



SUSTAINABLE
ENERGY FOR ALL

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Jean-Jacques Rousseau Lecture
2015 Energy Union Summit
Brussels, 17 February 2015

Sustainable Energy for ALL: 1 Goal & 3 Objectives

Sustainable Energy for All by 2030



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.



What are the benefits of Energy Efficiency?

Urbanisation Leads to Higher Energy Consumption



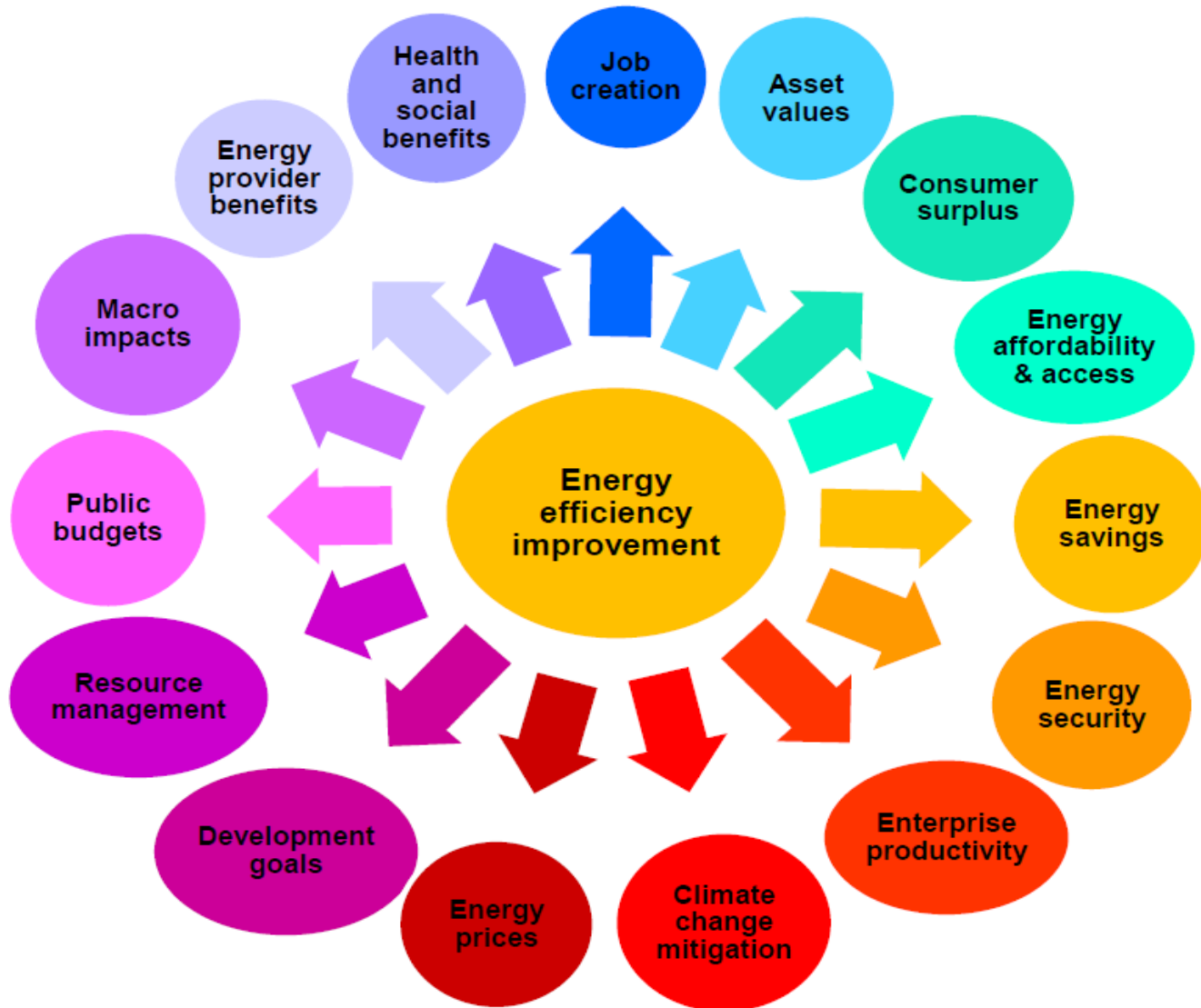
- Global Energy Consumption grew by 36% from 1990 & 2008
- Residential, Transport & Industrial sector represent 75% of total consumption
- 9.2 billion people by 2050 – with 2 billion new consumers from emerging economies.



