

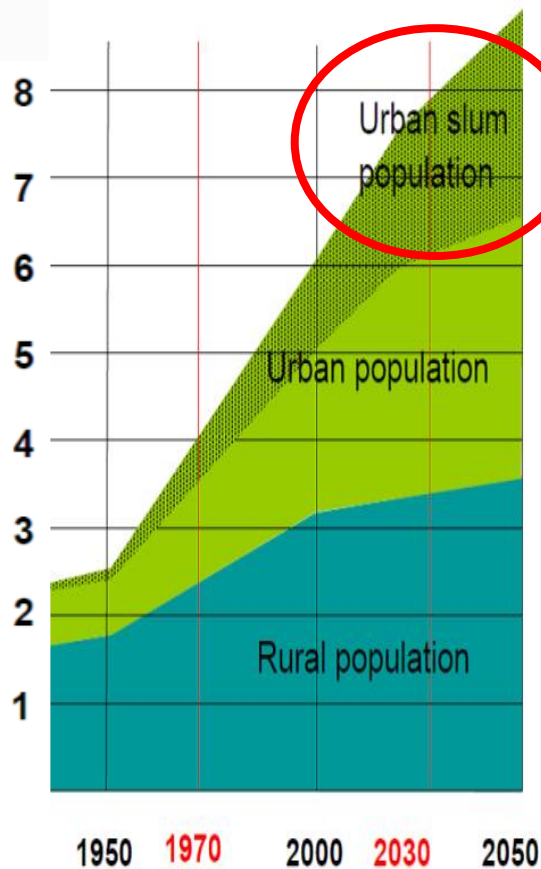


# Energy Efficiency in Cities and Development Cooperation in Sub- Saharan Africa

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**Empowering  
Development**



## Urbanisation in developing countries

**In 2013, 52% of the world's population was urban**  
**Global urban populations will double from 2.6 billion (2010) to 5.2 billion (2050)**

**In Africa, the urban population will also double from 650 Mhab today to 1.3 b hab.**

**Sufficient and efficient Energy services are crucial for development and poverty alleviation**

**Energy related city services include:**

- access to energy
- transportation
- water and sanitation
- buildings...

# Energy efficiency & urban development

## Inefficient or inappropriate use of energy impede economic growth

weak planning and insufficient operation and maintenance leading to high costs, trade balance deficits, resource wasting, blackouts, inequalities, pollution...

## Access to energy and energy efficiency are linked. The following dimensions should be considered

- energy sufficiency (collective organisation, appropriate behaviours, avoiding pointless energy uses)
- energy efficiency, i.e., providing as much energy service as possible with a limited quantity of energy
- local renewable energy sources

Énergie		Lave-linge
Fabricant		
Modèle		
Économe		
Peu économe		
Consommation d'énergie kWh/cycle		0.95
<small>Consommation d'énergie kWh/cycle normalisée Le kWh est l'unité de mesure de l'énergie. Elle est égale à 3 600 joules. La consommation réelle dépend des conditions d'utilisation.</small>		
Efficacité de lavage		A+++
Efficacité d'essorage		B++
Vitesse d'essorage (tr/min)		1200
Capacité (blanc kg)		5,0
Consommation d'eau L		48
Bruit [dB(A) re 1 pW]	Lavage	51
	Essorage	65
<small>Norme CEI 60335-2-100 Directeur de l'Énergie et de l'Équipement</small>		

EU Energy Label





## The vision: **Empowering Development**

Delivering results  
in the Decade of  
Sustainable Energy for All



# Empowering Development – Policy Vision

**Energy:  
key driver for sustainable  
inclusive growth**

- Africa-EU Energy Partnership (2007)
- Agenda for Change (2011)
- Sustainable Energy for All (2011)
- President Barroso ambitious goal (2012)
- MDGs – SDGs
- UNFCCC – COP21 in Paris (Dec. 2015)



2012 INTERNATIONAL YEAR OF  
**SUSTAINABLE ENERGY**  
FOR ALL



## 2030 SE4All Energy Goals

- Universal Access to Modern Energy Services
- Doubling the Rate of Improvement in Energy Efficiency
- Doubling the Share of Renewable Energy in Global Energy Mix





