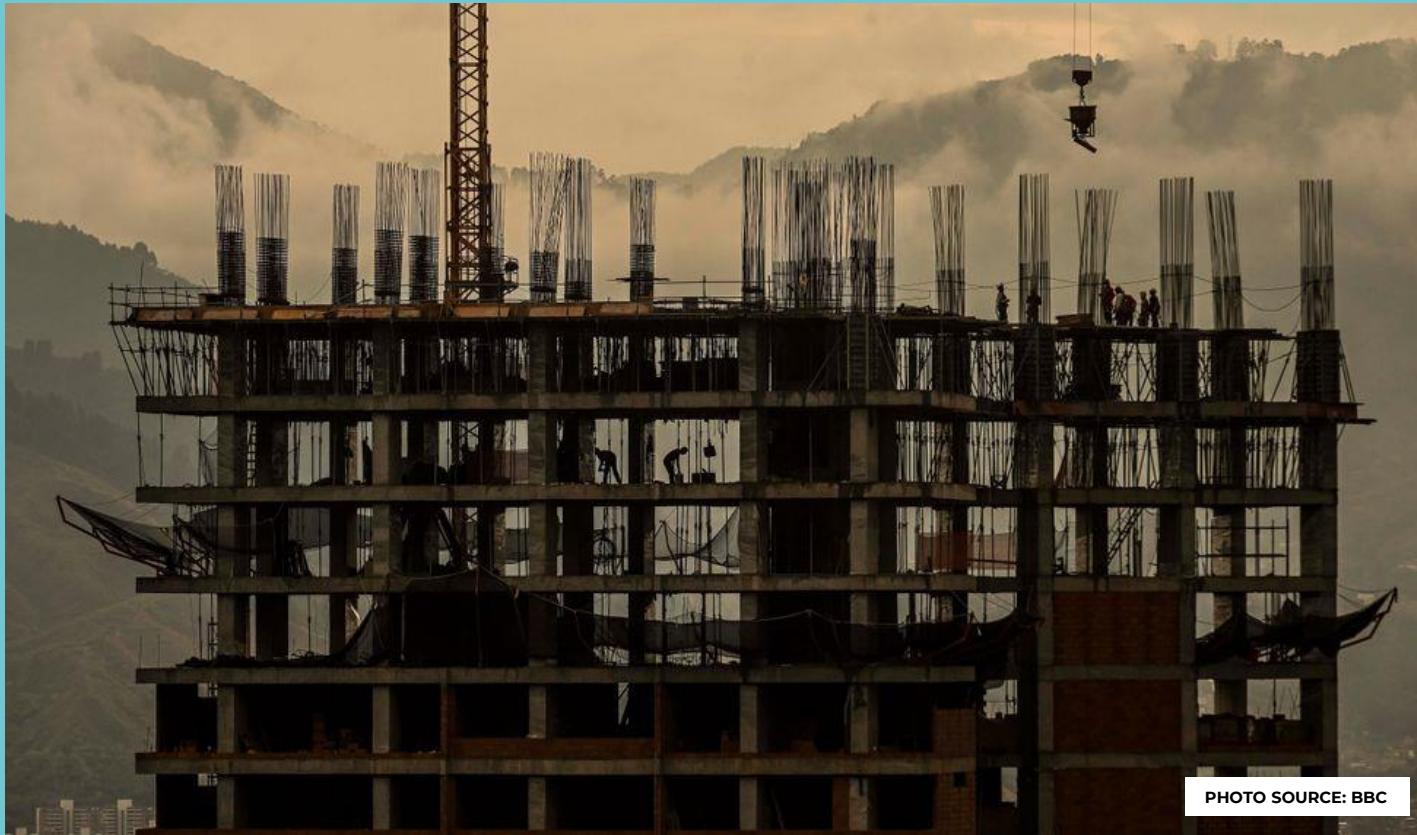
An unprecedented coalition of cities committed to **limiting global temperature rise to 1.5°C** and implementing **inclusive and resilient climate action.**

New \$1 billion dollar commitment from investors to deliver zero-emission buses in Latin America



A coalition of international investors signed a commitment with C40's Zero Emissions Bus Rapid Accelerator to invest more than **\$1 billion U.S. dollars in zero-emission public bus fleets in Latin America.**

**C40 launched a new coalition of cities and construction sector companies
Committed to tackling emissions from the global construction sector.**



The new Clean Construction Action Coalition targets a crucial but fragmented sector representing almost a quarter (23%) of global GHG emissions and consuming over half of all extracted global resources.

