



Building Efficiency Accelerator



GLOBAL ENERGY EFFICIENCY ACCELERATOR PLATFORM

An Introduction to the SEforALL Building Efficiency Accelerator

Belgrade BEA Kick-off Meeting – 31 October 2016

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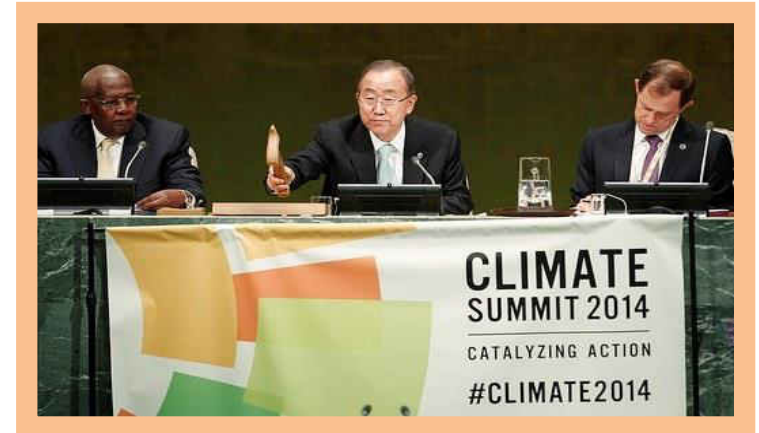


UN Sustainable Energy for All

One Goal:

Achieving Sustainable Energy for All by 2030

Three Objectives:



 ENSURING *universal access* TO MODERN ENERGY SERVICES.

 DOUBLING THE GLOBAL RATE OF IMPROVEMENT IN *energy efficiency*.

 DOUBLING THE SHARE OF *renewable energy* IN THE GLOBAL ENERGY MIX.

Energy Efficiency Accelerators

The Global Energy Efficiency Accelerator Platform was established to support specific sector-based energy efficiency accelerators

Lighting

Global market transformation to efficient lighting



Appliances & Equipment

Global market transformation to efficient appliances & equipment



Vehicle Fuel Efficiency

Improve the fuel economy capacity of the global car fleet



Buildings

Promote sustainable building policies & practices worldwide



District Energy

Support national & municipal governments to develop or scale-up district energy systems



Industry

Implementing Energy Management Systems, technologies & practices



Power Sector Accelerator is under development

Why is building efficiency important?

Large impact:

- Buildings consume nearly **one-third of energy demand** and account for about one-fourth of GHG emissions globally

Large potential:

- Global building energy **demand can be reduced by one-third by 2050**, if known EE best-practices are implemented on a large scale across regions

Long-lasting implications:

- Buildings **last for 30-50 years or more**. Poor choices today can **lock-in** high costs, carbon emissions, and poor urban services

Multiple benefits:

Economic

Cost-effective opportunities : each additional \$1 spent on EE avoids more than \$2, on average, in energy supply investments

