Introduction to the Building Efficiency Accelerator

March 14th, 2017
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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.
The Global Energy Efficiency Accelerator Platform was established to support specific sector-based energy efficiency accelerators:

<table>
<thead>
<tr>
<th>Sector</th>
<th>Description</th>
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<tbody>
<tr>
<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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<tr>
<td>Vehicle Fuel Efficiency</td>
<td>Improve the fuel economy capacity of the global car fleet</td>
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<tr>
<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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<tr>
<td>Industry</td>
<td>Implementing Energy Management Systems, technologies &amp; practices</td>
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Power Sector Accelerator is under development.
Building Efficiency Accelerator (BEA) partnership

Subnational Jurisdictions:
BEA Partner Jurisdictions

**OECD**
- Milwaukee, USA
- Tokyo, Japan

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

**LATIN AMERICA & CARIBBEAN**
- Bogotá, Colombia*
- Medellín, Colombia
- 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

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

**AFRICA**
- Tshwane, South Africa

*City selected for “Deep Dive” engagement
Building Efficiency Accelerator (BEA) partnership

Coordinating partner:

NGOs/Associations/Multilaterals:

Service Providers/Companies:
Why is building efficiency important?

**Large impact:**
- Buildings consume one third of energy demand and account for about one quarter of GHG emissions globally

**Large potential:**
- Global building energy demand can be reduced by one third by 2050, with best practices

**Long-lasting implications:**
- Buildings last for 40-100 years or more. Poor choices today can lock-in high costs, carbon emissions, and poor urban services

**Multiple benefits:**

**Economic**
- Construction represents 16% of GDP
- Each $1 spent on EE avoids more than $2 in energy supply spending

**Social**
- Energy access
- Reliability
- Energy security
- Public health & productivity
- Job creation

**Environmental**
- GHG emissions reduction
- Sustainable building materials
- Water conservation
- Climate resilience
Partnerships and commitments enable implementation of ambitious projects and policy packages to address barriers, bridge efficiency gap, and avoid lock-in of inefficient buildings.
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.
Today’s webinar:

Creation of energy-efficient Buildings Renovation Action Plans for cities: guideline and application cases

• A methodology for elaboration of national roadmaps for energy-efficient buildings renovation where the most relevant stakeholders, barriers and potentials are identified.

• A guideline for cities for creation of buildings renovation action plans adjusted to their needs and constraints, which will work as a tool for the cities governments and policy makers.

• Action Plan of the City of Rotterdam (Netherlands).

• Energy Effic. & Urban Regeneration Experiences in Vitoria-Gasteiz (Spain).
Today’s webinar:

Steps forward at different scales

National Roadmap for Energy Renovation

• Example for diverse countries

How to develop Urban Action Plans?

• Guideline for creation of action plans

Action Plan for Cities

• Application of the guideline to the case of the City of Rotterdam

Execution of actions by diverse stakeholders

• Examples of renovation actions the City of Vitoria-Gasteiz