Only joint actions from cities, industry and workers will halve emissions from the global built environment sector by 2030 to limit global warming to 1.5 degrees.

World's first **transpacific green shipping** corridor between ports in the United States and China announced by C40 Cities, the Port of Los Angeles and the Port of Shanghai



PHOTO PORT OF LOS ANAGELES

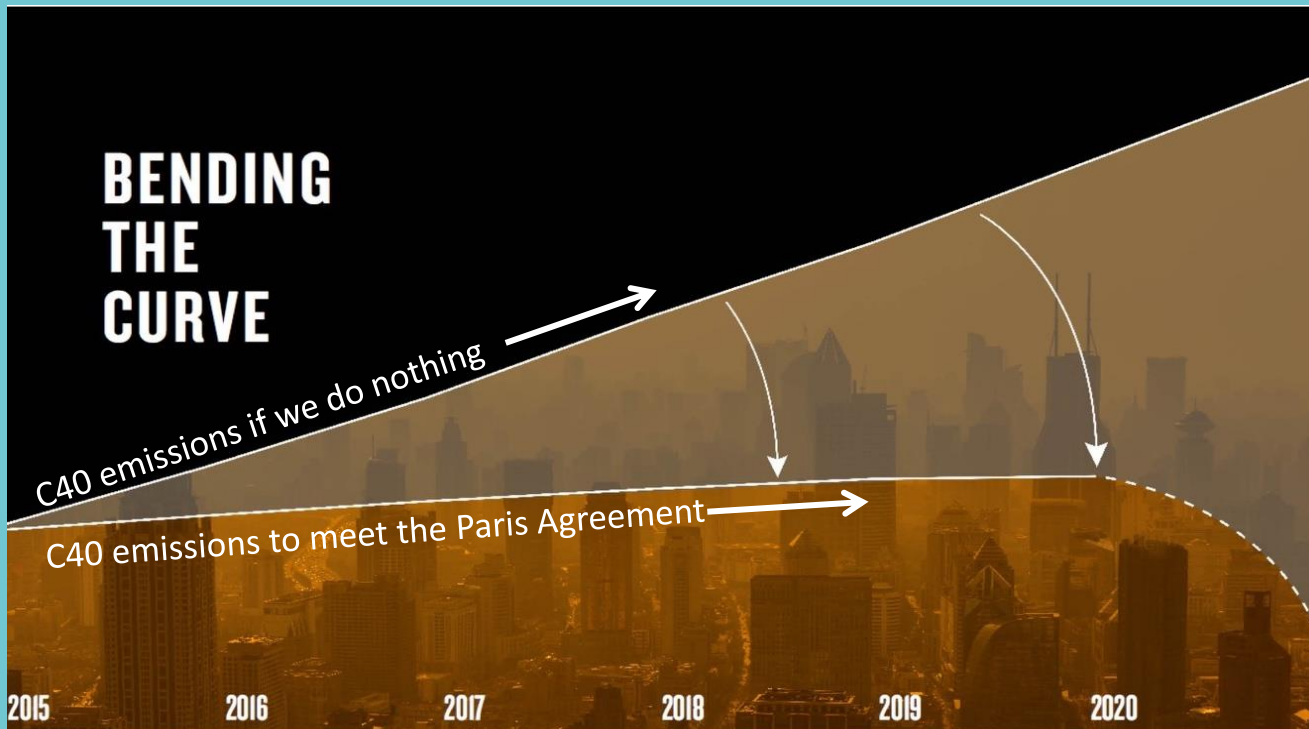
Key goals of the partnership include:

- The phasing in of **low, ultra-low, and zero-carbon fueled ships** through the 2020s
- The development of **best management practices** to help reduce emissions and improve efficiency
- **Reducing supply chain emissions** from port operations

Deadline 2020: A pathway to 1.5°C

Deadline 2020 is the first pathway to achieve the goals of the Paris Agreement.

