Building Efficiency Accelerator

Energy efficiency as a catapult to zero carbon buildings: Raising city ambition

4 June 2019
eceee Summer Study

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WORLD GREEN BUILDING COUNCIL

With support from:

Johnson Controls

P4G Partnering for Green Growth and the Global Goals 2030

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BEA Technical Providers & Network Amplifiers

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Lead Institution:

WORLD RESOURCES INSTITUTE | WRI ROSS CENTER FOR SUSTAINABLE CITIES

NGOs & Multilaterals:

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ICLEI Local Governments for Sustainability
WORLD GREEN BUILDING COUNCIL
World Business Council for Sustainable Development
GBPN Global Buildings Performance Network
CARBON TRUST
architecture 2030
COPENHAGEN CENTRE ON ENERGY EFFICIENCY SE4ALL EE HUB
U.S. GREEN BUILDING COUNCIL USGBC
UNITED NATIONS FOUNDATION
iea International Energy Agency
gef
UNDP
IFC International Finance Corporation WORLD BANK GROUP
ALLIANCE TO SAVE ENERGY
CLEAN ENERGY SOLUTIONS CENTER
PIONEERED BY THE ROCKEFELLER FOUNDATION 100 RESILIENT CITIES
Excellence In Design For Greater Efficiencies Edge
WORLD BANK GROUP ESMAP Energy Sector Management Assistance Program
INVESTOR CONFIDENCE PROJECT
3GF Global Green Growth Forum
BPIE BUILDINGS PERFORMANCE INSTITUTE EUROPE
NRDC
Global Cool Cities ALLIANCE
C40 CITIES CLIMATE LEADERSHIP GROUP
The Business Council for Sustainable Energy®

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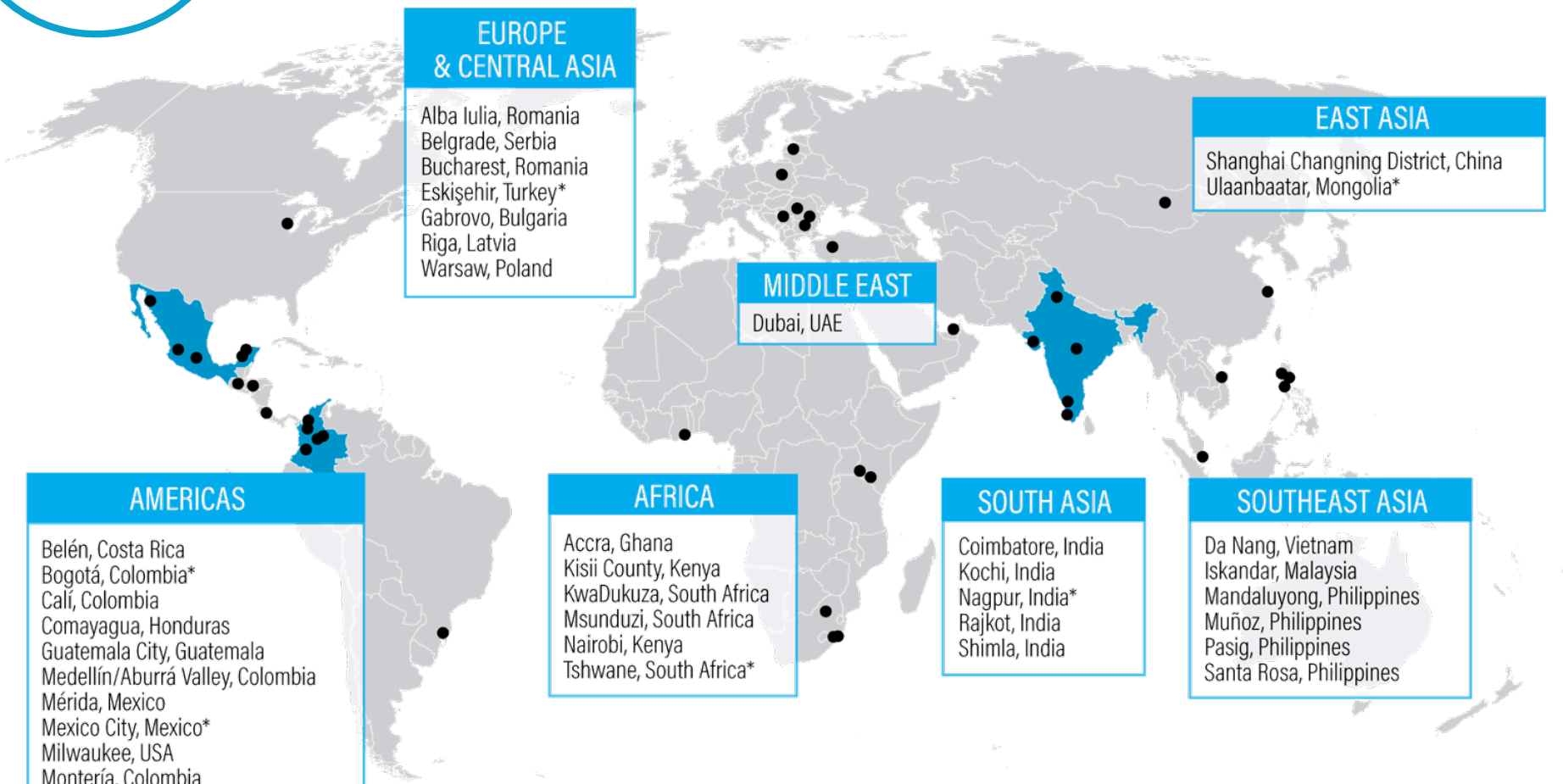
BEA cities are taking action



