



# Global Energy Efficiency Accelerator Platform: Our Offer



COPENHAGEN CENTRE  
ON ENERGY EFFICIENCY  
SE4ALL EE HUB

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Energy Efficiency in Sub-Saharan African Cities

26-27 October 2015

Nairobi, Kenya

# Sustainable Energy for All

A unique partnership between international organizations, city, region and country governments, and the private sector

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.

# SE4ALL Flagship Programmes

## □ Country Actions

- For energy access, renewable energy and energy efficiency

## □ Global Energy Efficiency Accelerator Platform

- Multi-stakeholder partnership to advance energy efficiency implementation
- Engagement mechanism for countries, cities and other jurisdictions
- Supported by the Global Environment Facility (GEF)

## □ High Impact Opportunities

- 50 HIOs in 11 action areas (covering all objectives)



# Copenhagen Centre for Energy Efficiency (C2E2)

SE4ALL Hub for Energy Efficiency

Secretariat of the Global Energy Efficiency Accelerator Platform

# What is the Copenhagen Centre on Energy Efficiency (C2E2)?

- A research and advisory institution dedicated to accelerating the uptake of energy efficiency policies, programmes and actions globally.
- Acts as the **Energy Efficiency Hub of the Sustainable Energy for All (SE4ALL) Initiative**, and the Secretariat of the **Global Energy Efficiency Accelerator Platform**.
- **Key Work Paths:**
  - Accelerated adoption of energy efficiency policies, programmes and actions at national and sub-national level
  - Support for Integrated Policy and Investment Roadmaps for SE4ALL
  - Technical assistance designed to mobilise and grow local concepts, activities in energy efficiency
  - Get projects to an operational, investible stage



# Key C2E2 action areas for technical support

**Capacity building  
in target countries**

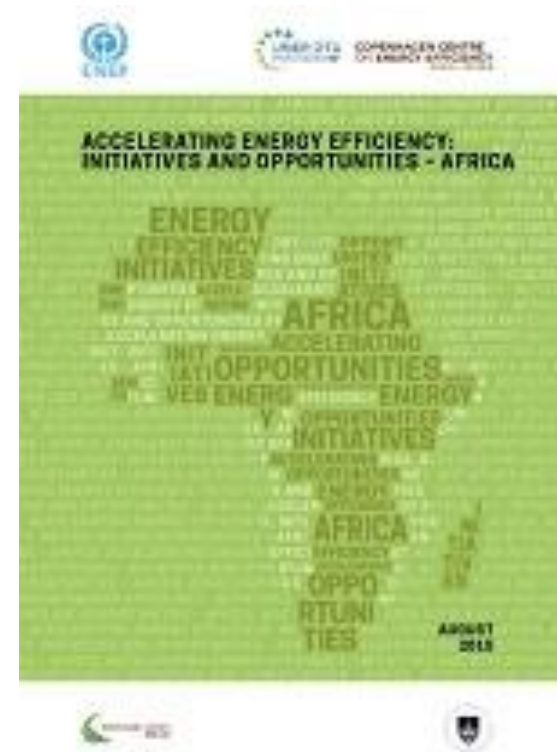
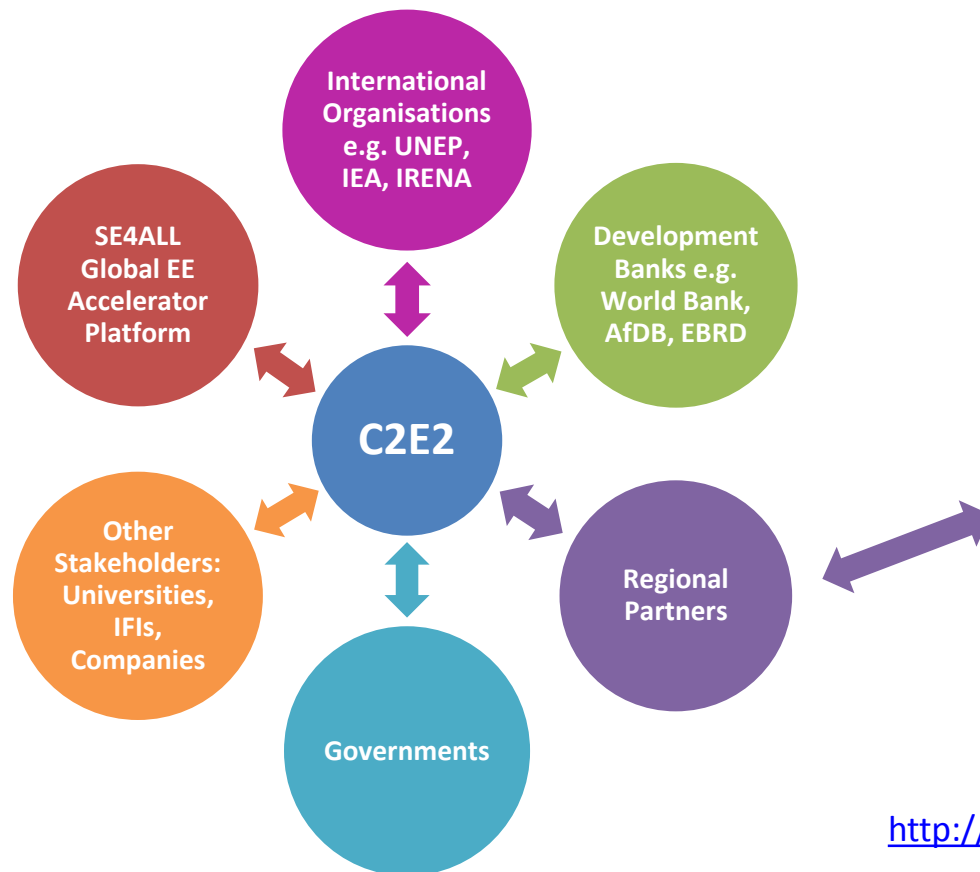
**Private sector  
engagement**