It determines that C40 cities need to peak emissions in 2020, halve emissions by 2030 and reach net zero by 2050.

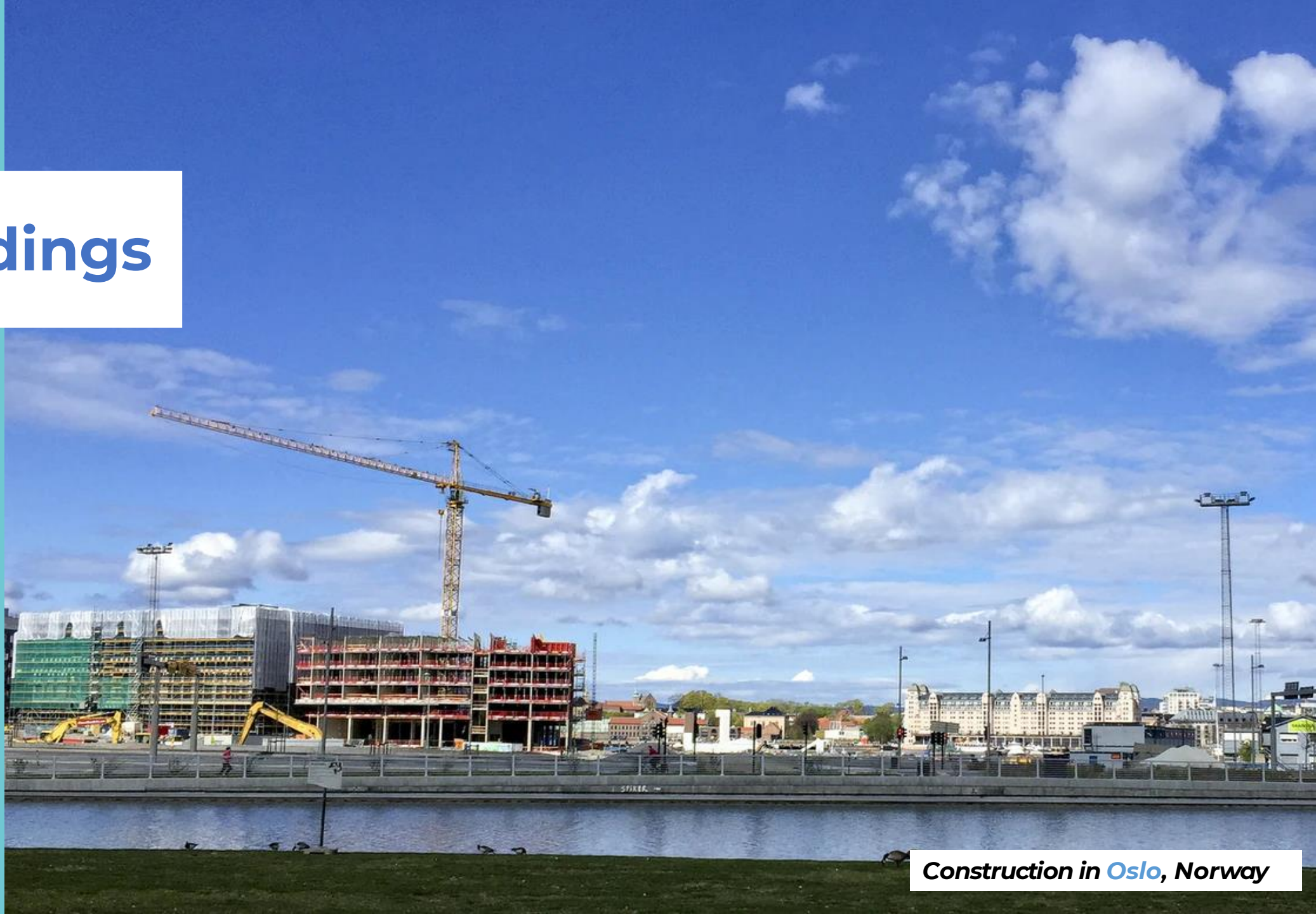


Energy



WindShare ExPlan turbine in Toronto, Canada

Buildings



Construction in [Oslo](#), Norway



Waste

Recycling facility in [San Francisco, California](#)

Transportation