EUROPE & CENTRAL ASIA

Alba Iulia, Romania
Belgrade, Serbia
Bucharest, Romania
Eskişehir, Turkey*
Gabrovo, Bulgaria
Riga, Latvia
Warsaw, Poland

MIDDLE EAST

Dubai, UAE

EAST ASIA

Shanghai Changning District, China
Ulaanbaatar, Mongolia*

AMERICAS

Belén, Costa Rica
Bogotá, Colombia*
Cali, Colombia
Comayagua, Honduras
Guatemala City, Guatemala
Medellín/Aburrá Valley, Colombia
Mérida, Mexico
Mexico City, Mexico*
Milwaukee, USA
Montería, Colombia
Porto Alegre, Brasil
State of Campeche, Mexico
State of Jalisco, Mexico
State of Sonora, Mexico*

AFRICA

Accra, Ghana
Kisii County, Kenya
KwaDukuza, South Africa
Msunduzi, South Africa
Nairobi, Kenya
Tshwane, South Africa*

SOUTH ASIA

Coimbatore, India
Kochi, India
Nagpur, India*
Rajkot, India
Shimla, India

SOUTHEAST ASIA

Da Nang, Vietnam
Iskandar, Malaysia
Mandaluyong, Philippines
Muñoz, Philippines
Pasig, Philippines
Santa Rosa, Philippines

National Engagements
*"Deeper Engagement" cities (2018-2020)

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What are cities signing up to do?

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Work toward the BEA vision

Global vision

By 2030, all new buildings are highly-efficient and zero-carbon.
By 2050, all buildings are highly-efficient and zero-carbon.

Act on three specific commitments

Adopt and Implement an enabling **policy**

1. Policy

Implement a **pilot program** designed to be scaled to additional buildings

2. Pilot Program

Set goals, track and report progress.
Share experiences with other governments.

3. Tracking and communication

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Building Efficiency Accelerator

Startup: 2015-2017 BEA Accomplishments

253 CITIES
reached with Building Efficiency Accelerator (BEA) resources

47 COMMITMENTS
on building efficiency action from
25 CITIES

9 GLOBAL & REGIONAL EVENTS
with 300+ participants

18 LOCAL EVENTS
meetings and workshops with 500+ participants

21 WEBINARS
with 1,000+ participants from 121 countries

9 BEA cities engaged with potential funders at 2017 SEforALL Forum to discuss projects with investment potential of at least

$1.5 BILLION USD

8.3 MILLION TONS CO_2 EQUIVALENT
Avoided through 2030 based on BEA deep dive city actions under development, saving over $1B in energy costs

