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# SUSTAINABLE ENERGY FOR ALL

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The SE4All Initiative in Africa - Steve Thorne

Domestic Use of Energy Conference, Presentation Cape Peninsula  
University of Technology, Cape Town, 1<sup>st</sup> April 2015



AFRICAN DEVELOPMENT BANK GROUP  
GROUPE DE LA BANQUE AFRICAINE  
DE DEVELOPPEMENT



**African Union**  
a United and Strong Africa



NEPAD Planning and Coordinating Agency  
Agence de Planification et de Coordination de NEPAD



# Why Energy?

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- “Energy is the golden thread that connects economic growth, increased social equity and an environment that allows the
  - world to thrive.”
  - -- *UN Secretary-General Ban Ki-moon*

# Why are we here today and why do we need SE4All?

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The world faces three great energy challenges in the coming decades.

1. First, ending energy poverty. Ensure that every person has access to electricity and modern energy sources for cooking and heating.
2. Second, we need to strengthen economic growth in a way that's equitable and addresses growing energy demand.
3. Third, we need to slow the warming of our planet by reducing global emissions and combatting local environmental impacts from energy-use.

# SE4All Goals by 2030

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- Universal access to modern energy services;
- Doubling the contribution of renewable energy; and
- Doubling the rate of increase in energy efficiency.



# Access to modern energy services?

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*“The SE4All universal access goal will be achieved only if every person on the planet has access to modern energy services provided through electricity, clean cooking fuels, clean heating systems, and energy for productive use and community services.”*

And

*“...access to energy is not a synonym for having a wire connected to your home though this is often the indicator that is measured and reported. The wire may or may not provide electricity, may or may not support cooking activities, and may or may not provide affordable and reliable service.”*

SE4All Access Committee 2014

# Doubling rate of increase in energy efficiency?

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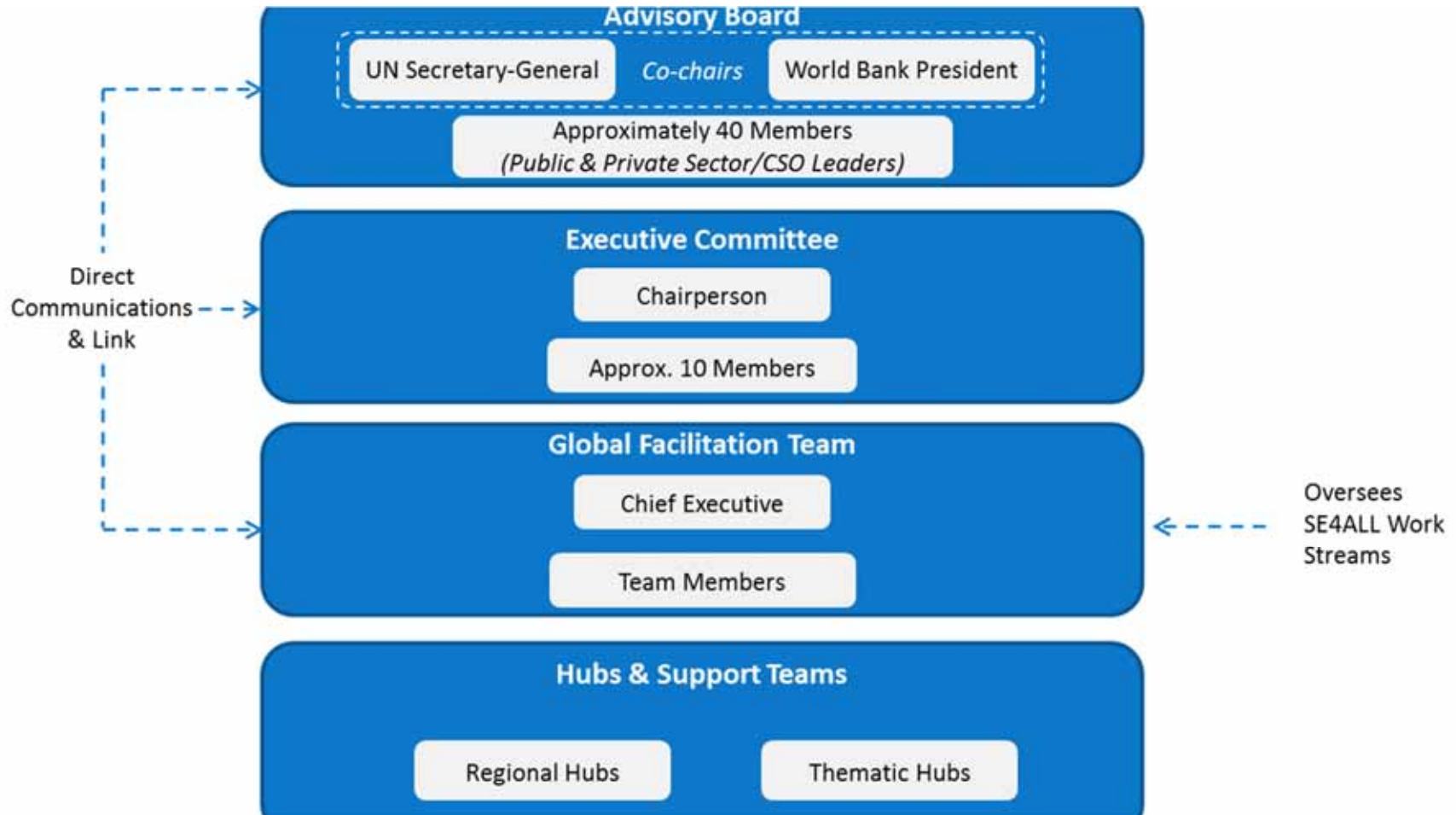
- This indicator refers to the rate in increase in energy intensity per unit of output.