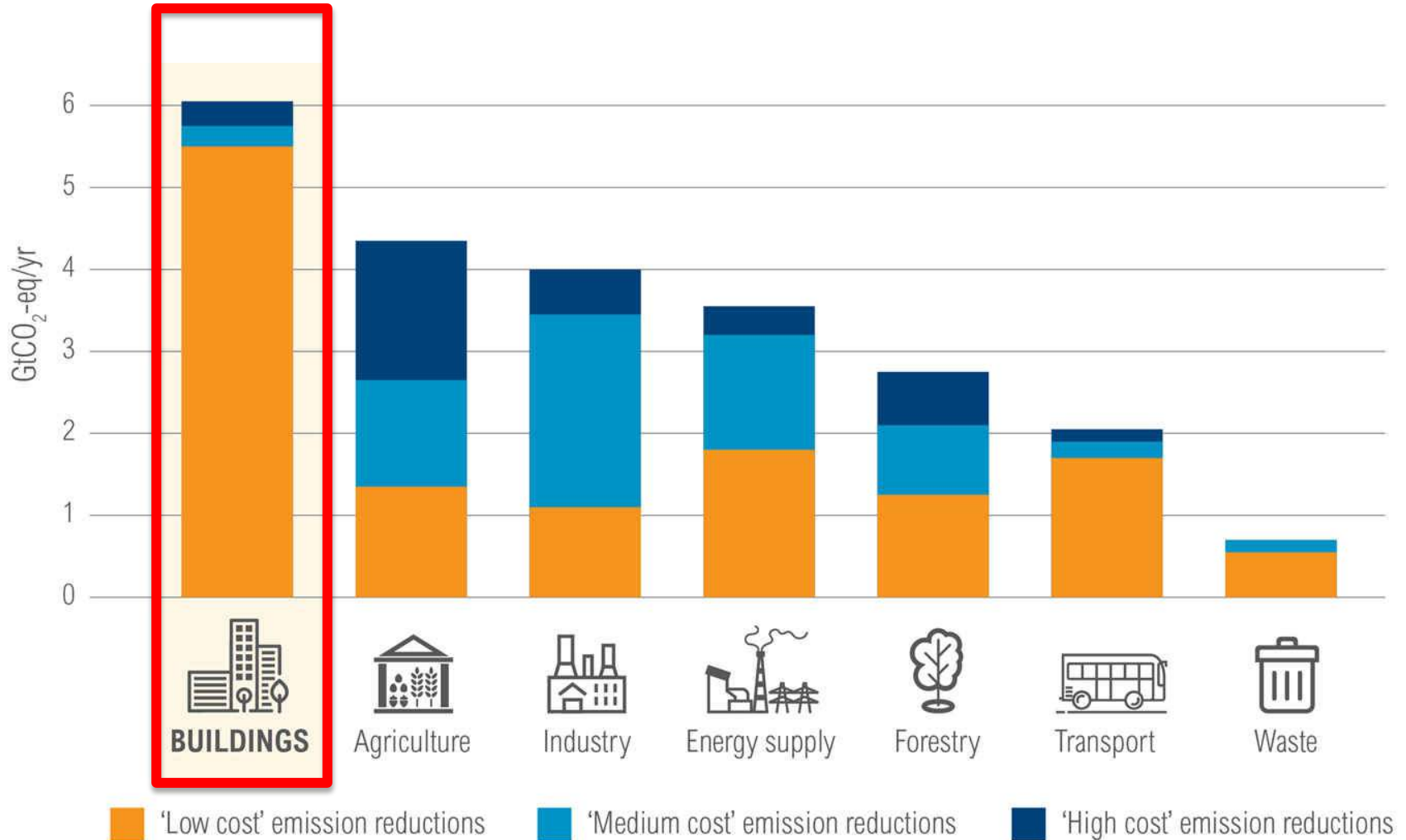
Social

Energy access, Reliability, Security of energy supply, Health & productivity improvement, Job creation

Environmental

GHG emissions reduction, Sustainable building materials, Water conservation, Climate resilience

