



# Accelerating Energy Efficiency in Buildings

Workshop on Energy Efficiency for Sustainable Cities

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# Global Energy Efficiency Accelerator Platform

The **Accelerator Platform** was established to support specific sector-based energy efficiency accelerators

## Transport and Motor Fuel Efficiency

Improve the fuel economy capacity of the global car fleet



## Lighting

Global market transformation to efficient lighting



## Appliances & Equipment

Global market transformation to efficient appliances & equipment



## Building Efficiency

Promote sustainable building policies & practices worldwide



## District Energy

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



## Industrial Energy Efficiency

Implementing Energy Management Systems, technologies & practices



## Power Sector

Improving the efficiency of generation, transmission, distribution & end-use



## Finance

Accelerating investment in energy efficiency



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# Building Efficiency Accelerator (BEA)

Public-private partnership under the United Nations Sustainable Energy Initiative (SE4All)

BEA is one of 6 SE4ALL “Accelerators”

BEA focused on city/sub-national efficiency policies and projects

Partners:

- Globally World Resources Institute is coordinating partner
- Currently: 8+ NGOs, 2 business associations 8+ businesses



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# The building efficiency conundrum

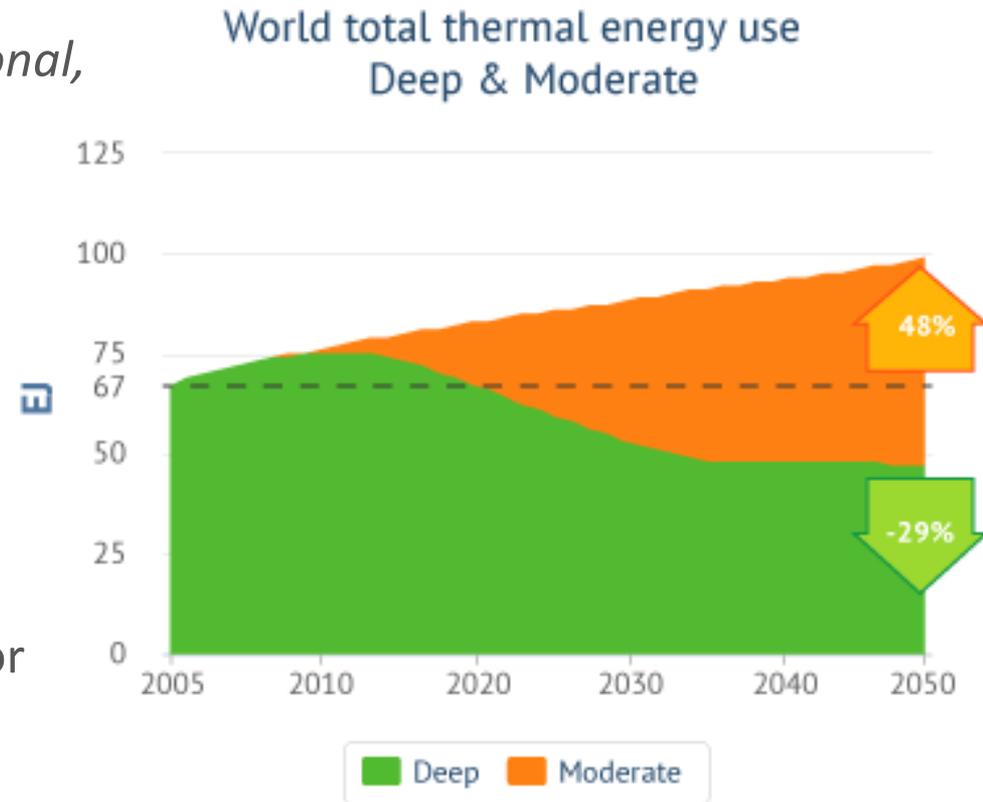
Technologies are available and cost-effective

*Barriers are behavioral and institutional, not technical*

- Awareness
- Technical expertise
- Performance uncertainty
- ROI requirements
- Split incentives
- Funding

Diffuse decisions, result in inaction or single-technology approaches

Must overcome barriers to achieve “deep” efficiency



Source: GBPN. 2014. Tool for Building Energy Performance Scenarios

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Supporting partners to **create local solutions** by adapting, learning, course correcting