# Estimated Public and Private investments in SE4All 2010-30

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- **Energy Access - \$45 billion** is required annually (current annual spending is \$9 billion); focus should be in Sub-Saharan Africa, South Asia and East Asia & Pacific.
- **Renewable Energy - \$320 billion** is required annually from a current baseline of \$154 billion to reach the goal.
- **Energy Efficiency - Up to \$390 billion** is required annually to achieve the goal (current spending is ~\$225 billion).

# Structure of the Initiative





## The SRSG and CEO of SE4All



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### **Dr. Kandeh K. Yumkella**

Special Representative of the  
United Nations Secretary  
General's Initiative on  
Sustainable Energy for All



# Regional and Thematic SE4All Hubs



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## Regional Hubs:

- The **African Development Bank**, in partnership with the **AU**, **NEPAD** and **UNDP** host the **Africa Hub**.
- The **Inter-American Development** hosts the **Latin America Hub**.
- The **Asian Development Bank** hosts the **Asia Hub**.

## Thematic Hubs:

- SE4ALL stakeholders and **IRENA** Members have designated the Agency as the Hub for **Renewable Energy**.
- UNSG Ban Ki-Moon opened an **Energy Efficiency** hub in Copenhagen in October 2013, hosted at UNEP the Risø Centre and the Technical University of Denmark (DTU).
- The **World Bank** hosts the SE4All Hub for **Knowledge Management** which tracks global progress (Global Tracking Framework (GTF)) on the goals of SE4All.
- UNDP** hosts the **Bottom Up Access** Hub, focusing on mini- and off-grid solutions.
- The Energy and Resources Institute (TERI) in New Delhi is establishing a hub for **Capacity Building**.

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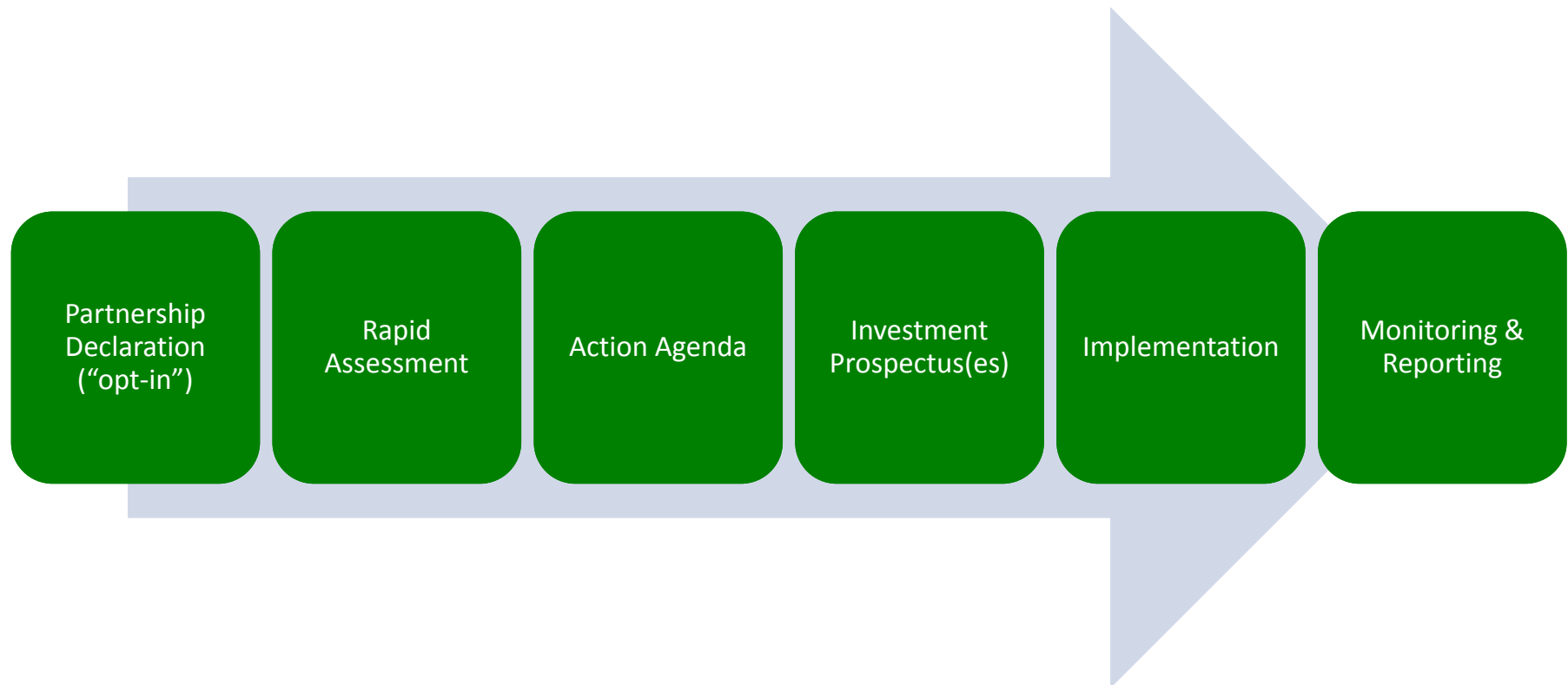