Learn more at buildingefficiencyaccelerator.org

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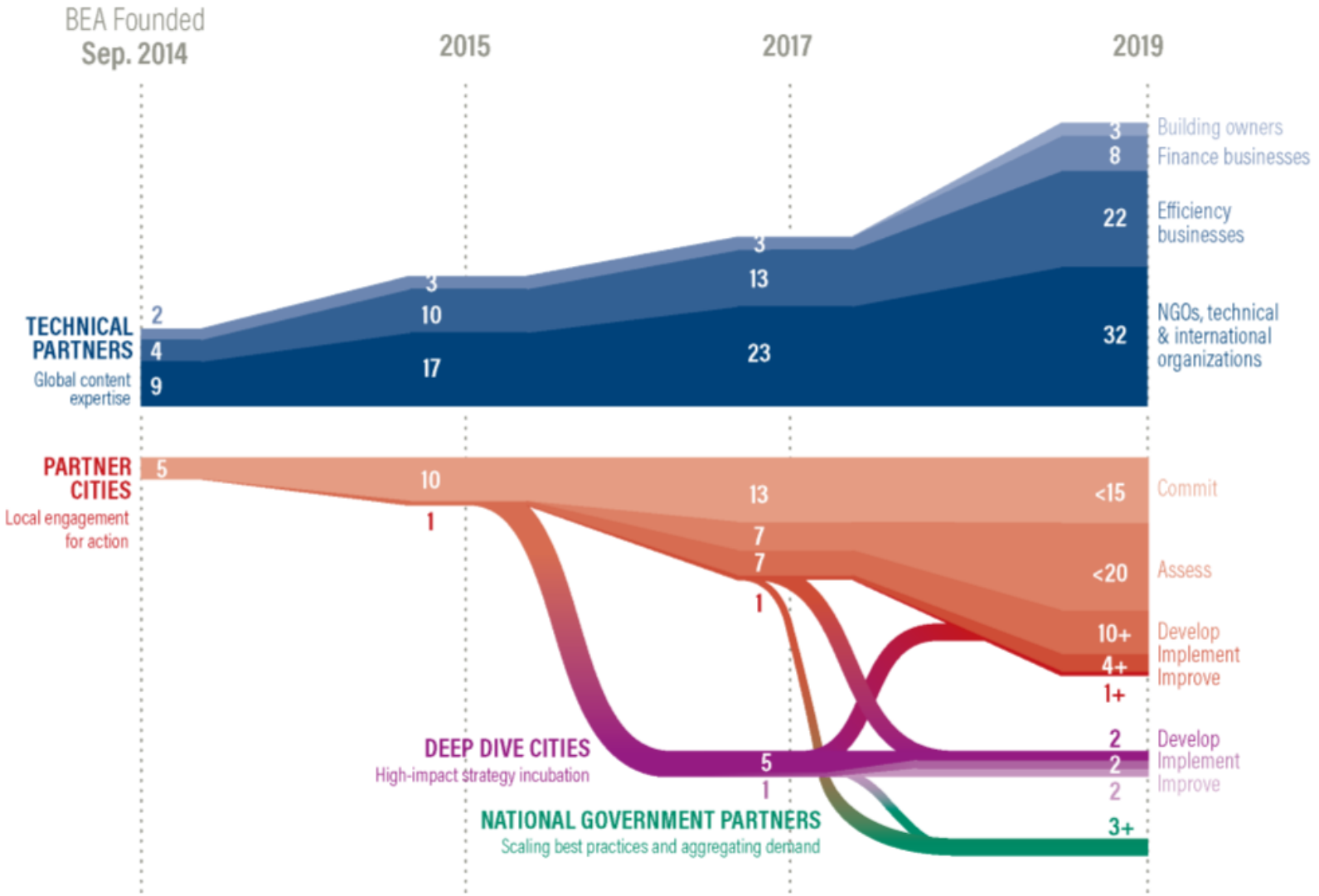
2018-2020: Scaling the platform



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2018-2022 and beyond: Global movement towards Zero Carbon Buildings to stay under 2°warming