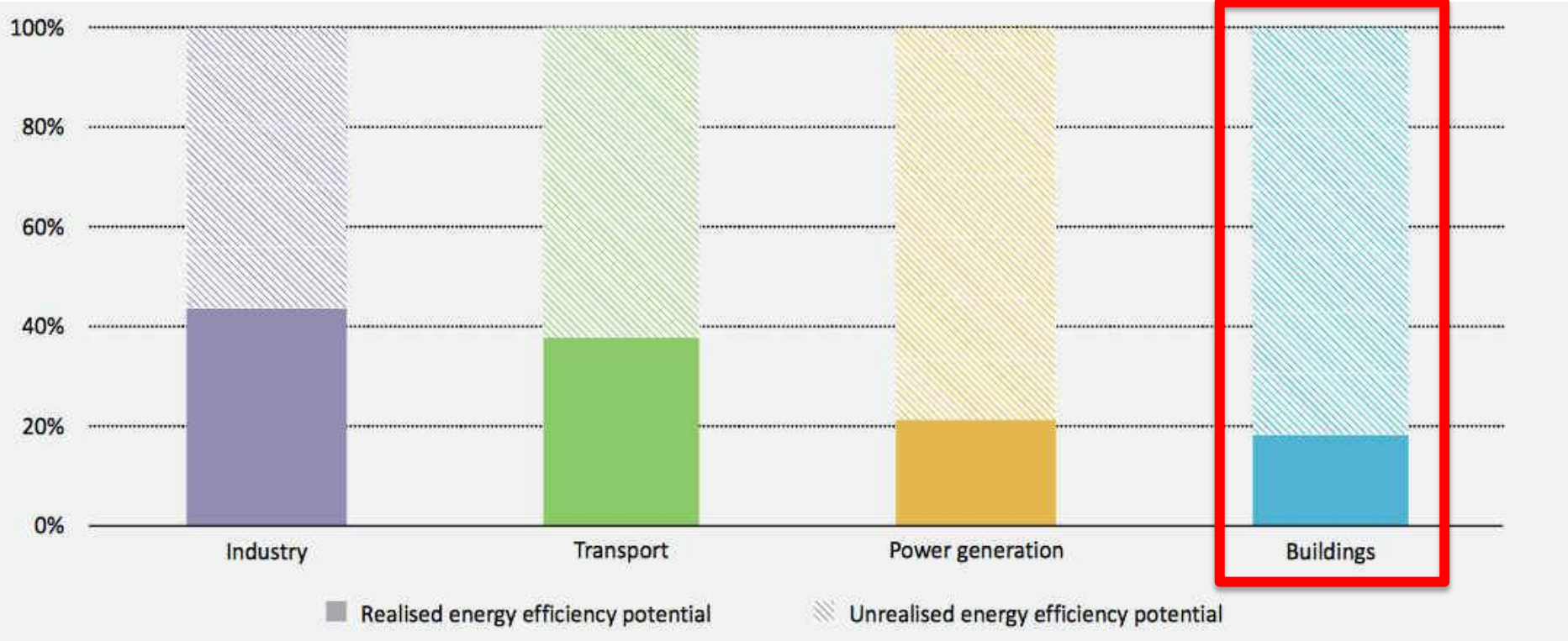
Building efficiency Is the most cost-effective emissions reduction strategy...



Note: 'Low cost' emission reductions = carbon price <20 US\$/tCO₂-eq. 'Medium cost' = <50 US\$/tCO₂-eq. 'High cost' = <100 US\$/tCO₂-eq. Source: IPCC. 2007. IPCC Fourth Assessment Report: Climate Change 2007: Synthesis Report. "[4.3 Mitigation options.](#)"

...But without accelerated action much opportunity will not be realized

Economic Energy Efficiency Potential, 2035



Source: IEA, 2013, Transition to Sustainable Buildings

Acceleration of building efficiency policy efforts

New partnerships enable implementation of ambitious projects and policy packages to address barriers, bridge efficiency gap, and avoid lock-in of inefficient building stock.



Source: World Resources Institute (2016)

Building Efficiency Accelerator (BEA) partnership

Coordinating partner:



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WRI ROSS CENTER FOR
SUSTAINABLE
CITIES

NGOs/Associations/Multilaterals:



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World Business Council for
Sustainable Development



International
Finance Corporation
WORLD BANK GROUP



Service Providers/Companies:

