



SUSTAINABLE
ENERGY FOR ALL

SUSTAINABLE ENERGY FOR ALL

Luis Gomez-Echeverri

Senior Advisor, SE4All and EE Team Leader

Dakar, October 19-20, 2015

Sustainable Energy for All Goal

One Goal:

Achieving Sustainable Energy for All by 2030

Three Targets :



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 Energy Efficiency Platform

The **Global Energy Efficiency Platform** was established by SE4All to promote the objective of doubling the rate of energy efficiency improvement by 2030.

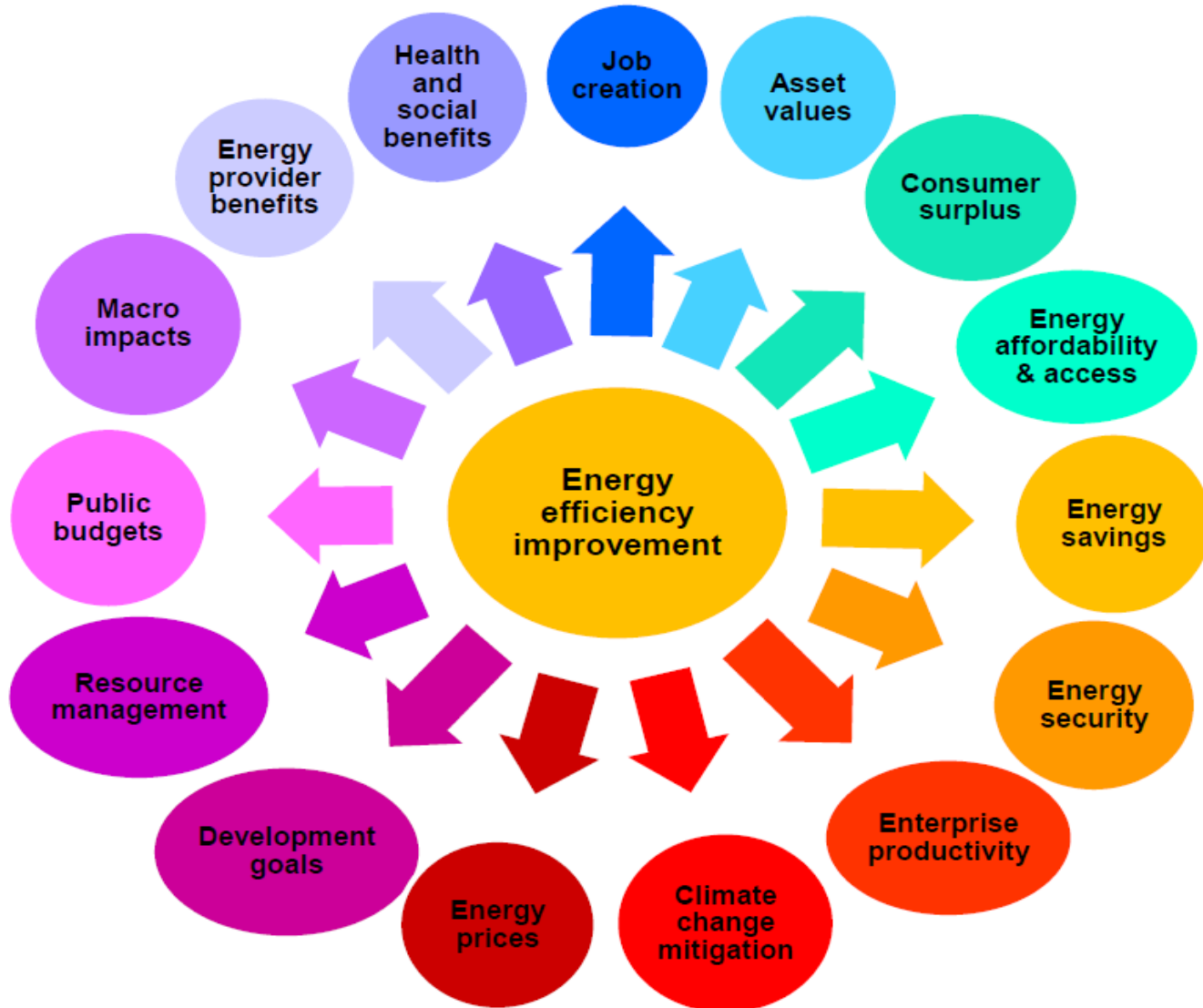
The Platform **drives and supports action and commitments in six key energy intensive sectors – Accelerators** - by national and sub-national leaders at the country, city, state, regional levels.