EE can address most today's energy issues

- EE represents almost 50% of GHG total abatement potential by 2020 (1.5 Gt of CO₂) (IEA)
- Investing USD 170 billion every year in EE worldwide could generate:
 - An average rate of return of 17%, &
 - Energy savings up to USD 900 billion per year (McKinsey).
- EUR 1 million spent in EE generates 17 to 19 jobs (as compared to 9 jobs in the renewable industry)

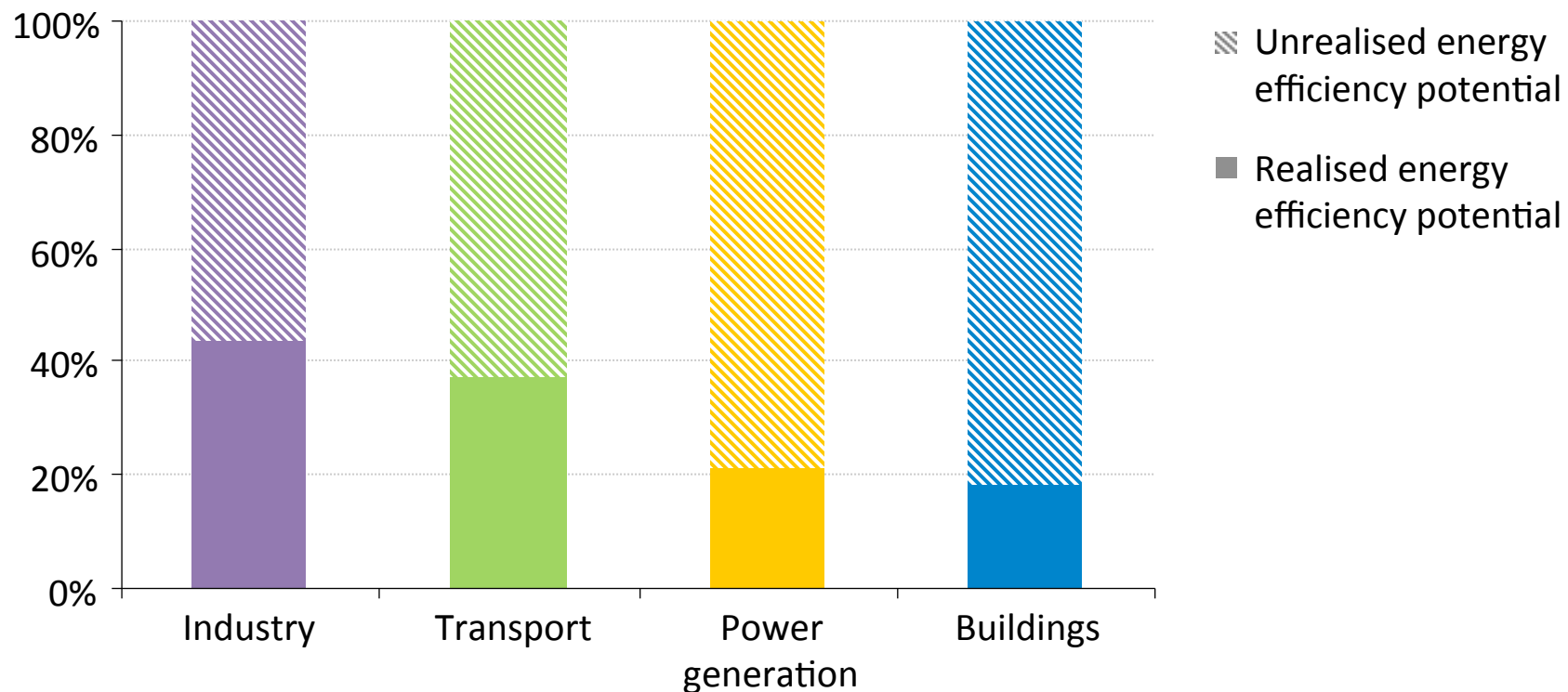
Energy Efficiency has many benefits



Source: IEA



However, up to 2/3 of EE Potential Remains Untap



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SE4ALL can accelerate energy
efficiency actions

