



**Building Efficiency  
Accelerator**



**GLOBAL ENERGY EFFICIENCY  
ACCELERATOR PLATFORM**

# Introduction to the SEforALL Building Efficiency Accelerator

*July 2017*



WORLD  
RESOURCES  
INSTITUTE



GLOBAL ENVIRONMENT FACILITY  
INVESTING IN OUR PLANET



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.



# Energy Efficiency Accelerators

The Global Energy Efficiency 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



**Members:** government, private and non-profit organisations and programmes

## Three Common Global Objectives:

- **Communication:** Raise awareness & make visible the magnitude of the opportunities and impacts in the buildings sector.
- **Collaboration:** Public policies, market transformation, foster partnerships, sharing know-how and improving access to efficient financing and funding.
- **Solutions:** Offering programs to put the buildings sector on a below 2° C path

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





# 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



# Building Efficiency Accelerator (BEA) partnership

Coordinating partner:



WORLD  
RESOURCES  
INSTITUTE

WRI ROSS CENTER FOR  
SUSTAINABLE  
CITIES

NGOs/Associations/Multilaterals:



WORLD  
GREEN  
BUILDING  
COUNCIL



World Business Council for  
Sustainable Development



International  
Finance Corporation  
WORLD BANK GROUP



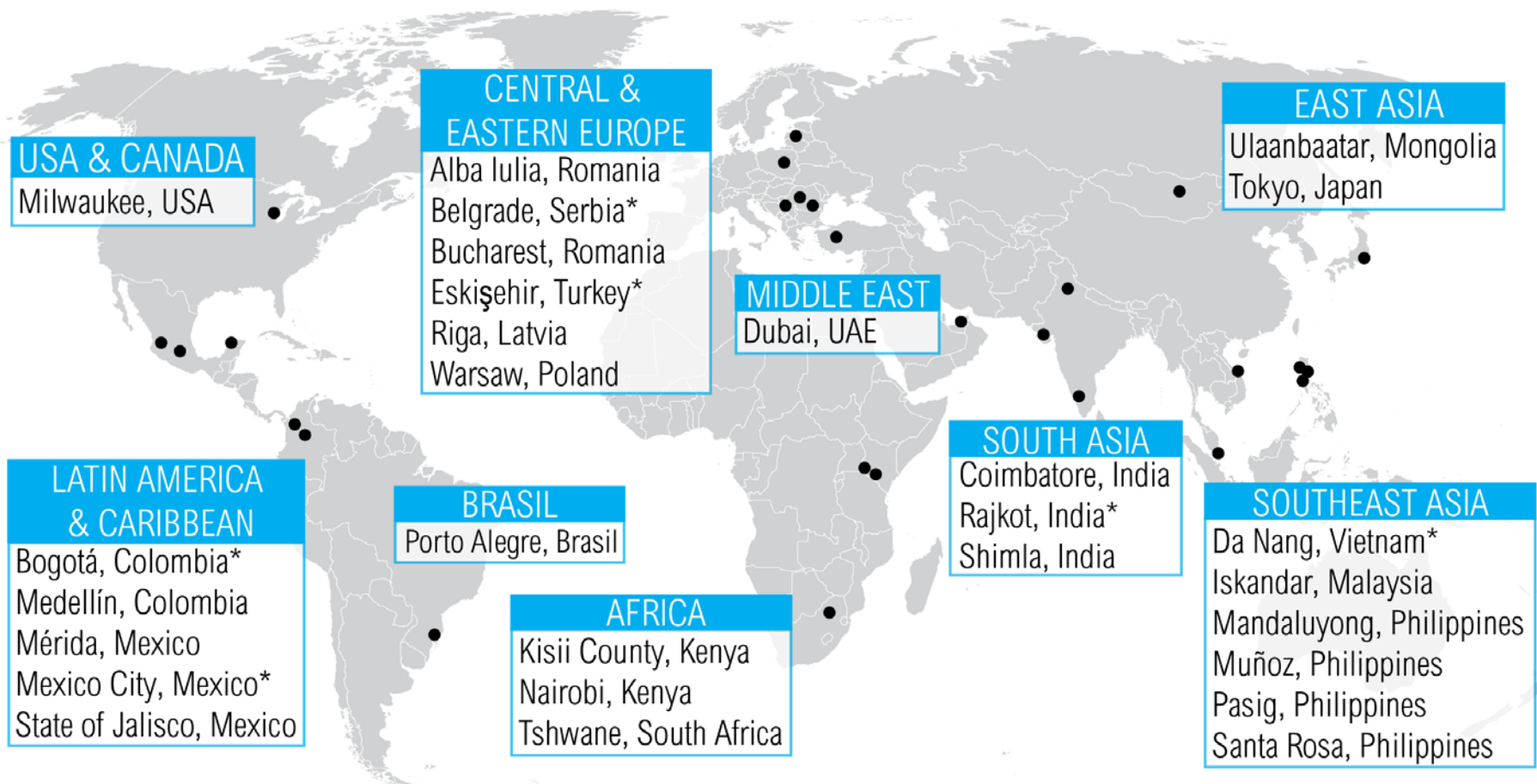
PIONEERED BY THE  
ROCKEFELLER FOUNDATION