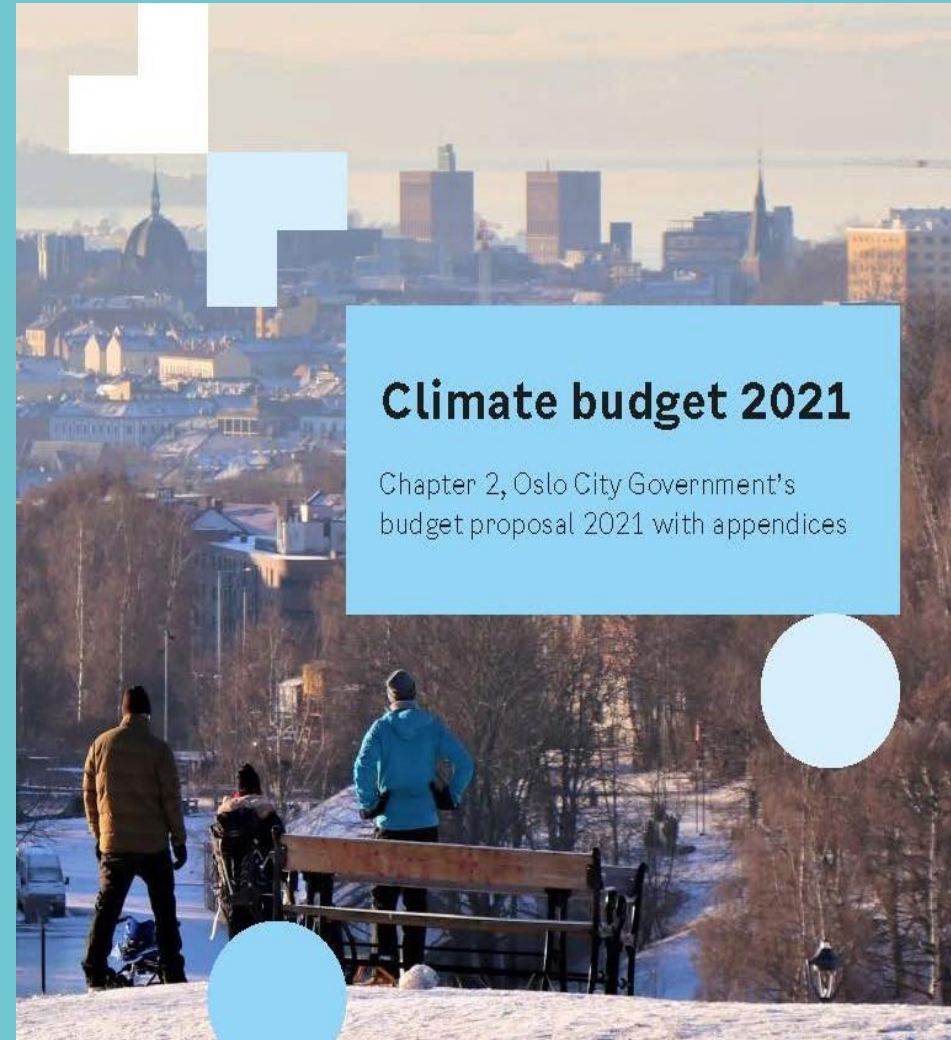


Light rail network, Addis Ababa

Climate budgeting: embedding climate consideration into all aspects of city decision-making

A *climate budget* is a systematic approach or governance system that ensures the carbon budget, or long-term emissions reduction target, is integrated into a city's daily operations and policies.