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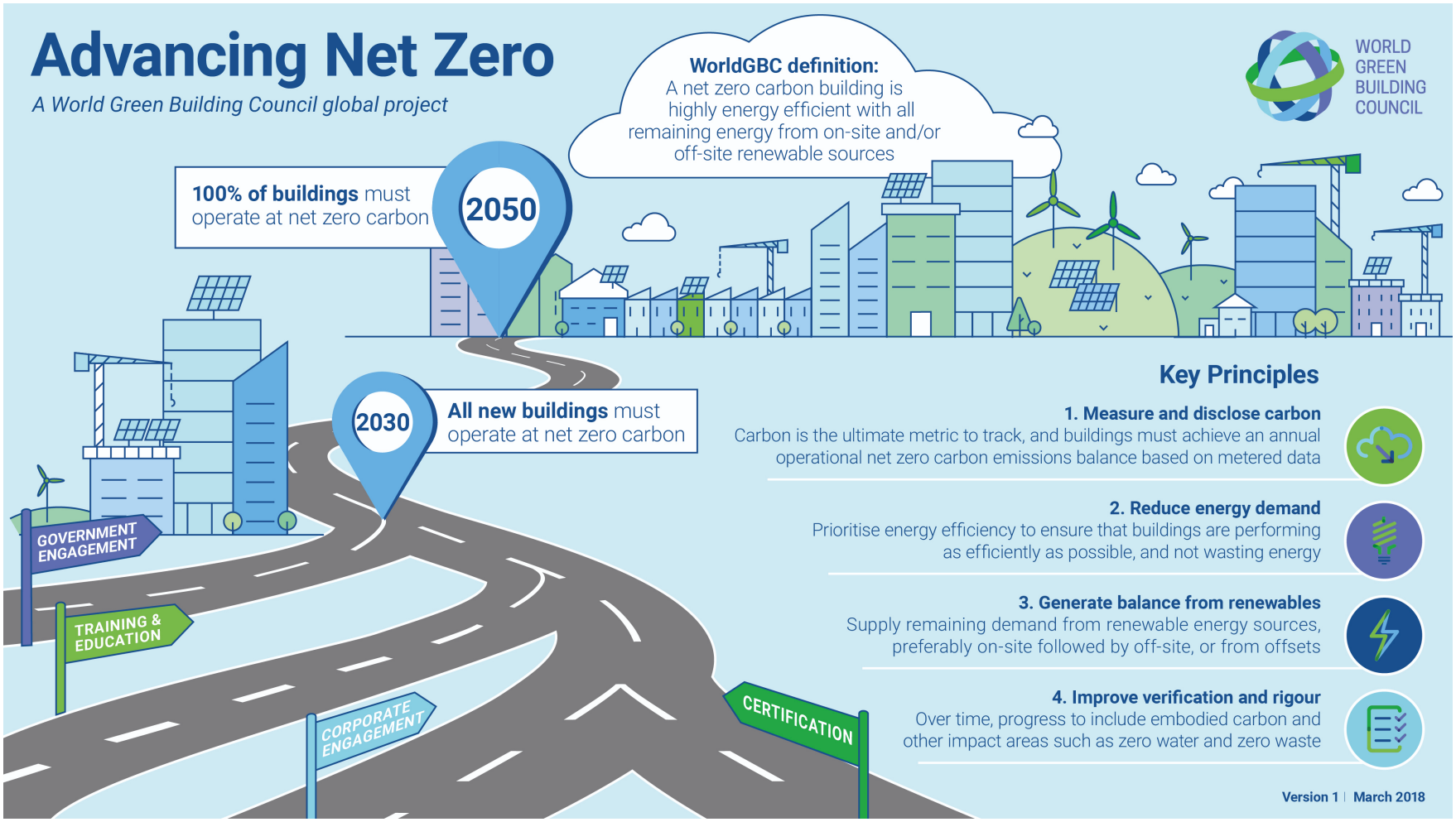

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How do we get to Zero Carbon Buildings?

- EE as first step
- Education and socialization
- Definitions matter!
  - On-site + off-site (↑ feasibility)
  - Embodied carbon (↑ difficulty, ↑ impact)
  - District and portfolio scale (↑ feasibility, ↑ complexity)
  - Consider infrastructure beyond buildings (↑ complexity)

Applying 4 years of BEA lessons to achieving ZCBs

- Expand engagement among national and subnational governments + private sector
- Encourage cities to increase the ambition of their commitments quickly!
  - Show what is possible today

… + Continued importance of prioritization and pre-development