



ENERGY  
EFFICIENCY  
**TOOLKIT**  
FOR BUILDINGS



Webinar, December 5, 2016

# Introduction

Roland Hunziker  
Director, Sustainable Buildings  
and Cities, WBCSD

# Agenda

Introduction

Toolkit – presentation & illustration

1. Vision
2. Planning
3. Implementation
4. Evaluating and Measuring
5. Results and Feedback

Use of the toolkit in a city context

Questions and Answers



ENERGY  
EFFICIENCY  
**TOOLKIT**  
FOR BUILDINGS



# Building Efficiency Accelerator (BEA) partnership

Coordinating partner:



WORLD  
RESOURCES  
INSTITUTE

WRI ROSS CENTER FOR  
SUSTAINABLE  
CITIES

NGOs/Associations/Multilaterals:



wbcsd



International  
Energy Agency



International  
Finance Corporation  
WORLD BANK GROUP



PIONEERED BY THE  
ROCKEFELLER FOUNDATION



Service Providers/Companies:



# 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

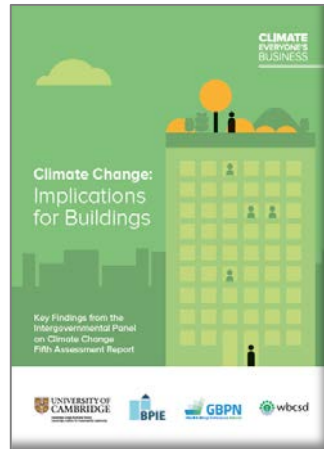
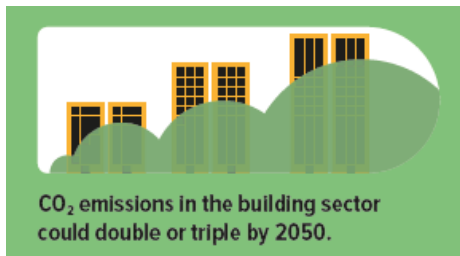
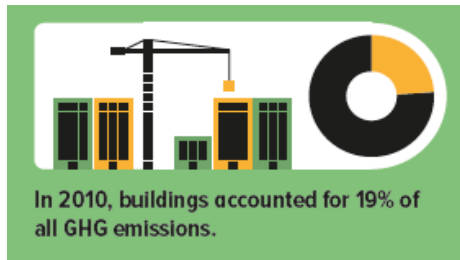
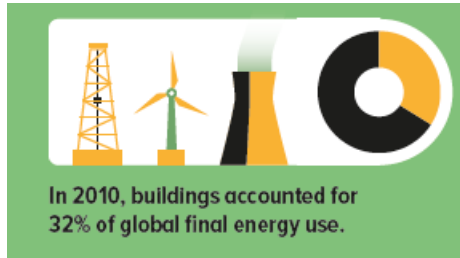
**Tracking &  
communication**