A key deliverable of the Platform in each jurisdiction where it engages will be an **Action Plan/ Roadmap that describes the priorities, needs and efforts** that will be taken in order to achieve the energy efficiency improvements. **One of the main purposes of this workshop is to identify those jurisdictions interested to engage in the preparation an Energy Efficiency Action Plan/Road Map.**

The Roadmaps will also be used by SE4ALL to **mobilize support from a global network of experts, institutions and businesses** participating in this major global initiative.



Energy Efficiency has many benefits



Source: IEA



... and EE helps address some of the cities' biggest challenges

- Urban Systems – Infrastructures; resource intensive (energy, water, materials and land); Difficult and costly to modify.
- Traffic congestion - Inadequate road & transport infrastructures - cost can be as high as 10% of the city's GDP.
- Typical buildings – non-energy efficient - can account for 40% of a city's total energy use and 30% of GHG emissions.
- Expansion of infrastructures (rapid urbanization; fast economic growth; increased competitiveness, etc.).
- The way a city is planned, designed, operated and maintained will influence its future energy use and emissions (GHG & pollutants).

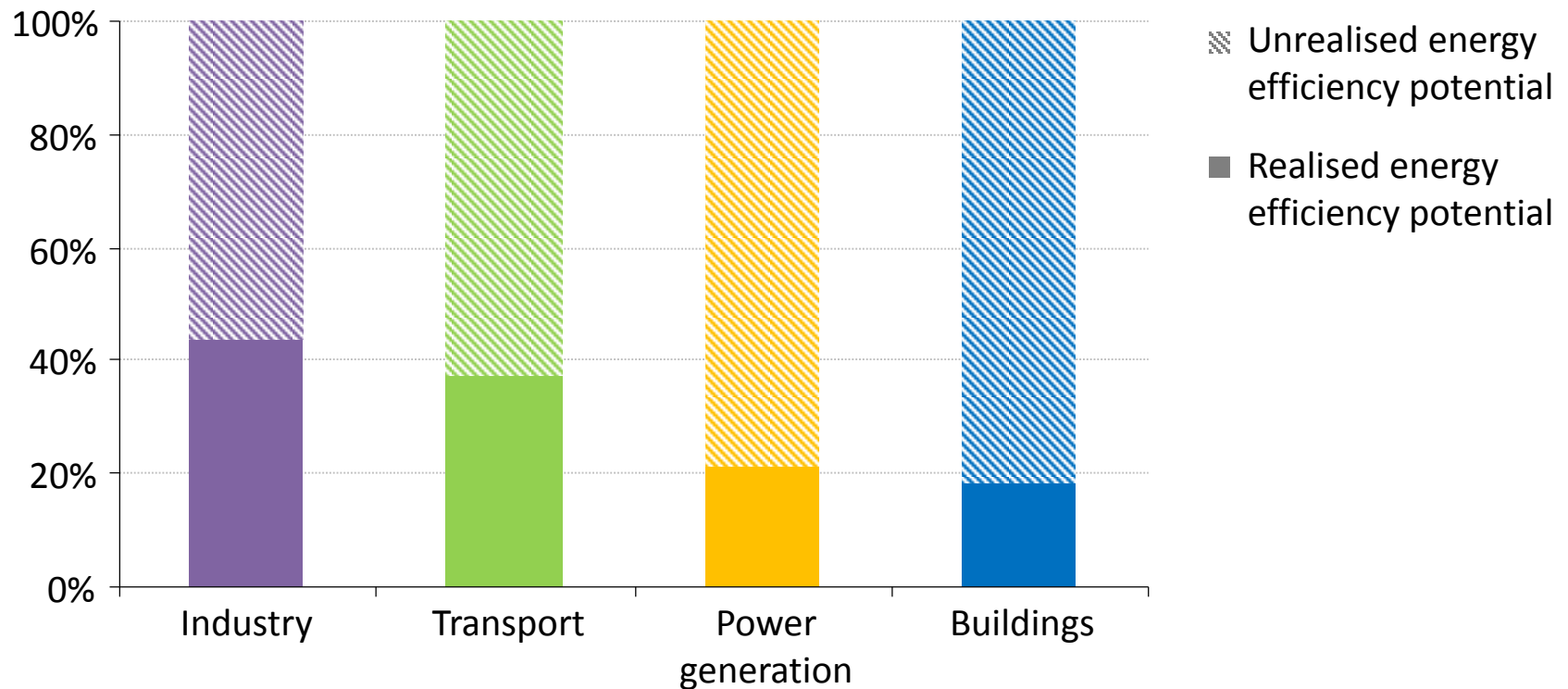


Buildings - a good example

- Best-practices in technology use and design can save up to 90% of buildings energy use.
- Global thermal energy use in buildings can be reduced by approx. 1/3 by 2050, even with the projected growth of buildings.
- If only moderate policy efforts are made, building energy use is expected to almost double by 2050, locking in about 80% of potential energy savings for decades
- Energy policies focused on increasing EE in buildings can promote innovation, generate economic opportunities, support creation of green jobs, reduce maintenance and operation costs over buildings' lifetime, raise the overall standard of living, and improve human well-being, comfort and health



Up to 2/3 of EE Potential Remains Untap



Energy Efficiency Platform: Partner Network (to date)



- 2 Global Facilitation Offices - Vienna and New York
 - 10 SE4All Regional and Thematic Hubs supporting all SE4All activities worldwide
 - 1 Energy Efficiency Hub in Copenhagen
- Hundreds of practitioners on the ground



Energy Efficiency Accelerator Sectors

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