**Championing EE  
and SE4ALL  
objectives**

**Finance  
mechanisms**

**Knowledge + data  
platform**

# Who does the C2E2 Hub work with?



<http://www.energyefficiencycentre.org/Publications>

# The Global Energy Efficiency Accelerator Platform in concept

- Many city, sub-national and national governments have ambitions to advance energy efficiency, but do not always have capacity to formulate plans to take advantage of the opportunities, or the partners to implement and finance initiatives
- The Accelerator Platform offers to opportunity to build networks, access information, and identify partners to advance energy efficiency goals in priority sectors
- **We are actively recruiting government jurisdictions to join one or more sectoral Accelerators**



# How do jurisdictions benefit from joining an Accelerator?

## New partners for implementing energy efficiency

- Development of shared vision and agenda
- Private sector commitments to local efficiency improvement
- Collaboration across government ministry “silos” (horizontal) and between national and subnational government (vertical)
- Knowledge exchange with peer cities and global partners

## Technical assistance

- stakeholder engagement
- policy prioritization
- tracking progress
- identifying funding for policies and projects

## International recognition



# More benefits and opportunities for cities through joining the Accelerator Platform

- Awareness about availability of EE opportunities
- Capacity building and legislative, regulatory and policy advice
- Formulation and implementation of plans and investment projects
- Opportunities to establish PPPs, collaborate and work with a variety of EE stakeholders including experts, institutions and private businesses
- Access to a variety of resources including tools kits, databases, publications and others
- Finance facilitation for energy efficiency projects
- SE4ALL branding to engage various stakeholders, both in public and private sector

# The Individual Energy Efficiency Accelerators making up the Platform

## Transport and Motor Fuel Efficiency

Improve the fuel economy capacity of the global car fleet



## Lighting

Global market transformation to efficient lighting



## Appliances & Equipment

Global market transformation to efficient appliances & equipment



## Building Efficiency

Promote sustainable building policies & practices worldwide



## District Energy

Support national & municipal governments to develop or scale-up district energy systems