Solving the climate crisis requires change across our entire political, economic and social systems. This means that a 'whole of government' approach is needed.



Copenhagen to Divest From Fossil Fuels

By Climate Nexus Apr. 29, 2016 09:47AM EST

ENERGY



Climate Action: Mayor, Comptroller, Trustees Announce First-In-The-Nation Goal to Divest From Fossil Fuels

January 10, 2018

Divestment from fossil fuels: cities spur global action

Pension giant ABP to divest €15bn from fossil fuels by 2023

27 October 2021, source [edle newsroom](#)

Harvard University Will Stop Investing In Fossil Fuels After Years Of Public Pressure

September 10, 2021 · 12:02 PM ET

University of Toronto Endowment Is Phasing Out Fossil Fuels

By [Danielle Bochove](#) +Sign Up

October 27, 2021, 11:00 AM EDT Updated on October 27, 2021, 12:58 PM EDT

Boston University divesting from fossil fuels in investments, school president says

By [Travis Andersen](#) Globe Staff, Updated September 23, 2021, 1:00 p.m.



Ford Foundation to divest millions from fossil fuels

[Economy](#) Oct 18, 2021 4:24 PM EST

Ensuring bold climate action is equitable and beneficial for all

**C40
MAYORS'
AGENDA
FOR A
GREEN
AND JUST
RECOVERY**



CHANGE IS IN THE AIR

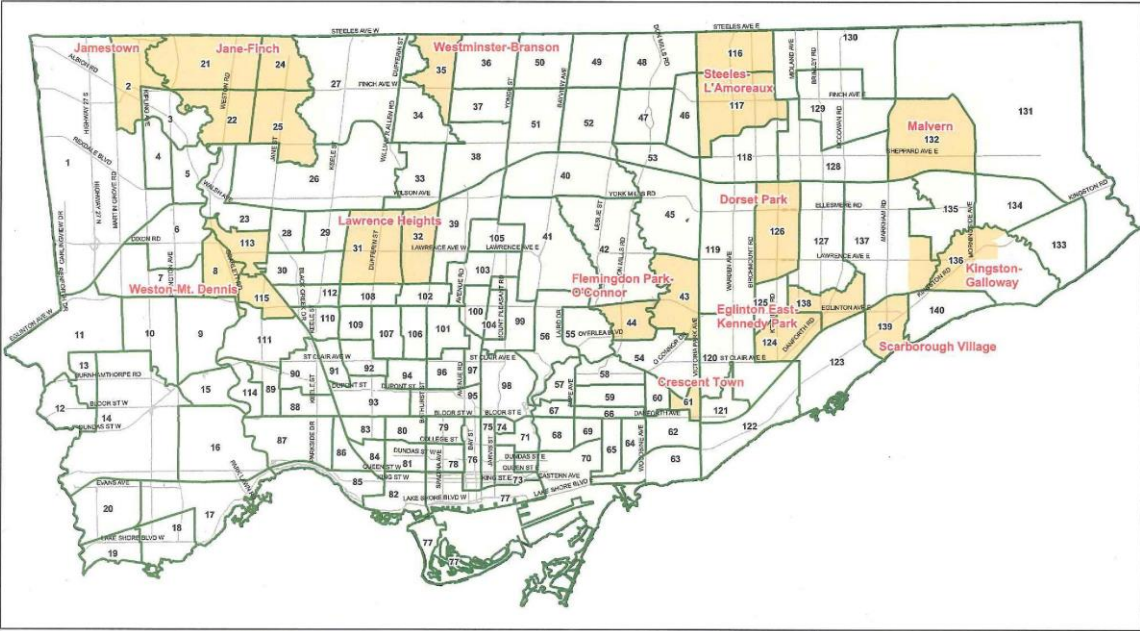
TORONTO'S COMMITMENT TO AN ENVIRONMENTALLY SUSTAINABLE FUTURE

**Lessons from
Toronto**



Lessons from Toronto

City of Toronto Priority Investment Neighbourhoods



Legend

- Neighbourhood (neighbourhood #)
- Priority Investment Neighbourhood
- Major Arterial Street