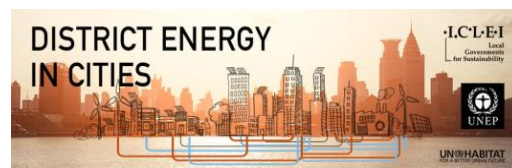
Buildings

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



Power Sector Accelerator is under development



SE4All Energy Efficiency Acceleration Roadmaps

Principles

Outline Elements

Tools Available



Principle I – Complementarity

SE4All Energy Efficiency work is embedded in overall SE4All Country Action Work and it aims at complementing and building on:

- Existing strategies, plans and activities at national and sub-national levels
- Existing work and support by international development cooperation and financial institutions
- Existing work by business and other non-governmental sectors of society



Principle II – Ambition

SE4All Energy Efficiency work is encouraging jurisdictions throughout the world to raise the EE ambition

- aiming at the development of **Action Plans and Roadmaps**
- in line with the overall SE4All objective of **doubling the global rate of improvement in energy efficiency**
- **accelerating action of their individual energy efficiency target**
- the **SE4All Global Energy Efficiency Accelerator Platform** was launched to assist in that endeavor
- In Sub-Saharan Africa, SE4All has teamed up with **Covenant of Mayors**



Principle III – Compatibility

In supporting jurisdictions in their EE efforts, SE4All and its partners will **take into account what has already been done and will build on that** guided by following considerations:

- compatible: Fully in line with national needs and priorities (bottom-up effort)
- realism: the envisioned work is implementable in the medium and long-term (**with a focus on 2016-2020** but with an eye to 2030)
- implementation focused: it aims at significant and verifiable results on the ground
- Investment focused: it aims as supporting mobilization on investments in key priority areas for each jurisdiction

Outline Elements:

- ❖ **Intro**
- ❖ **Jurisdiction`s strategy in EE**
- ❖ **Assessment/gaps/challenges**
- ❖ **Priority Setting**
- ❖ **Action and Investments required/timeline**
- ❖ **Conclusions**

❖ Tools available

- **There are many tools available and many are complementary (e.g. Covenant of Mayors, TRACE of ESMAP, sector-specific tools of SE4All EE Platform Accelerators)**
- **Jurisdictions choose the tools that it prefers**
- **Several of these tools and approaches will be discussed at this workshop**



SUSTAINABLE
ENERGY FOR ALL

SUSTAINABLE ENERGY FOR ALL

THANK YOU!