# Business Solutions for a Sustainable World



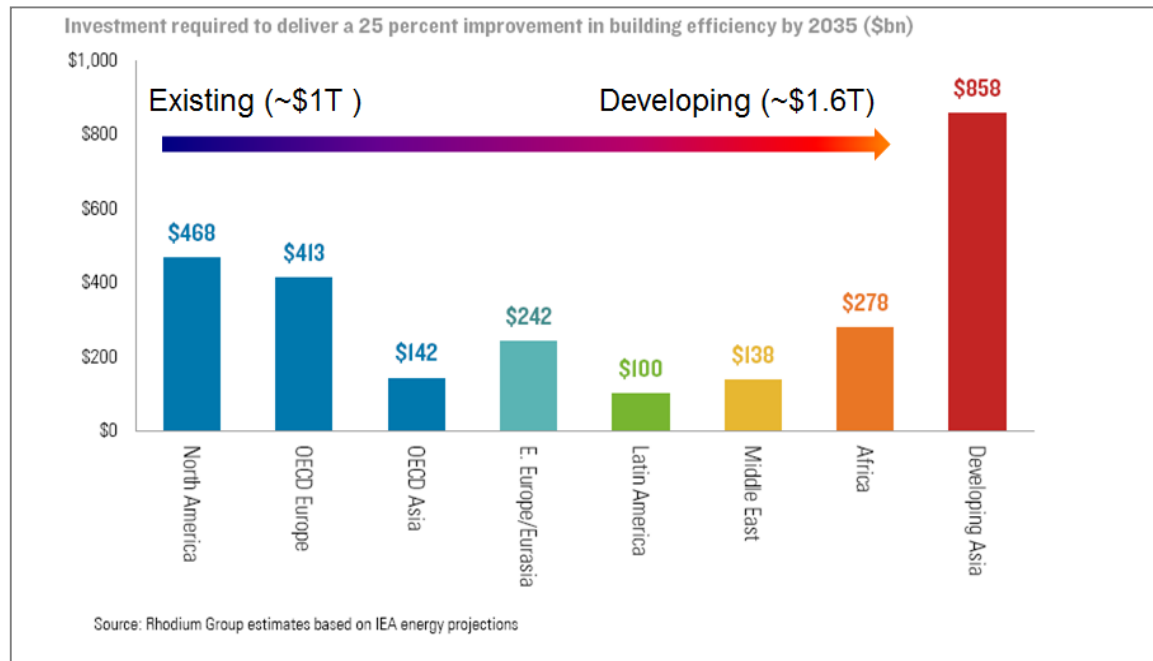


# Why Energy Efficiency in Buildings?



*An energy & climate imperative*  
**20% global GHG**

*A business opportunity for growth,  
which remains largely untapped*



# Energy Efficiency in Buildings 2.0 (EEB 2.0)

Engage local stakeholders to stimulate demand for **financially viable energy efficiency investments**

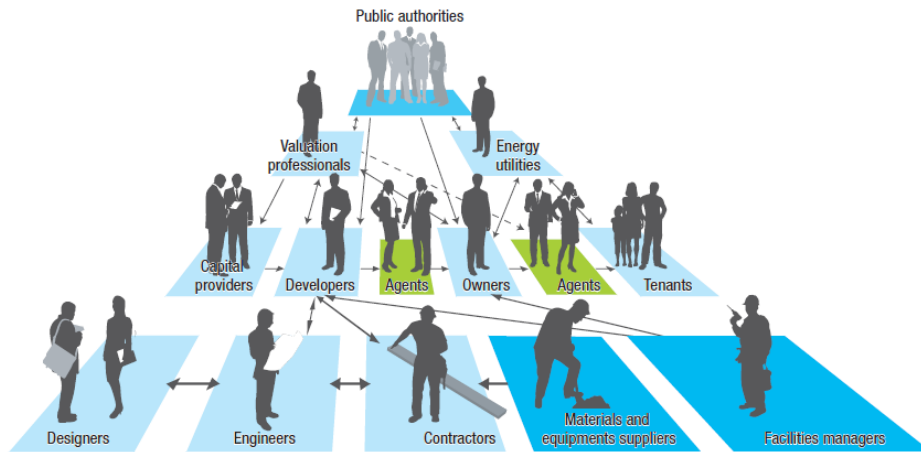


*Achieved through Private-Sector Leadership*



# EEB 2.0 Approach

Bringing together the value chain in local markets...



... to overcome market barriers

- Awareness and leadership
- Workforce capacity
- Financing
- Policy and regulation