# **The Sustainable Development Goals**

**Adopted in September at UN meeting in NYC**

**SDG11 cities and human settlement**

**with several targets aiming at improving access to basic services, including transportation, resource efficiency, slum upgrading**

**SDG7 covers energy access and energy efficiency**

**Other SDGs relate indirectly to energy and cities:  
SDG6 / Water – SDG9 Infrastructures – SDG13  
Climate...**

**The Conference Habitat III will follow-up in October 2016 on the Urban dimension of SDGs**



# The Africa-EU Energy Partnership

- Established in December 2007 at the **Lisbon Africa-EU Summit**.
- Initial overall objectives:
  - **Dialogue** on energy access and energy security;
  - Improved **access** to reliable, secure, affordable, climate friendly and sustainable **energy services** for both continents, as per the **AEEP 2020 Targets**;
  - **Increased** European and African **investments** in energy infrastructure in Africa, including promotion of **renewables** and **energy efficiency**.





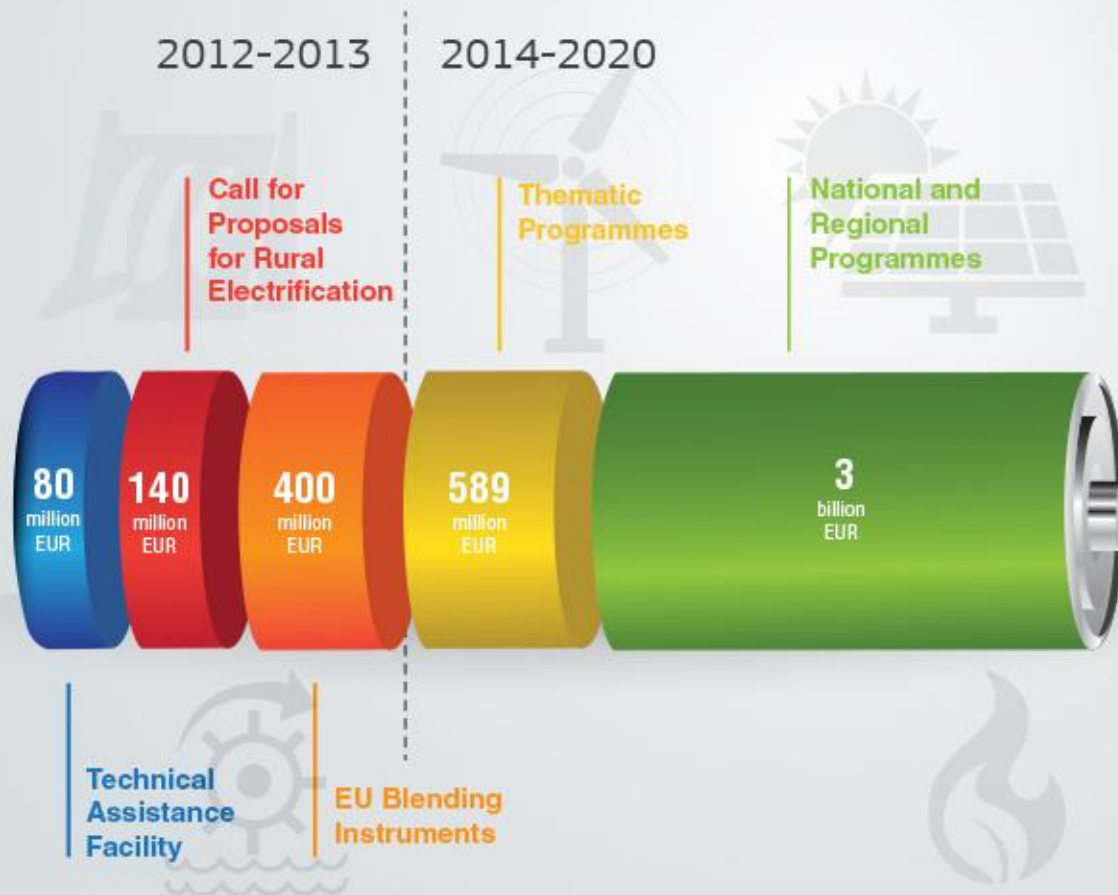
# Other important initiatives

- EU Energy Union: 15th action point – clear reference to EU energy cooperation with third countries, including on renewable energy and energy efficiency
- G7: conclusions of June 2015 mention AEEP and ElectrIFI
- G20: Conference on Energy Access in Sub-Saharan Africa (October 2015). Report on energy efficiency & EE financing (IPECC, October 2015)