Service Providers/Companies:



# BEA Partner Jurisdictions



\*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**

**Policy**

Implement one  
demonstration **project**

**Project**

Create a baseline, **track and report** annual progress, and **share experiences** with other governments

**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.



## More Information

**We welcome new business, NGO, and government partners!**

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

*World Resources Institute, WRI Ross Center for Sustainable Cities*

Debbie Weyl, [Debbie.Weyl@wri.org](mailto:Debbie.Weyl@wri.org)

Eric Mackres, [EMackres@wri.org](mailto:EMackres@wri.org)

**[BuildingEfficiencyAccelerator.org](http://BuildingEfficiencyAccelerator.org)**



**Building Efficiency**  
Accelerator

# TRACKING BUILDING EFFICIENCY PROGRESS IN CITIES

An Example Method from the BEA



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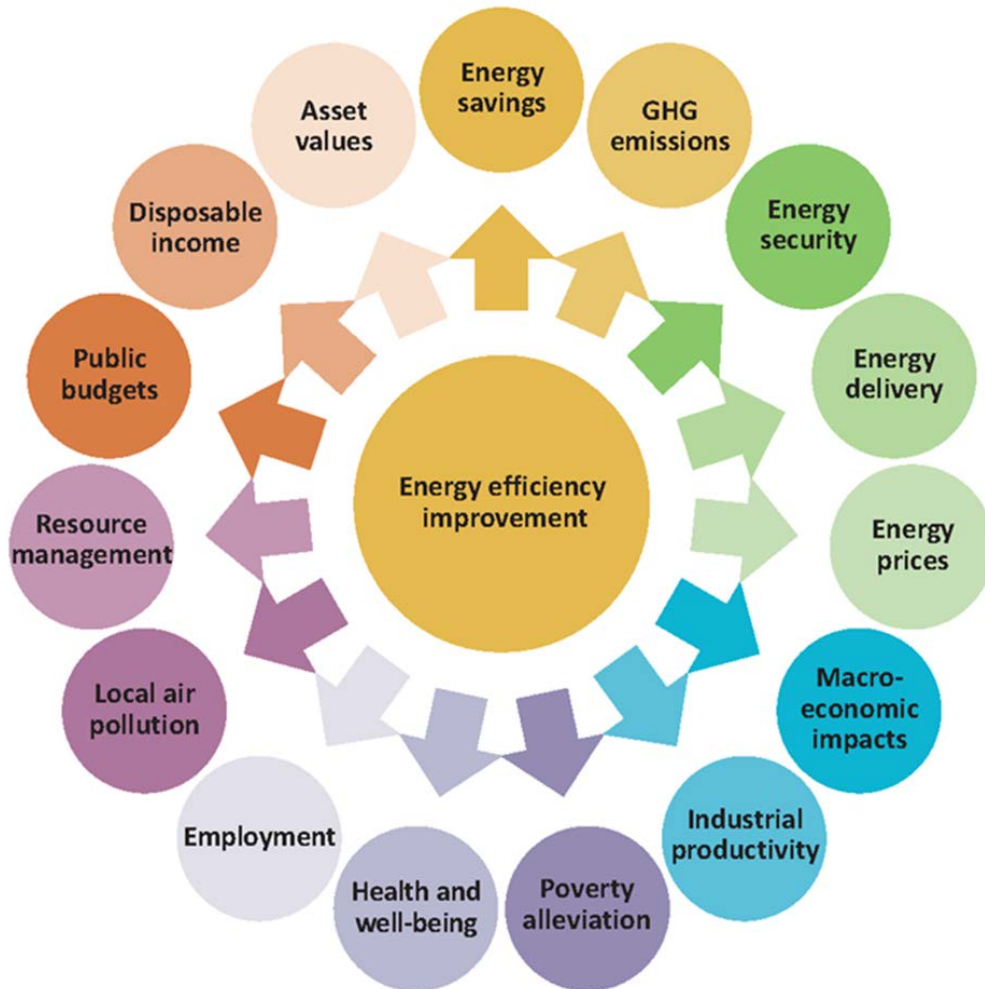
International  
Energy Agency