Using **evidence and measurement** to shape action

Through **systematic learning**, building consensus **to shift local and national policies**, and the global agenda

**200 staff**  
in 9 offices in 6 countries

**55 cities**  
of active engagement



**8 practice areas**

Building Efficiency, Energy & Climate, Health & Road Safety, Urban Mobility, Urban Development, Resilience, Governance, Water



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# Partners

## Coordinating partner:



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## Cities:

Mexico City (Mexico), Milwaukee (United States), Science City of Muñoz (Philippines), Toyama (Japan), Warsaw (Poland)

## NGOs/Associations/Multilaterals:

Buildings Performance Institute Europe  
Business Council for Sustainable Energy  
Copenhagen Centre on Energy Efficiency  
Global Buildings Performance Network  
Global Environment Facility  
Global Green Growth Forum  
ICLEI - Local Governments for Sustainability  
Investor Confidence Project  
UN Environment Programme  
UN Foundation  
US Green Building Council  
World Bank Group (ESMAP)  
World Business Council for Sustainable Development

 **World Green Building Council**  
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## Service Providers/Companies:

Accenture  
Alstom  
China Energy Conservation and Environmental Protection Group (CECEP)  
Danfoss  
Ingersol Rand  
Johnson Controls  
Philips  
Saint-Gobain  
TECNALIA



# Acceleration of 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.



# BEA City Engagement Process

Light Touch



Commitment

Assessment

Development

Implementation

Improvement

Deep Dive



# 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** and one demonstration **project** to be announced at COP21 in Paris

**Interventions**

Create a **baseline** of building energy efficiency performance

**Baseline**

Track, report annual progress, and **share experiences** and best practices with other governments

**Tracking & communication**

# Menu of Policies and Mechanisms for Building Efficiency

<b>Codes &amp; Standards</b>	<ul style="list-style-type: none"><li>• Building codes to establish minimum requirements of energy performance.</li></ul>
<b>Targets</b>	<ul style="list-style-type: none"><li>• Targets to align interests and spur action to improve efficiency in the building sector.</li></ul>
<b>Performance Info &amp; Certifications</b>	<ul style="list-style-type: none"><li>• Data, baselines, disclosure and certifications for market differentiation of building performance or attributes.</li></ul>
<b>Finance &amp; Incentives</b>	<ul style="list-style-type: none"><li>• Programs and incentives to provide funding to building efficiency improvements.</li></ul>
<b>Government Leadership</b>	<ul style="list-style-type: none"><li>• Programs to support government efficiency, including public building retrofits and innovative procurement.</li></ul>
<b>Utility Actions</b>	<ul style="list-style-type: none"><li>• Planning and programs by utility companies for energy efficiency improvement.</li></ul>
<b>Efficiency Industry &amp; Workforce Capacity</b>	<ul style="list-style-type: none"><li>• Market development and skilled workforce for private providers of building construction, services &amp; equipment</li></ul>
<b>Building Owner &amp; Occupant Actions</b>	<ul style="list-style-type: none"><li>• Building operations, occupant behavior.</li></ul>

# Accelerator Partnership in Mexico City

Commitment from Mexico City government to:

1. Implement a building energy code
2. Retrofit public buildings

Launch event and workshop for common vision – 19 March

- 100 multi-stakeholder participants – including 25 city government, 5 federal government, 20 businesses, 8 finance, 21 consultants

Action plan now underway: 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 held in August
- Recommendations on action by government and stakeholders to be delivered in October
- Program implementation: October 2015-October 2016







# Thank you for your attention!



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[www.energyefficiencycentre.org](http://www.energyefficiencycentre.org)

# Goal & Key pillars

**Goal:** to double the rate of energy efficiency improvement by 2030  
in each participating jurisdiction

Three pillars of BEA's work:

Focus on Cities  
and Sub-national  
Jurisdictions



Public-Private  
Partnership



Policy & Project  
Development



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**Tracking & communication**

# How does BEA benefit jurisdictions?

## New partners for implementing efficiency in buildings

- Development of shared vision and agenda
- Private sector commitments to local efficiency improvement
- Collaboration across government ministry “silos” (horizontal) and between national and subnational government (vertical)
- Knowledge exchange with peer cities and global partners

## Technical assistance

- stakeholder engagement
- policy prioritization
- tracking progress
- identifying funding for policies and projects

## International recognition



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