## EU Development Co-operation three priority areas:

- Build on **strong political ownership** for policy reforms needed to attract investments
  - Increase the **partner countries' capacity**
    - **Stimulate investments** increasing access to energy with innovative co-financing schemes



## More than EUR 4 billion for the fight against energy poverty

- **EUR 600 million mobilised** already in 2012-2013
- **More than EUR 3.5 billion** allocated for 2014-2020.
- Significant **leveraging investments**. Fill gaps in energy infrastructure and power businesses, schools, homes and hospitals.





80 million EUR

## Catalysing reforms – making change happen

*Technical Assistance Facility*

### Key activities

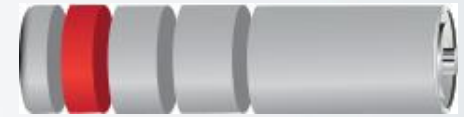
- Supports crucial sector reforms and policies
- Assists defining sound regulatory frameworks
- Helps creating a positive environment for private investments

### Tool

- EU's **Technical Assistance Facility**: a total budget of **EUR 80 million** supporting partner countries create an environment for investments and generate green growth.







140 million EUR



## Empowering rural communities

### Key activities

- **Rural electrification:** improve access to modern, affordable and sustainable energy services for the rural poor by focusing on renewable energy solutions and energy efficiency measures;
- Promote productive use of energy that generates growth at local level.
- Two Calls for proposals on rural electrification resulted in 30 EU funded projects → over **4 million additional** people in rural areas in Africa will gain improved access to modern, affordable and sustainable energy
- Operations started in 2014



400 million EUR



## Fuelling inclusive growth

*EU Blending Instruments*

### Key activities

- Use EU grants and other public and private sector resources such as loans and equity to leverage additional non-grant financing.

### Tool

- **EU Blending Facilities:** 7 regional facilities with targeted financing for sustainable energy investments:
  - EUR 400 million: expected to **leverage concrete investments of up to EUR 8 billion.**



589 million EUR

## Global Public Goods and Challenges

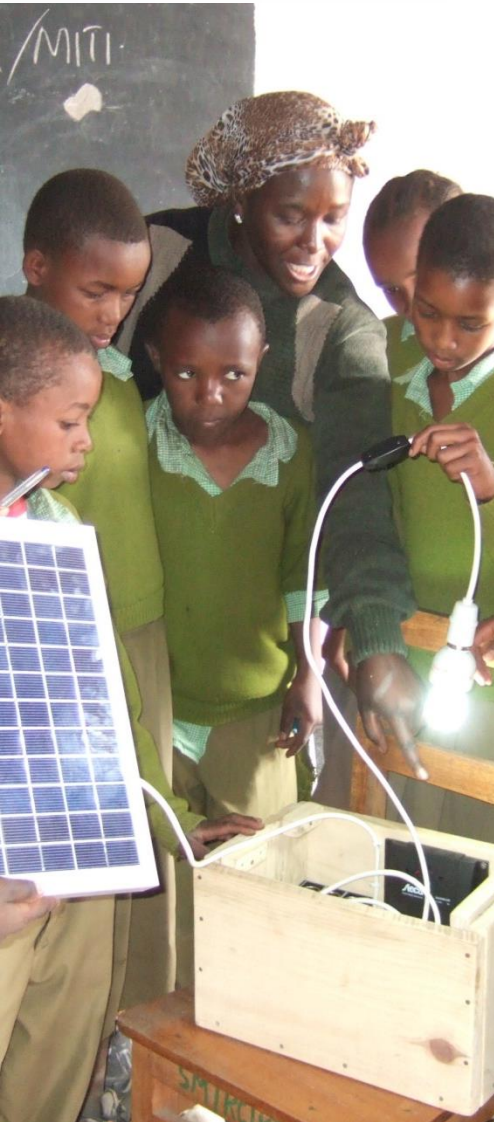
### *Thematic Programme*

#### Key activities

- Focus on enabling regulatory frameworks for sustainable energy services and support investments for *access to sustainable energy, energy efficiency and smart energy use*.
- Support strategic partnerships and alliances at global level.