## Industrial Energy Efficiency

Implementing Energy Management Systems, technologies & practices



## Power Sector

Improving the efficiency of generation, transmission, distribution & end-use



## Finance

Accelerating investment in energy efficiency





# Building Efficiency Accelerator



WORLD  
RESOURCES  
INSTITUTE

WRI ROSS CENTER FOR  
SUSTAINABLE  
CITIES



COPENHAGEN CENTRE  
ON ENERGY EFFICIENCY  
SE4ALL EE HUB



SUSTAINABLE  
ENERGY FOR ALL

# Partners

## Coordinating partners:



WORLD  
RESOURCES  
INSTITUTE

WRI ROSS CENTER FOR  
SUSTAINABLE  
CITIES

## Cities:

Mexico City, Milwaukee, Toyama, Warsaw

*Actively recruiting new partner cities!*

## NGOs/Associations:

Global Buildings Performance Network  
Global Green Growth Forum  
ICLEI  
UN Environment Programme  
UN Foundation  
US Green Building Council  
World Business Council for Sustainable Development  
World Green Building Council

## Companies:

Accenture  
Alstom  
China Energy Conservation and Environmental Protection Group (CECEP)  
Danfoss  
Johnson Controls  
Philips  
Saint-Gobain  
TECNALIA



# Building Accelerator Goals: what are cities signing up to do?

## Overarching commitment

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

Implement one enabling **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**



# Menu of policies for building efficiency

## Codes

- Building codes to establish minimum requirements of energy performance.

## Targets

- Targets to align interests and spur action in the building sector.

## Government Leadership

- Programs to support government efficiency, including public building retrofits and innovative procurement.

## Benchmarking & Disclosure

- Policies that generate data, baselines, and disclosure to support transparent building performance to the market.

## Financial Mechanisms

- Programs and incentives to provide funding to building efficiency improvements.

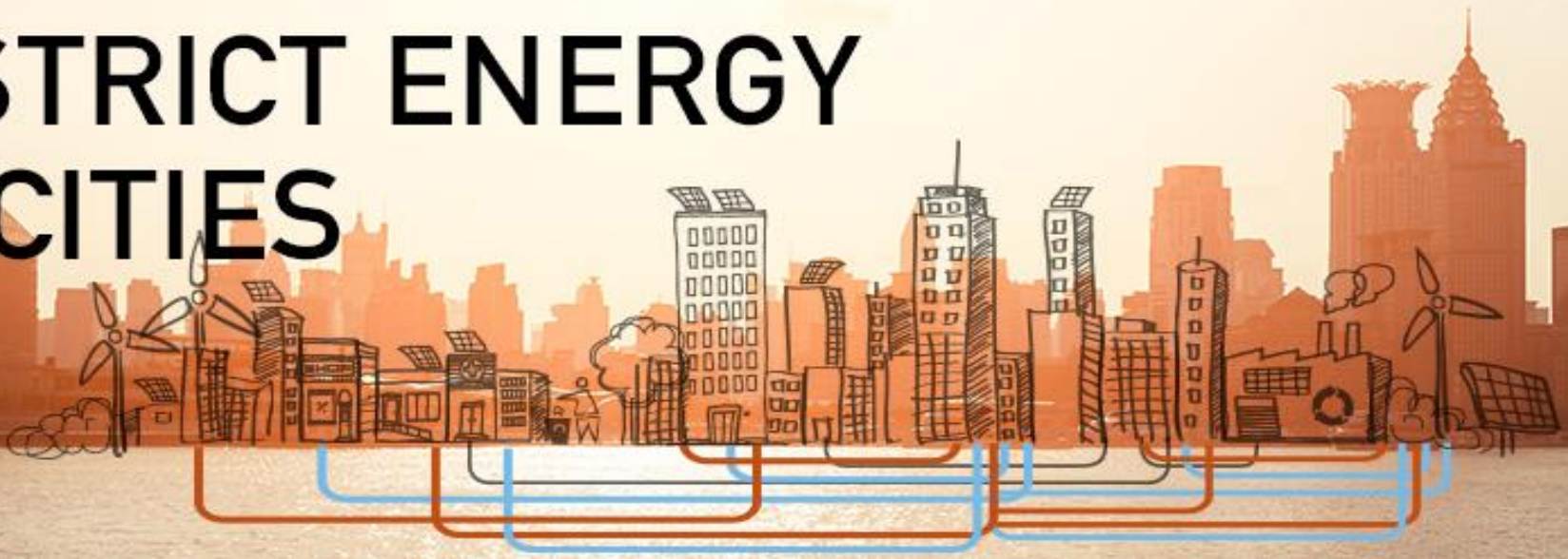
## Utility Actions

- Planning and programs for utility companies for energy efficiency progress.