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# The Multiple Benefits of Energy Efficiency (IEA)



## *Energy Efficient Prosperity*

Energy efficiency as  
a means to support  
economic and social  
development



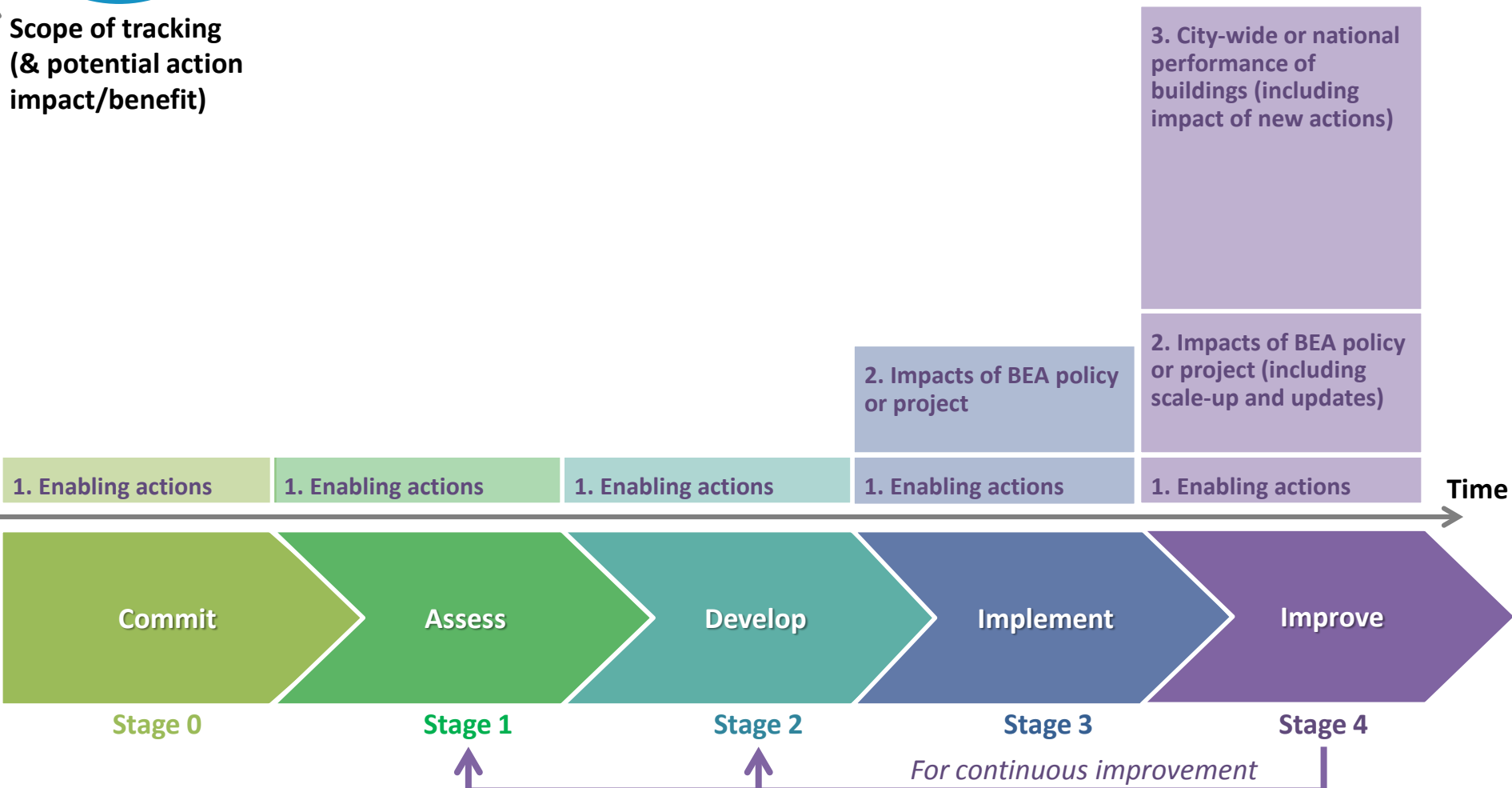
# Why tracking the impacts of BEA actions?