Notes: The PINs are composed of neighbourhoods, neighbourhood areas (two or more joined neighbourhoods) and one special area (Kingston-Galloway) which is built out of Statistics Canada Dissemination Areas (DAs). For information on all the City's 140 neighbourhoods, please visit <http://www.toronto.ca/demographics/neighbourhoods.htm>

TORONTO

Source: City of Toronto
 Copyright City of Toronto 2009. All Rights Reserved.
 Date of Publication: May 2009
 Prepared by: Social Policy Analysis & Research
 Contact: spar@toronto.ca



The voices of youth, civil society and indigenous groups are imperative to ensure increased government action



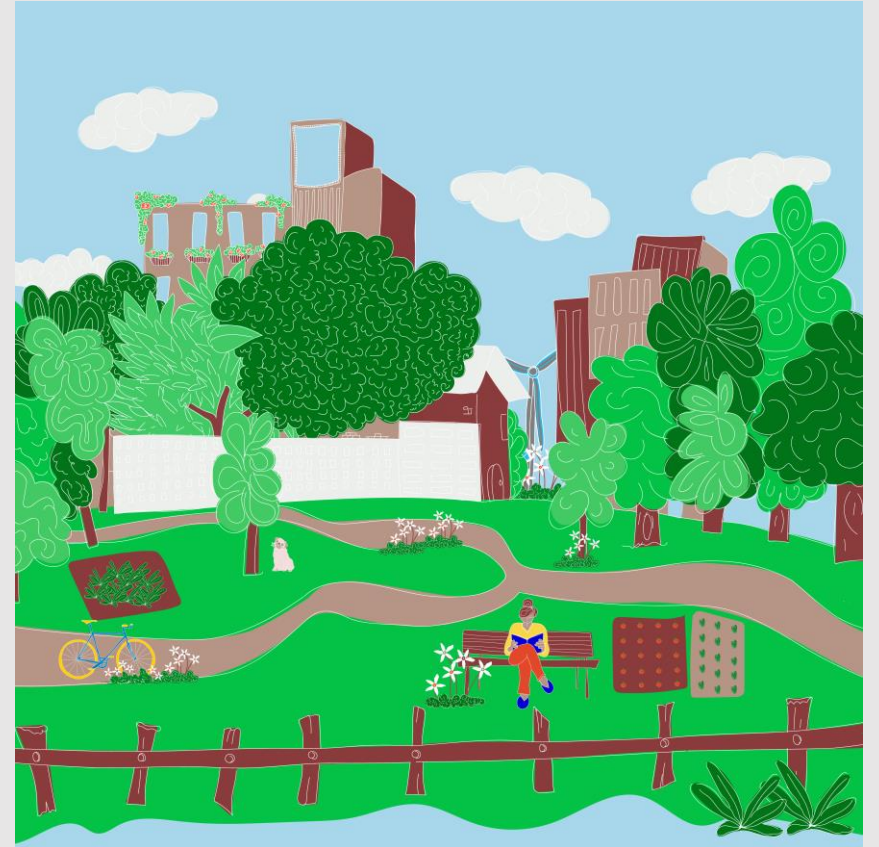
These inspiring stories of city action should give us hope in the fight against climate change



C40 Centre for Urban Climate Policy and Economy

The vision of the C40 Centre is to produce **timely, evidence-based research** which drives the urban climate agenda towards an **equitable and resilient world well under 1.5°C.**

It will empower **mayors, policymakers and urban practitioners**, with analysis, language, policies and examples of concrete actions that reinvent and **reinvigorate the idea of effective, purposeful government-led action.**



Thank You.