## Certifications

- Certifications including green buildings that allow market differentiation of key environmental attributes.

# DISTRICT ENERGY IN CITIES



## District Energy Accelerator

## Partners and supporters of the Initiative



GDF SUEZ devient ENGIE



**VATTENFALL**



## Scope of activities

Leveraging the partnerships and expertise

**5 International  
Organizations**

**6 Industry  
Associations**

**8 Private Sector  
Companies**

**27 Local and National  
Governments**

### **Technical Assistance**

Pre feasibility and feasibility studies.  
Metering equipment.

### **Demonstrations activities**

Local planning policies.  
Local and national support programmes.  
Regulatory frameworks.  
Tariff structures.

### **Successful Market Transformation**

### **Awareness raising**

Study tours  
Assistance in negotiations.  
Public consultations.

### **Capacity Building + Knowledge Transfer**

Best practice sharing.  
Training workshops.  
Heat planning.  
Local coordination development



**en.lighten**

**Efficient Lighting for Developing and Emerging Countries**

# Lighting Efficiency Accelerator

# Appliances and Equipment Accelerator





# en.lighten initiative: UNEP



- Established 2010
- Public-Private Partnership
- Incandescent lamp phase-out
- 67 country partners
- National/Regional Efficient Lighting Strategies
- SE4ALL high impact activity





# Efficient Appliances & Equipment – taking the en.lighten approach to the *next low hanging fruits*



UNDP, ICA, CLASP, NRDC and UNEP launched the United for Efficiency (U4E) in 2014

The Programme aims to join forces with private and public sector to expand the en.lighten approach to the next *high impact opportunities*,

The en.lighten and U4E initiatives form part of the SE4ALL Energy Efficiency Accelerators on Lighting and Appliances & Equipment

# Integrated Policy Approach to Transforming Markets



Minimum Energy  
Performance  
Standards



Monitoring, verification and enforcement  
programmes discouraging non-compliant  
products

## Supporting policies

promoting demand for efficient products  
incl. innovative financing mechanisms,  
loans and grants



Successful market  
transformation

## Environmentally sound life-cycle management

mercury, electronic waste, ozone depleting  
substances...

Country assessments  
of potential savings &  
policy readiness

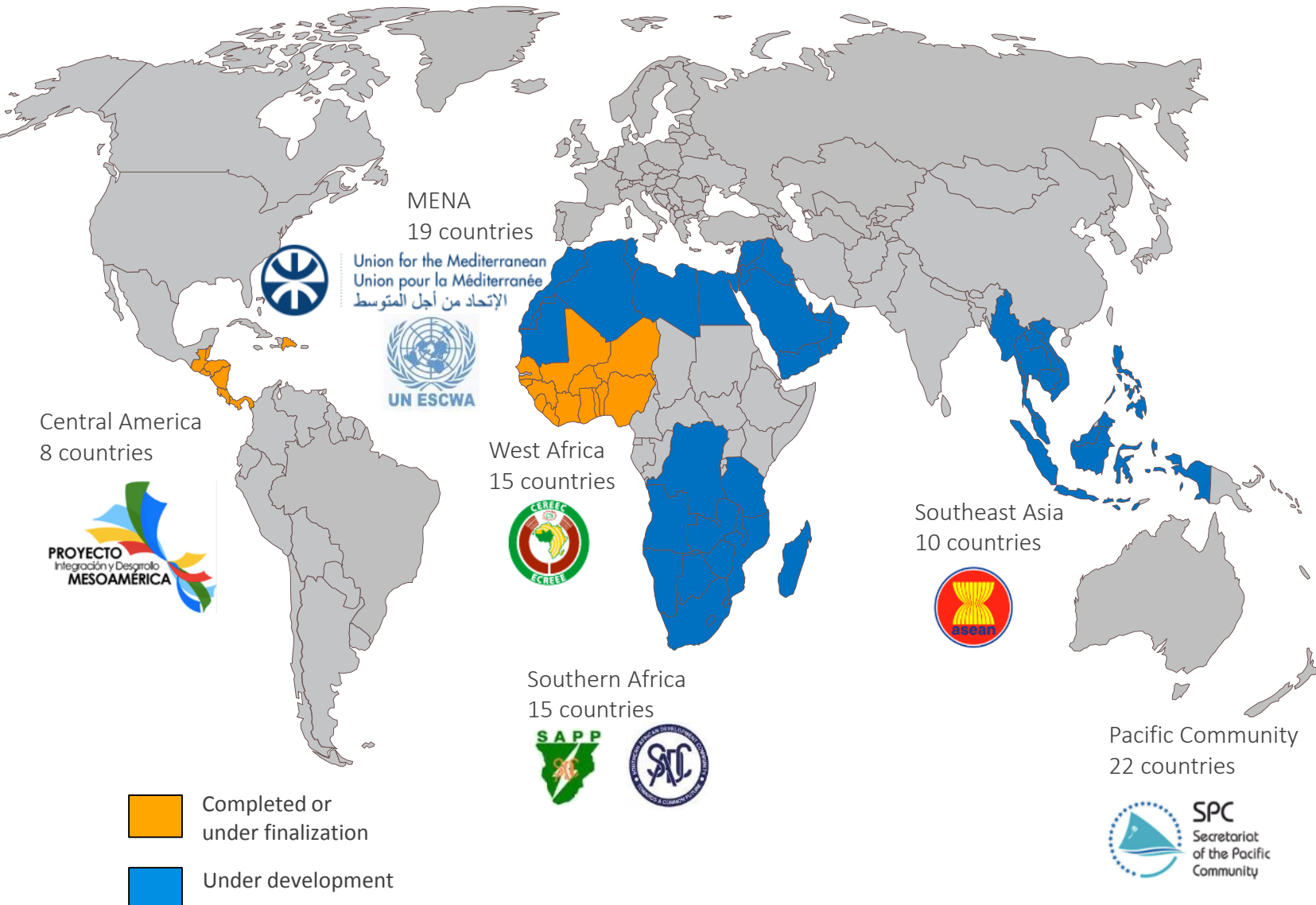
Global  
consensus on  
best practice  
policies