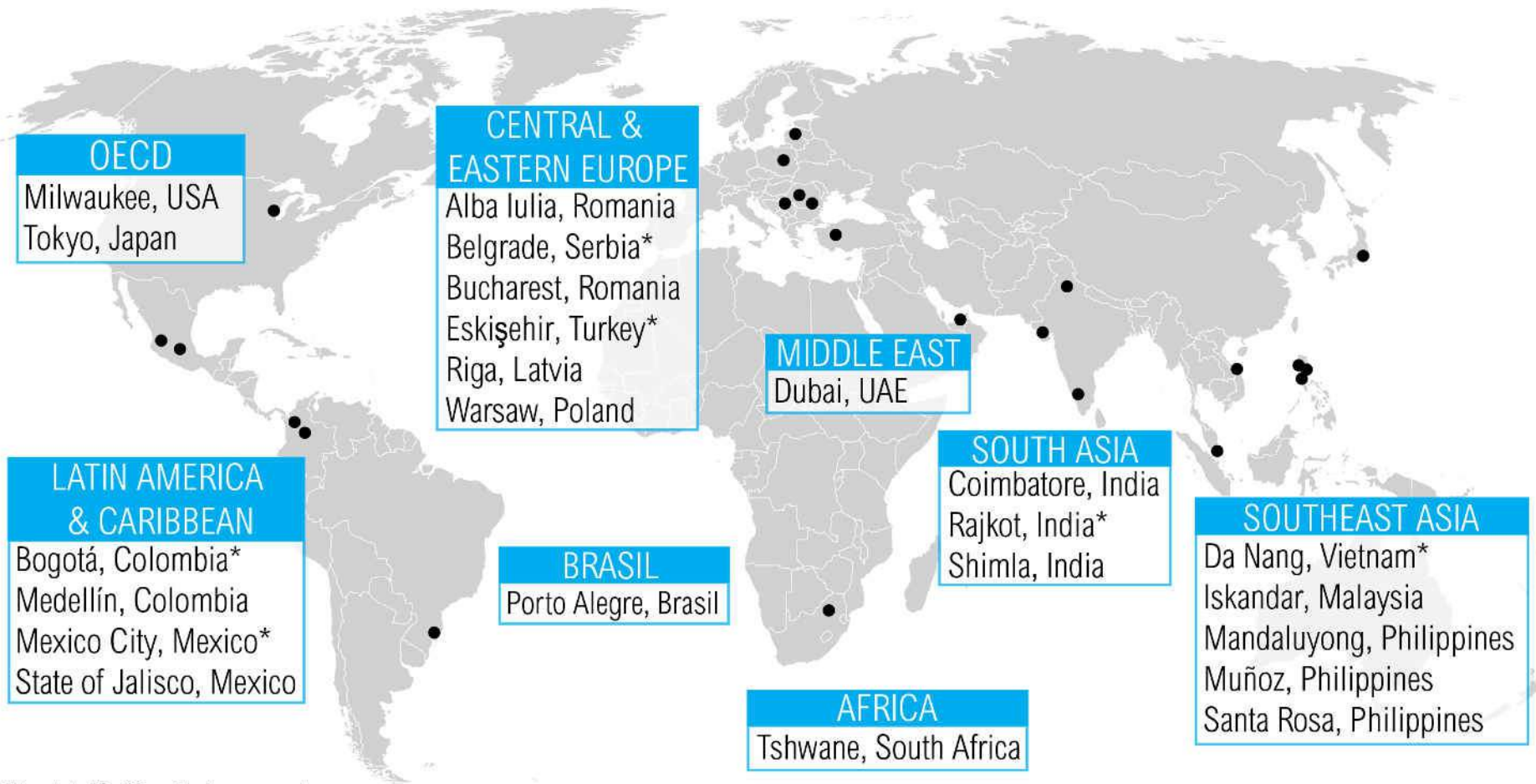


Building Efficiency Accelerator (BEA) partnership

Subnational Jurisdictions:



BEA Partner Jurisdictions



*City selected for "Deep Dive" engagement

What are cities signing up to do?

Overarching commitment:

double the rate of building energy efficiency by 2030 in targeted sector within the jurisdiction

Implement one enabling **policy**

Policy

Implement one demonstration **project**

Project

Create a baseline, **track and report** annual progress, and **share experiences** with other governments

Tracking & communication

What does the BEA provide?