- Understand effects of policies/projects
- Communicate progress towards goals
- Accountability and transparency
- Improving efforts and scaling up projects

# Tracking progress in the BEA City Action Process

## Three types of progress to track

Scope of tracking  
(& potential action  
impact/benefit)

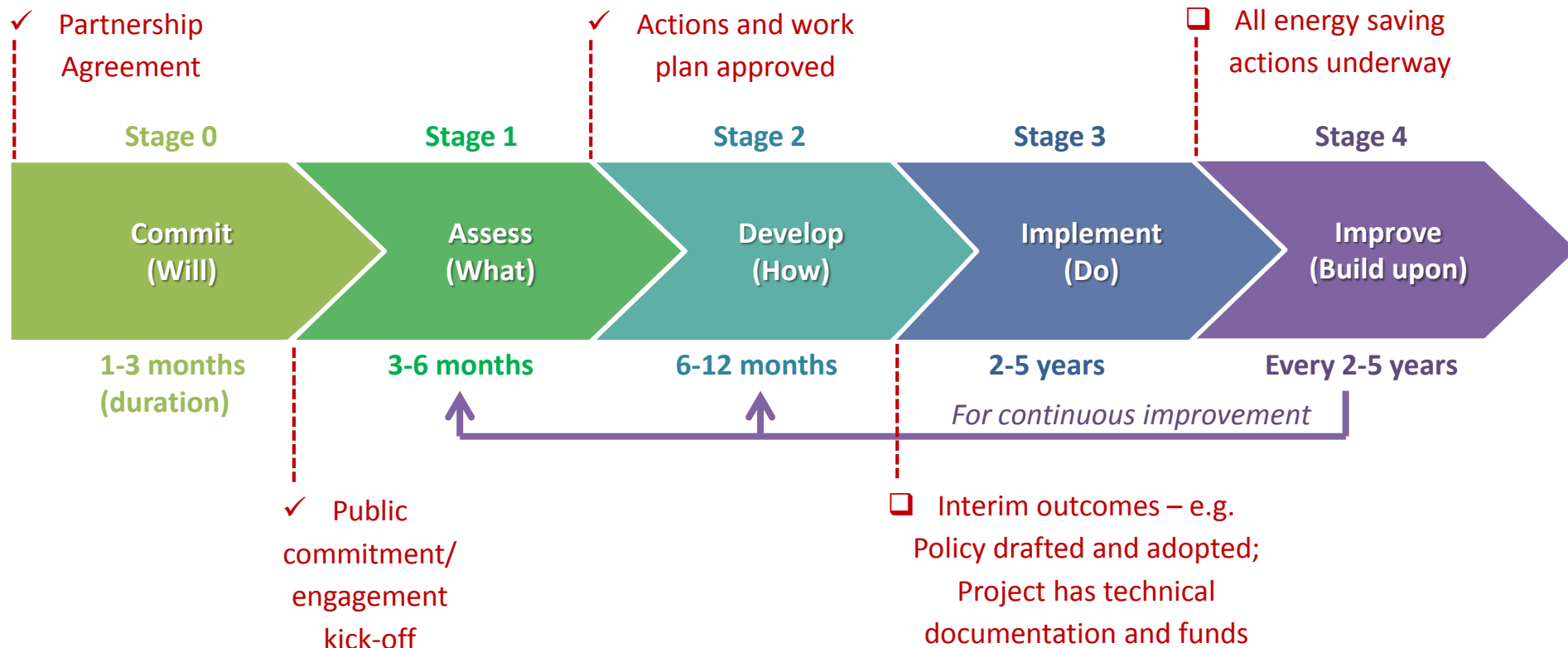


# Tracking progress in the BEA City Action Process

## Progressing between stages

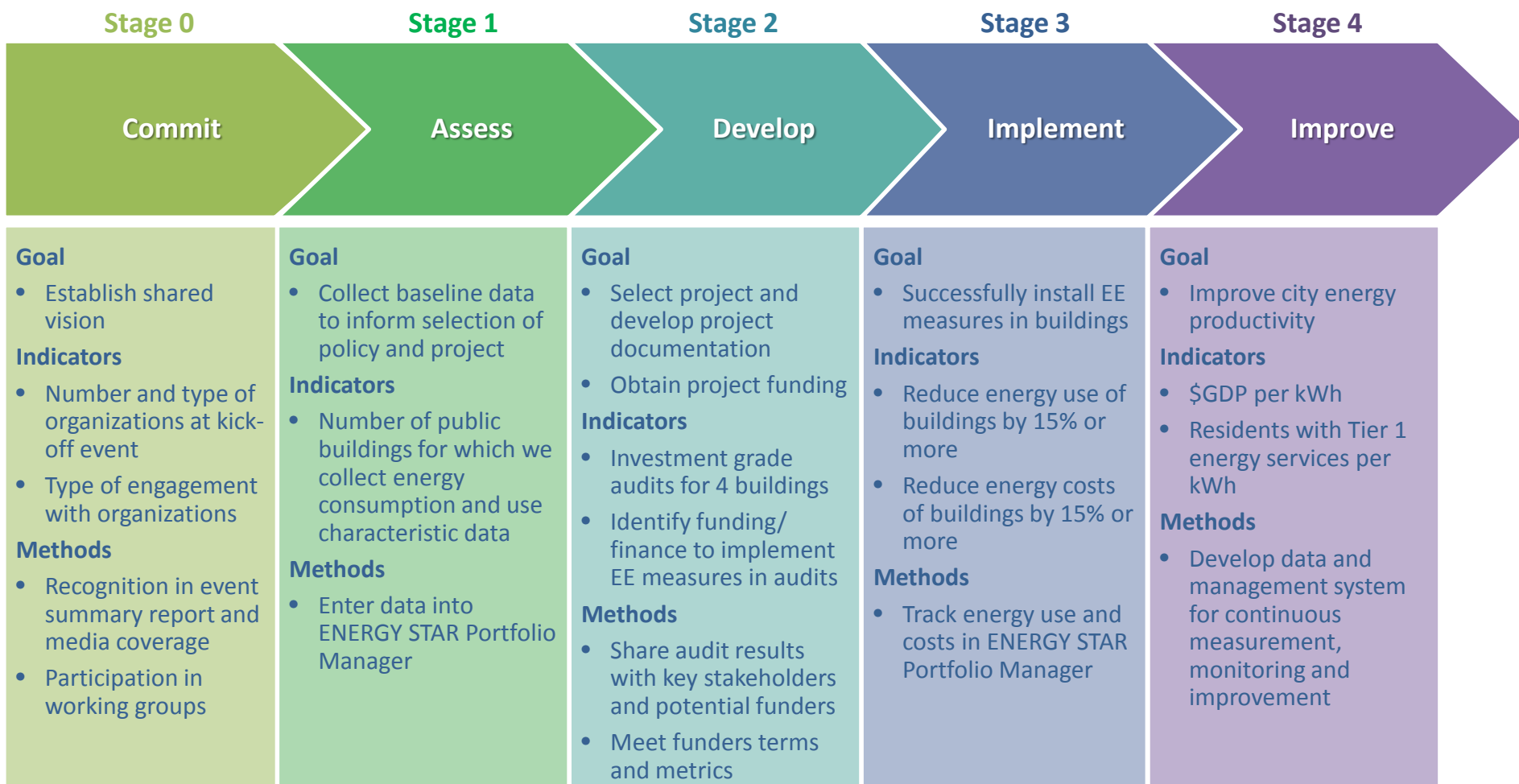
**Starting status:**  
*Limited building  
efficiency action in city*