Gain  
political  
commitment  
from countries  
and regions

Implement  
national &  
regional product  
policies



# Support to Regional Harmonization for Efficient Lighting, Appliances, and Equipment





# Vehicle Fuel Efficiency Accelerator

# Vehicle Fuel Efficiency Accelerator

The Global Fuel Economy Initiative (GFEI) was established in 2009 with the primary aim to:

- reduce emissions
- at least double the efficiency of the global vehicle fleet from an average of 8L/100 km in 2005 to 4L/100 km by 2050
- halve new light duty vehicle fuel economy (in l/100km or gCO<sub>2</sub>/km) by 2030

Governments joining the GFEI are committing to develop national fuel economy policies. More than 40 countries have joined

## Instruments Supported

Regulatory policies: National Standards, Import Restrictions, Technology Mandates

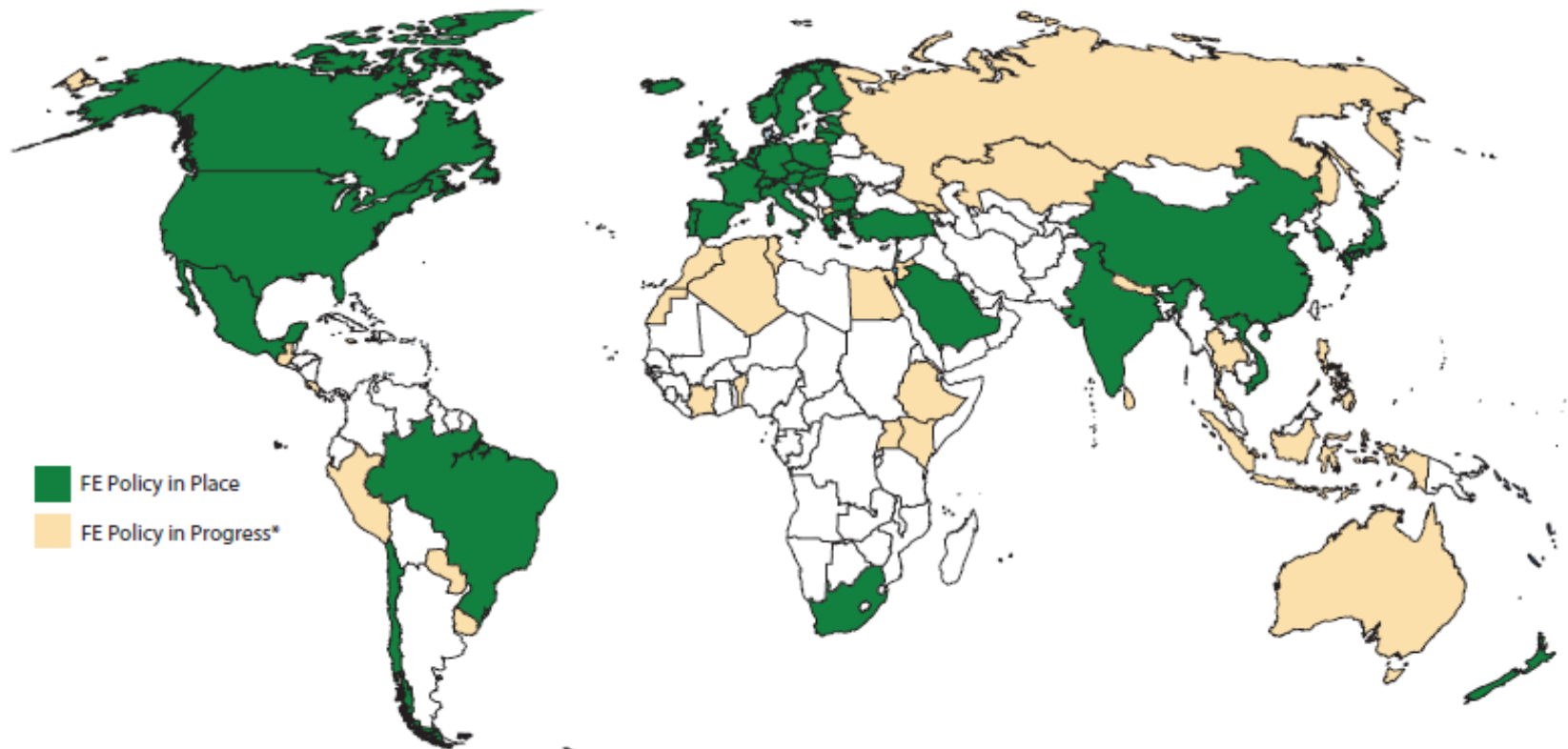
Economic instruments, Traffic control measures, Information Technology



Expected savings: 1 Gt CO<sub>2</sub> by 2025 and 2 Gt CO<sub>2</sub> - by 2050

## Support from other non-OECD countries is critical in order to achieve GFEI target

## Global Progress on Fuel Economy Policy (2015)



\* GFEI partners are involved in supporting all these countries except in Brasil  
June 2015 - For more information visit [www.globalfueleconomy.org](http://www.globalfueleconomy.org)

### Global Fuel Economy Initiative (GFEI)



# OTHER GFEI SUPPORTERS



# Industrial Energy Efficiency Accelerator: Structure and Building Blocks



# 4 Principal Offerings of the Industry Accelerator

## Support for development and formulation of EE policies

Integrated policy and investment roadmap that provides innovative tools and instruments to promote successful policies under local circumstances at regional, national, and subnational levels

## Capacity building for adoption of EnMS

Training of public and private officials via “train the trainer” approaches, and on-the-ground region and sector-specific pilots

## Financing solutions for the development and implementation of Accelerator goals

Financial institutions mainstream EE financing into standard loan operations, coupled with technical and EnMS implementation assistance

## Knowledge-sharing and information dissemination

Platform for knowledge exchange for best practices in policy design and implementation, fostering south-south collaboration to address information barriers

# New Accelerators

- Work underway to bring together key partnerships for other key sectors and enablers of energy efficiency
  - Finance
  - Power Sector
  - others...
- Platform Secretariat assisting to bring together participating governments and private sector partners, define Accelerator offerings, secure resources and communicate results

# In Summary

- As the flagship EE initiative of SE4ALL, the Global Accelerator Platform is a unique multi-stakeholder partnership model
- Cities and countries can use the Platform to get informed, get connected and get involved in better realizing priority EE opportunities
- The Platform Secretariat hopes to assist cities and countries in this engagement process, and to foster synergies across sectors

**We welcome your engagement to advance energy efficiency**

# Thank You

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