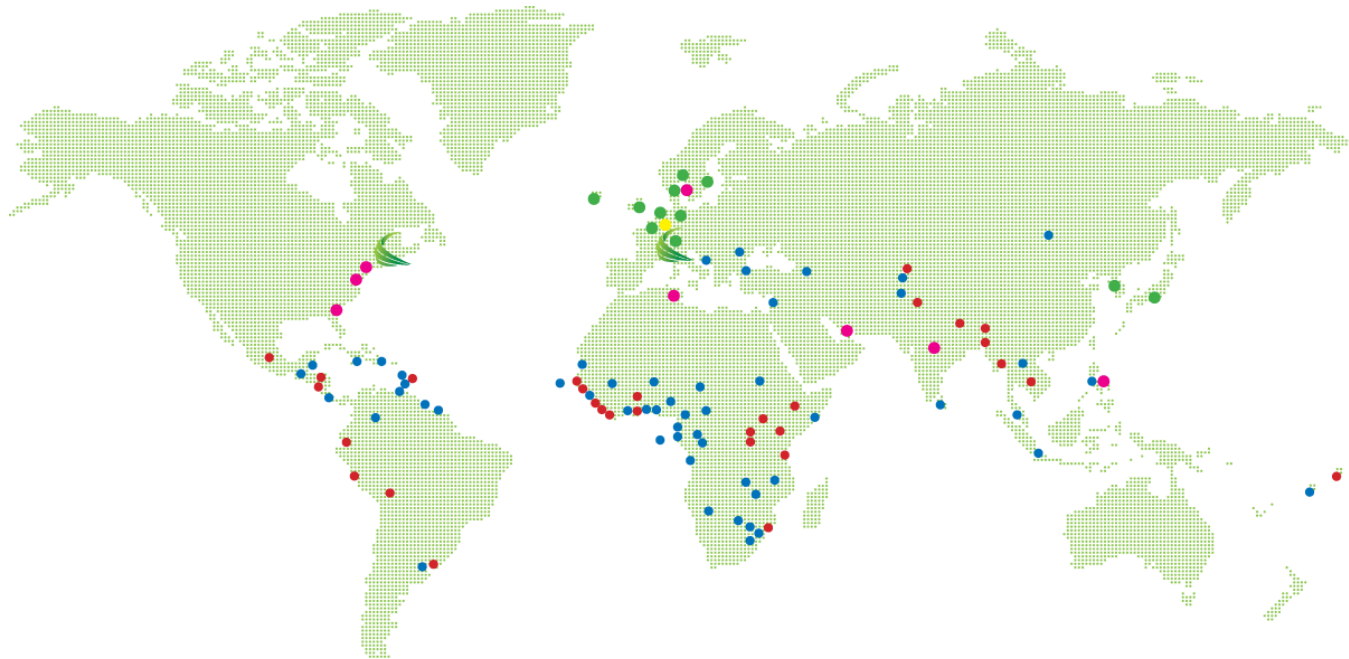
Our activities are implemented all around the world



European Bank
for Reconstruction and Development



Asian Development Bank



What is the Global EE Accelerator Platform?