**BEA 2030 vision:**  
*Doubled energy efficiency  
improvement in city*



# Tracking progress steps in the BEA City Action Process

## Potential goals, indicators and methods at each stage





# BEA Tracking Progress Template

Recording and sharing goals, indicators, methods, and outcomes

Jurisdiction name: _____ Date updated: _____				
	Step 1. Identify what you want to track and how you will do so			Step 2. Track your results
	<b>Goals:</b> What do you want to achieve? (address both your policy and project actions)	<b>Indicators:</b> How will you measure your achievements?	<b>Methods:</b> How will you track and report your achievements?	<b>Outcomes:</b> What have you achieved so far?
Stage 0. Commit				
Stage 1. Assess				
Stage 2. Develop				
Stage 3. Implement				
Stage 4. Improve				

# Additional BEA Resources

- [Tracking Progress Template](#) identifies the suggested BEA format and steps to develop tracking progress method
- [Tracking Progress Framework](#) provides guidance on selecting *goals and indicators* based on types of actions.
- [Tracking Progress Resource Collection](#) provides *tools and methods* for tracking and reporting progress.
- [Tracking Progress Webinar](#), recorded in April 2017, walks through the Tracking Progress Template and an example of use in a city.

## Building Efficiency Accelerator: Tracking Progress Resource Collection

The [Building Efficiency Accelerator](#) (BEA), part of the Global Efficiency Accelerator Platform under the [United Nations' Sustainable Energy for All](#) (SEforALL) Initiative, is a multi-stakeholder network made up of over 30 businesses and organizations that work with local and sub-national governments in order to increase the uptake of energy efficiency policies and programs in the building sector.

The BEA connects the expertise of its wide partner network to its subnational stakeholders. With this purpose, the BEA has compiled resources to assist subnational jurisdictions in prioritizing and implementing building efficiency actions. This page contains the growing collection of resources and BEA webinars related to **Tracking Progress**. All previous BEA webinars can be accessed [here](#).

### Collection items:

#### [Benchmarking and Energy Saving Tool for Low Carbon Cities \(BEST\)](#)

Tool / Instrument

The tool is designed to provide city authorities with strategies they can follow to reduce city-wide CO2 and CH4 emissions.

#### [Building Energy Optimization \(BEopt™\)](#)

Tool / Instrument

BEopt is a software tool that can evaluate residential building designs and identify cost-optimal efficiency packages at various levels of whole-house energy savings along the path to zero net energy.

#### [Building Energy Performance Metrics: Supporting Energy Efficiency Progress in Major Economies](#)

Publication / Report

A report indicating the metrics data needed to measure the progress and identify opportunities for improvement in building energy performance.

#### [ClearPath](#)

Tool / Instrument

ClearPath is a cloud based-tool for energy and emission management. It can forecast multiple scenarios for future emissions, analyse the costs and benefits of emissions reduction measures, visualize alternative planning scenarios etc.

#### [Co-Benefits Risk Assessment \(COBRA\)](#)

Tool / Instrument