#### Tool

- **EU Global Public Goods and Challenges Programme:** Actions addressing energy's multiple links with other sectors will be mainstreamed. EUR 589 million earmarked under this instrument for actions promoting sustainable energy over the next seven years (2014-2020).



## **Electrification Financing Initiative ElectriFI objectives:**

- ✓ intensive mobilisation of private sector investments in increasing and/or improving access to sustainable electricity and energy services,
- ✓ encourage actions with emphasis on decentralised sustainable energy solutions for populations living principally in rural areas or underserved areas / unreliable supply areas, and
- ✓ attract additional financing





# The EU Covenant of mayors initiative

**Set-up in 2008 by EU and local & regional authorities**

**Cities (now 6500 of them) commit to:**

- **Control / Reduce their GHG emissions**
- **Adopt a Sustainable Energy Action Plan (SEAP)**

**Now ready to be extended globally**

**Extension and adaptation to Sub-Saharan Africa is under the responsibility of DG DEVCO**

**More information to be provided during the workshop**

Mayors of the Covenant in the  
European Parliament, 2009



3 billion EUR

## Reinforcing bilateral dialogue and strengthening regional cooperation

*National & Regional Programmes Budget for energy*

Region	Country	
<b>Asia €591,0m</b>	Vietnam €346m; Philippines €222m; Iraq €23m	
<b>Caribbean €21,7m</b>	Belize €13,5m; Barbados €3m; Dominica €2,6m; St Kitts and Nevis €2,6m	
<b>Pacific €33,4m</b>	Micronesia €12m; Tonga €10m; Marshall Islands €8m; Nauru €2,2m; Palau €1m2222; Niue €0,3m	
<b>Central Asia €170,0m</b>		
<b>Sub-Saharan Africa €1.928,4m</b>		
	<b>Central Africa €382,5m</b>	Rwanda €200m; Burundi €105m; RIP €77,5m
	<b>West Africa €699m</b>	Nigeria €150m; Côte d'Ivoire €139m; Liberia €100m; Benin €80m; Togo €30m; RIP €200m
	<b>East and South Africa €823,9m</b>	Tanzania €180m; Ethiopia €90m; Madagascar €40m; Seychelles €1,5m; Zambia €244m; Lesotho €28,4m; ESA-IO €240m
	<b>Pan-Africa €23m</b>	
<b>Thematic/GPGC €400m</b>		
<b>Intra-ACP €300m</b>		



## **Joint Declarations on enhanced energy cooperation**

- Thirteen Joint Declarations signed
  - More Joint Declarations with African States and EU Member States, to be co-signed at the highest level during COP21



## COP21 Energy Day – Paris, 7 December

The EU will showcase during the 'Energy Day' in COP21, together with SE4ALL, EU MS and other partner countries and important stakeholders

Three main activities are foreseen to be showcased:

- **Joint Declarations on sustainable energy** - new Joint Declarations on reinforced cooperation on sustainable energy will be signed at the highest possible political level (countries tbc)
- **ElectriFI** – after the launch of the concept in New York (SE4All Forum, May 2015) the initiative is ready to kick-off and operational details and the first pipeline of projects will be presented
- **African Covenant of Mayors** – DG DEVCO is funding the extension of the 'Covenant of Mayors' Initiative to the African context. €10M have been allocated to the program to support African cities in the implementation of energy efficiency measures





# Thank you for your attention!

For more information:

<http://ec.europa.eu/europeaid/energy>

<http://capacity4dev.ec.europa.eu/topic/energy>