An Introduction to the SEforALL Building Efficiency Accelerator

Updated March 2017
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.
The Global Energy Efficiency Accelerator Platform was established to support specific sector-based energy efficiency accelerators:

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<th>Sector</th>
<th>Initiative</th>
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<td>Lighting</td>
<td>Global market transformation to efficient lighting</td>
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<tr>
<td>Appliances &amp; Equipment</td>
<td>Global market transformation to efficient appliances &amp; equipment</td>
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<td>Vehicle Fuel Efficiency</td>
<td>Improve the fuel economy capacity of the global car fleet</td>
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<td>Buildings</td>
<td>Promote sustainable building policies &amp; practices worldwide</td>
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<td>District Energy</td>
<td>Support national &amp; municipal governments to develop or scale-up district energy systems</td>
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<td>Industry</td>
<td>Implementing Energy Management Systems, technologies &amp; practices</td>
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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.

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.

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.
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.
Building Efficiency Accelerator (BEA) partnership

Coordinating partner: WORLD RESOURCES INSTITUTE | WRI ROSS CENTER FOR SUSTAINABLE CITIES

NGOs/Associations/Multilaterals:

- I.C.L.E.I Local Governments for Sustainability
- World Business Council for Sustainable Development
- Global Buildings Performance Network
- Carbon Trust
- United Nations Foundation
- International Energy Agency
- Global Environment Facility (GEF)
- United Nations Development Programme (UNDP)
- International Finance Corporation (IFC)
- World Bank Group
- Clean Energy Solutions Center
- Energy Sector Management Assistance Program
- Global Green Growth Forum
- Investor Confidence Project
- Buildings Performance Institute Europe
- 100 Resilient Cities
- C40 Cities
- The Business Council for Sustainable Energy
- Johnson Controls
- Philips
- Danfoss
- Alstom
- Saint-Gobain
- Tecnalia
- Accenture
- Ingersoll Rand
- Schneider Electric
- Resources Institute
- Inspiring Energy For All
- Inspiring Business
Building Efficiency Accelerator Cities & States

- Alba (Iuliia)
- Belgrad
- Bogotá D.C.
- București
- Coimbatore
- Da Nang
- Eskişehir
- Iskandar, Malaysia
- Jalisco
- Kish County
- Mandaue City
- Medellín
- Ciudad Blanca
- Mérida
- Milwaukee
- Santa Rosa, Laguna
- Tokyo
- Tshwane
- Ulaanbaatar
- Warsaw

Building Efficiency Accelerator
BEA Partner Jurisdictions

**USA & CANADA**
Milwaukee, USA

**LATIN AMERICA & CARIBBEAN**
Bogotá, Colombia*  
Medellín, Colombia  
Mérida, Mexico  
Mexico City, Mexico*  
State of Jalisco, Mexico

**CENTRAL & EASTERN EUROPE**
Alba Iulia, Romania  
Belgrade, Serbia*  
Bucharest, Romania  
Eskişehir, Turkey*  
Riga, Latvia  
Warsaw, Poland

**MIDDLE EAST**
Dubai, UAE

**SOUTH ASIA**
Coimbatore, India  
Rajkot, India*  
Shimla, India

**EAST ASIA**
Ulaanbaatar, Mongolia  
Tokyo, Japan

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

*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**
- Implement one demonstration **project**
- Create a baseline, **track and report** annual progress, and **share experiences** with other governments

**Policy**

**Project**

**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.
BEA city assistance process

All Partner Cities

Commitment
- Sign partnership agreement
- Identify preliminary interest areas

Assessment
- Assess locally-appropriate building efficiency actions
- Access BEA Partners’ best practice technical solutions and expertise

Development
- Engage with stakeholders to help prioritize actions
- Develop an action plan for implementing prioritized policies and activities
- Solicit technical and financial assistance from BEA partners

Implementation
- Fund and staff BEA policy & project
- Implement BEA policy & project

Improvement
- Establish building efficiency performance baseline and track improvements.
- Share best practices with other BEA cities
- Develop an approach for continuous improvement

Deep Dive

All Partner Cities
BEA assistance (available to all jurisdictions)

- Assigned BEA point of contact
- Assessment and action prioritization process
- Resources and assistance from technical work groups of BEA NGOs and businesses:
  - Topics include: prioritizing actions, energy codes, building certifications, retrofitting, finance, procurement, tracking progress, private sector engagement
- Webinars and trainings
- Regional meetings
- Matchmaking with peer, inspiring, or aspiring cities
Deep Dive assistance (available to some BEA jurisdictions)

• 6 BEA jurisdictions selected for “deep dive” assistance:
  – One staff from BEA partner funded and assigned to work full-time with jurisdiction for 12-16 months
  – Coordinate prioritization and implementation of local building efficiency policies and projects

• Benefits of deep dive, on-the-ground assistance:
  – Enhanced staff capacity and building efficiency focus
  – Local multi-stakeholder engagement process
  – Prioritization of actions and assistance in implementation through leveraging BEA partners
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: 4 workgroups chaired by Mexico City government staff and a local partner, managed by WRI Mexico
  – August 2015 technical workshop on building retrofits and finance
  – Recommendations on action by government and stakeholders delivered in October 2015; Actions announced at COP 21 in Dec.
  – Program implementation phase 1: January-December 2016
  – June: energy code adopted; Dec: 4 public building audits complete
  – Phase 2 ongoing: code implementation capacity building, retrofitting, additional public buildings audits
We welcome new national and sub-national partners!

For more information or to join as a partner, contact:

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buildingefficiencyaccelerator.org