Current
Initiatives

Transportation

Buildings

Lighting

Appliances

District Energy System

Energy Efficiency Finance

Initiatives
under
development

Industry

Power Sector



Participating Governments: The Example of the Industry Accelerator

- Burkina Faso
- Chad
- China
- Ecuador
- Egypt
- India
- Indonesia
- Iran
- Macedonia
- Malaysia
- Moldova
- Philippines
- Russia
- South Africa
- Thailand
- Turkey
- Ukraine
- Vietnam



Participating Governments:

The Example of the Transport Accelerator

- **Pilots:** Chile, Ethiopia, Indonesia, Kenya
- **Signed projects:** Georgia, Côte d'Ivoire, Mauritius, Jamaica, Montenegro, Macedonia, Philippines, Vietnam, Morocco, Bahrain, Egypt, Tunisia, Thailand, Peru, Uruguay, Nepal, Paraguay, Sri Lanka, Costa Rica, Benin, Algeria, Uganda
- **Talks ongoing to develop project:** Serbia, Benin, Russia, St-Lucia
- **Expressed interest:** Armenia, Azerbaijan, Barbados, Bangladesh, Guatemala, Togo, Uganda, Nigeria, Mali, Malaysia, Mozambique, Zambia, Ecuador, Dominican Republic, Panama, Tanzania, Rwanda, Djibouti
- **Countries targeted:** South Africa, Samoa, Columbia, Moldova, Turkey, Jordan, UAE



The Transport Accelerator: Phasing Out Inefficient Vehicles

- Goal is to double the EE of all new vehicles by 2030 and of all vehicles by 2050
- The Vehicle Fuel Efficiency Accelerator is Implemented by the **Global Fuel Economy Initiative** (GFEI)



This would save:

- **More than 1 gigaton of CO₂/year by 2025, &**
- **More than 2 gigatons by 2050**



The Lighting Accelerator: Phasing Out Inefficient Lighting

- The Lighting Accelerator is implemented by the **UNEP/GEF en.lighten partnership**
- Goal is to phase-out incandescent lamps by 2016
- 65 countries are participating.



This will save:

- More than 2 terawatt hours in electricity-use,
- 440 ktonnes emissions of CO₂, and
- More than USD 270M of electricity bill each year



The Appliance Accelerator: Phasing Out Inefficient ACs, Refrigerators & Fans

- Implemented by the Global Partnership on Appliances and Equipment
- Goal is to reduce electricity consumption in air conditioners, refrigerators and fans
- 28 countries have expressed their willingness to join the Partnership.

This will save:

- 165 TWh & 54 million tonnes of GHG emission/year,
- More than USD 22 billion each year



The Building Accelerator: Improving Efficiency at the City Level

- Facilitates collaborative, multi-stakeholder workshop to convene partners in each city.
- Provides governments with technical support leveraging best-in-class tools, databases and subject matter experts.
- Helps governments communicate and promote their commitments, calculate their baseline, report progress, and provide a platform for sharing experiences, challenges & best practices.
- International financial partners will provide funding to support policy development and demonstration project implementation.



District Energy Systems

- Private sector partners include Danfoss, Grundfoss, Siemens, Vattenfall, Veolia, Climespace & Empower
- A report will be launched next week in Paris, with participation from Ms Hidalgo (TBC) and Mr Achim Steiner
- *19 cities are interested in joining*



Their joint action could save up to 5 Mt of CO2 annually.



Industry (under development)

- The Goal is to facilitate the implementation of Energy Management Systems, technologies and practices in global industrial energy use.
- The Accelerator focuses on:
 - Large energy intensive industries, &
 - Energy intensive SMEs.
- It is lead by UNIDO, TERI & IIP



Next Steps



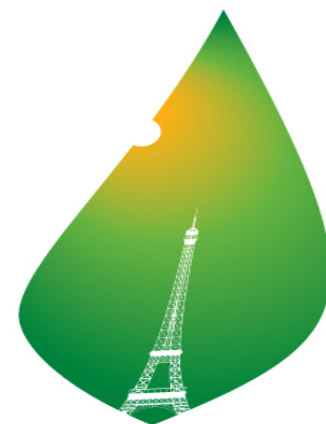
The Second United Nations
**SUSTAINABLE ENERGY FOR ALL
FORUM**

SAVE-THE-DATE
Week of 18-22 May 2015
United Nations Headquarters, New York



**VIENNA ENERGY
FORUM 2015**

Sustainable Energy for Inclusive Development



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

