Tools for Building Energy Efficiency: Resources for Policy Development

- A Sustainable Energy for All Webinar – 24 November 2015

Organized by The Clean Energy Solutions Center, in collaboration with the Copenhagen Centre on Energy Efficiency (C2E2), the World Resource Institute (WRI) and ICLEI – Local Governments for Sustainability (ICLEI)







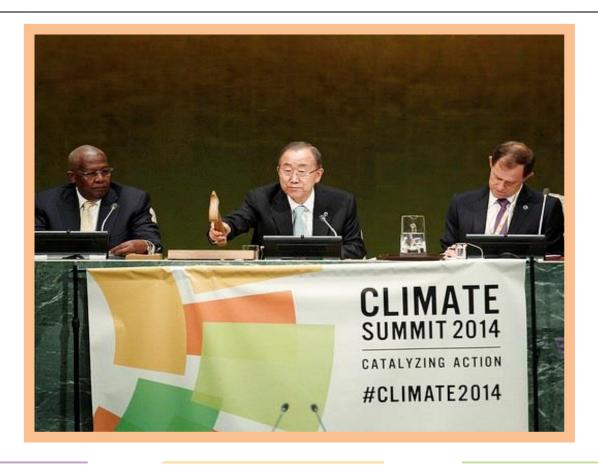


Today's agenda

- 1. Welcome and Introduction by moderator (5 min)
 - Maryke van Staden, Low Carbon Cities Program Manager, ICLEI World Secretariat
- 2. Mapping of building efficiency tools
 - Ksenia Petrichenko, C2E2 & Nate Aden, WRI (13 min)
- 3. Tools application case studies
 - a) Common Carbon Metric: scoping the situation at the city level on energy efficiency and setting the baseline for the city
 - Peter Graham, GBPN (15 min)
 - b) TRACE: identifying and prioritizing priority areas for energy efficiency actions in the city
 - Christian Daniel Mahler, World Bank (15 min)
- 4. Conclusion: how cities can start acceleration of energy efficiency and what support they can get
 - Jennifer Layke, WRI (10 min)
- 5. Question & Answers (20 min)



UN Sustainable Energy for All











Energy Efficiency Accelerators

The 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











GLOBAL ENERGY EFFICIENCY ACCELERATOR PLATFORM

An Introduction to the SE4ALL Building Efficiency Accelerator





WORLD RESOURCES INSTITUTE





Building Efficiency Accelerator Partners























































World Business Council for Sustainable Development













Why is the efficiency of buildings important?

Large impact:

Buildings consume
 nearly 40% of energy
 demand and account
 for about one third 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

Socia

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

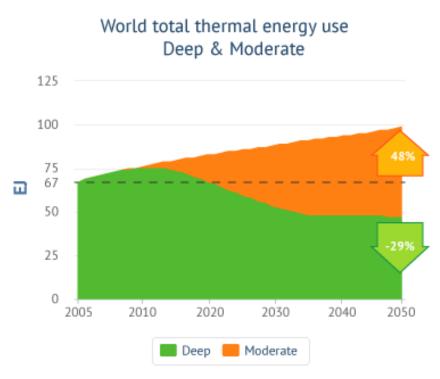
Environmental

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



The building efficiency conundrum

- Technologies are available and costeffective
- 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





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.





What are BEA cities signing up to do?

Overarching commitment:

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

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



Call to Action

Ministries, governments, industry, universities, NGOs and international organisations can help support our drive to doubling the global rate of improvement of energy efficiency.

Local governments have a key role to play!

The SE4All Building Efficiency Accelerator and Global District Energy in Cities Initiative welcome your support in achieving system efficiencies in the buildings sector.

Make your leadership known at the COP21 in Paris, Dec 2015!



Join the Initiatives

Buildings Efficiency Accelerator

World Resources Institute, WRI Ross Center for Sustainable Cities

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www.se4all.org/energyefficiencyplatform/building-efficiency/

For local governments interested in more information or to join as a partner, contact:

ICLEI- Local Governments for Sustainability

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