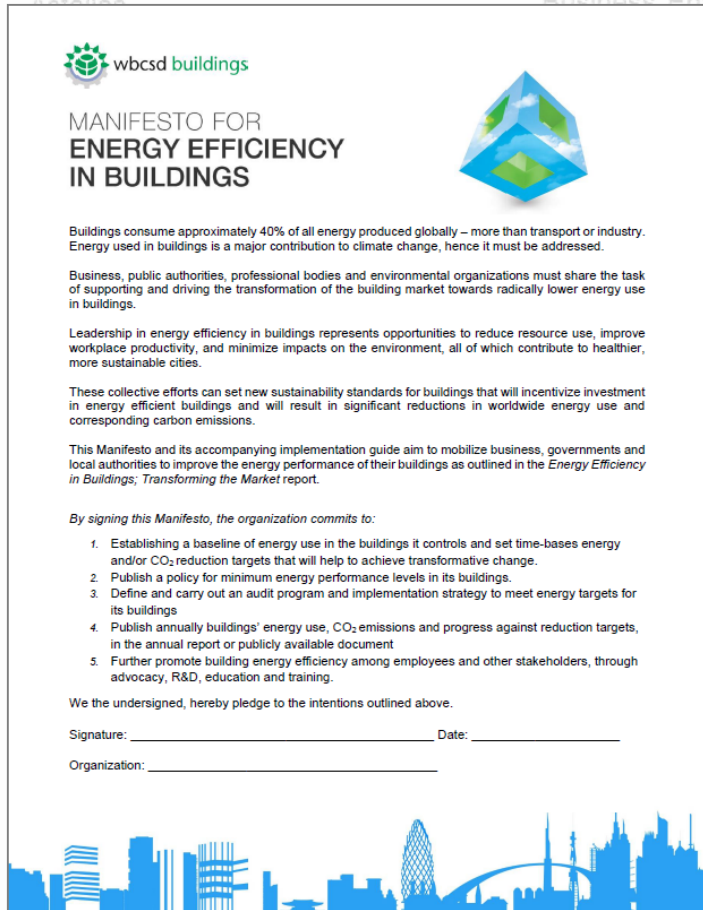
... to drive market activity & innovation

EEB platforms:



Energy Efficiency Networks –  
Bangalore & Jaipur

# WBCSD Members Call to Action



**wbcd buildings**

## MANIFESTO FOR ENERGY EFFICIENCY IN BUILDINGS

Buildings consume approximately 40% of all energy produced globally – more than transport or industry. Energy used in buildings is a major contribution to climate change, hence it must be addressed.

Business, public authorities, professional bodies and environmental organizations must share the task of supporting and driving the transformation of the building market towards radically lower energy use in buildings.

Leadership in energy efficiency in buildings represents opportunities to reduce resource use, improve workplace productivity, and minimize impacts on the environment, all of which contribute to healthier, more sustainable cities.

These collective efforts can set new sustainability standards for buildings that will incentivize investment in energy efficient buildings and will result in significant reductions in worldwide energy use and corresponding carbon emissions.

This Manifesto and its accompanying implementation guide aim to mobilize business, governments and local authorities to improve the energy performance of their buildings as outlined in the *Energy Efficiency in Buildings: Transforming the Market* report.


*By signing this Manifesto, the organization commits to:*

1. Establishing a baseline of energy use in the buildings it controls and set time-based energy and/or CO<sub>2</sub> reduction targets that will help to achieve transformative change.
2. Publish a policy for minimum energy performance levels in its buildings.
3. Define and carry out an audit program and implementation strategy to meet energy targets for its buildings
4. Publish annually buildings' energy use, CO<sub>2</sub> emissions and progress against reduction targets, in the annual report or publicly available document
5. Further promote building energy efficiency among employees and other stakeholders, through advocacy, R&D, education and training.

We the undersigned, hereby pledge to the intentions outlined above.

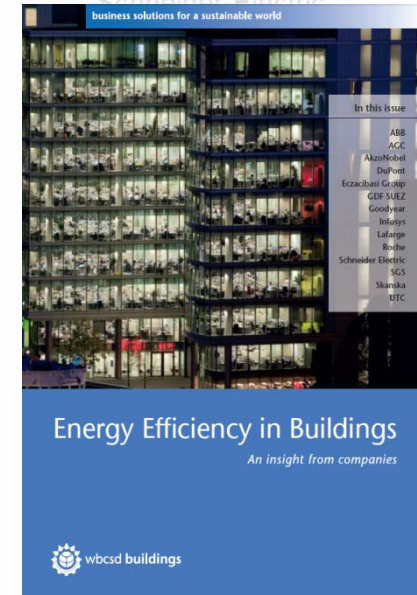
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Organization: \_\_\_\_\_



## 26 case studies

On the business case, the barriers and opportunities



## ENERGY EFFICIENCY TOOLKIT FOR BUILDINGS

Masisa  
Metsäliitto Group

Votorantim Cimentos  
WBCSD

**140+ signatories**