**Local action
prioritization process**



Collaborative, multi-stakeholder assessments and workshops to define and prioritize policies and projects

**Tools, expertise and
solutions**



Technical support through trainings, tools. Access to network of subject matter experts and service providers.

Funding opportunities



Connect projects in need to financial partners who can provide funding to efficiency actions

**International
recognition and
collaboration**



Recognition of efficiency actions at international events. Knowledge sharing through a global network of peers.

NEW REPORT

ACCELERATING BUILDING EFFICIENCY: EIGHT ACTIONS FOR URBAN LEADERS



Interactive and PDF versions available

wri.org/buildingefficiency

Efficient buildings are essential for sustainable cities; local action is critical

- *Why* – economic, environmental and social **benefits to cities**
- *What* – **8 city-level action areas** to improve building efficiency
- *How* – building lifecycle, stakeholders to engage, **process** for taking action

Topics of BEA support to jurisdictions: 8 city-level actions to improve building efficiency

POLICY & PROGRAM MECHANISMS	1. CODES & STANDARDS	<ul style="list-style-type: none"> • Building energy codes and product standards establish minimum requirements for energy performance.
	2. TARGETS	<ul style="list-style-type: none"> • Targets to align interests and spur action to improve efficiency in the building sector.
	3. PERFORMANCE INFO & CERTIFICATIONS	<ul style="list-style-type: none"> • Data, baselines, disclosure and certifications for market differentiation of building performance or attributes.
	4. INCENTIVES & FINANCE	<ul style="list-style-type: none"> • Programs and incentives to provide funding to building efficiency improvements.
STAKEHOLDER STRATEGIES	5. GOVERNMENT LEADERSHIP BY EXAMPLE	<ul style="list-style-type: none"> • Programs to support government efficiency, including public building retrofits and innovative procurement.
	6. BUILDING OWNER & OCCUPANT ACTIONS	<ul style="list-style-type: none"> • Building design, construction, operations, occupant behavior.
	7. TECHNICAL & FINANCIAL SERVICES	<ul style="list-style-type: none"> • Market development and skilled workforce for private providers of building construction, services & equipment
	8. WORKING WITH UTILITIES	<ul style="list-style-type: none"> • Planning and programs by utility companies for energy efficiency improvement.

Deep Dive Case Study: Mexico City

- September 2014 commitment from Mexico City gov't to:
 - Implement a building energy code
 - Retrofit public buildings
- Launch workshop for common vision – March 2015
 - 100 multi-stakeholder participants – including city government, federal government, businesses, finance, civil society and consulting
- Action plan underway in 2016: 4 workgroups chaired by Mexico City government staff and an SE4All partner, project managed by WRI/CTS EMBARQ
 - Technical workshop on building retrofits and finance
 - Recommendations on action by government and stakeholders delivered in October; Actions announced at COP 21 in December
 - Program implementation phase 1: January 2016-October 2016
 - In June: New energy code adopted; public building audits approved



Tanya Muller, Secretary of the Environment, discussing Mexico City's leadership actions



Mayor Mancera at COP21 Buildings Day



BEA city engagement process

In Belgrade



- **Partnership agreement** signed by city and Accelerator
- **Areas of interest** and activity agreed with city authorities

- High-level assessment, using available tools and data, to **identify locally-appropriate actions** to improve building efficiency.
- Access relevant best practice **technical solutions and expertise** through Accelerator network.

- Organization and facilitation of **multi-stakeholder engagement** focused on prioritizing actions in areas of interest.
- **Plan of action** for implementing prioritized energy efficiency policies, programs or projects
- Solicit **technical and financial assistance** from Accelerator partners.

- Policy/project **funded and staffed**
- Policy/project **implementation** initiated

- Establish building efficiency **performance baseline** and track improvements.
- Participate in peer-to-peer, **best practice sharing**.
- Develop **continuous improvement** approach to building efficiency and identify new actions.

We are pleased to work in partnership with Belgrade!



WORLD GREEN BUILDING COUNCIL



World Business Council for Sustainable Development



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Global Green Growth Forum



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