- SE4All country action process
- SE4All in Africa
- SE4All Africa Hub

# Country action process

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## Key steps for achieving SE4All objectives



## SE4ALL Action Agenda – Rationale and scope

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- Strategic and holistic linked to SE4ALL goals
- Umbrella framework for the sector that also includes the nexus angles
- Building on the Global Action Agenda
- Set out field of play and co-ordination basis for all actors in the sector
- Concise, pragmatic and action oriented building to the extent possible on existing plans and strategies
- Important in view of a potential energy goal that might emerge out of the post-2015/SDG processes

# SE4ALL Action Agenda – Outline

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- Preamble
- Executive Summary
- Introduction
- Part 1 – Vision and Targets until 2030
- Part 2 – Priority Action Areas
- Part 3 – Coordination and Follow-up



## Investment Prospectus – Rationale and scope

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- An Investment Prospectus provides an approach to operationalizing the Country Action Agenda towards achieving SE4ALL goals by identifying and developing a set of implementable programs and projects, including their investment requirements, that can be presented to potential private and public investors. It's not a research paper, nor a policy document or a feasibility study.
- It is a time-bound short-to-medium term document which presents an integrated set of prioritized and sequenced investment opportunities.



SUSTAINABLE  
ENERGY FOR ALL

## Investment Prospectus – Rationale and scope

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- Present and facilitate investment opportunities
- Concise – focused - realistic
- Diverse: country wide or specific sector, technology etc.
- Private sector orientation
- Implementation steps, legal and regulatory issues
- To be followed by detailed feasibility studies and implementation plans

Investments  
Description

Business Plan and  
Financing

Risks and Mitigation



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- SE4All country action process

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# Regional Access Gap

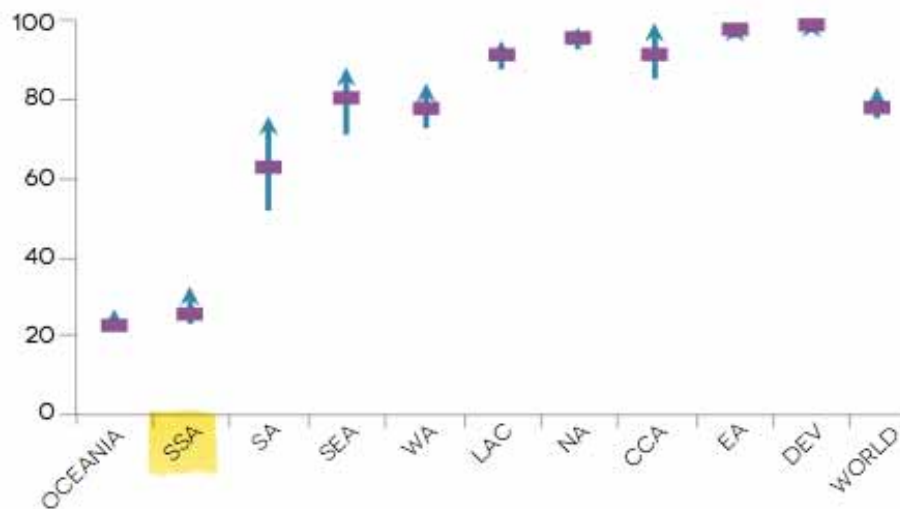


FIGURE O.1A GLOBAL AND REGIONAL TRENDS IN ELECTRIFICATION 1990-2010, PERCENT

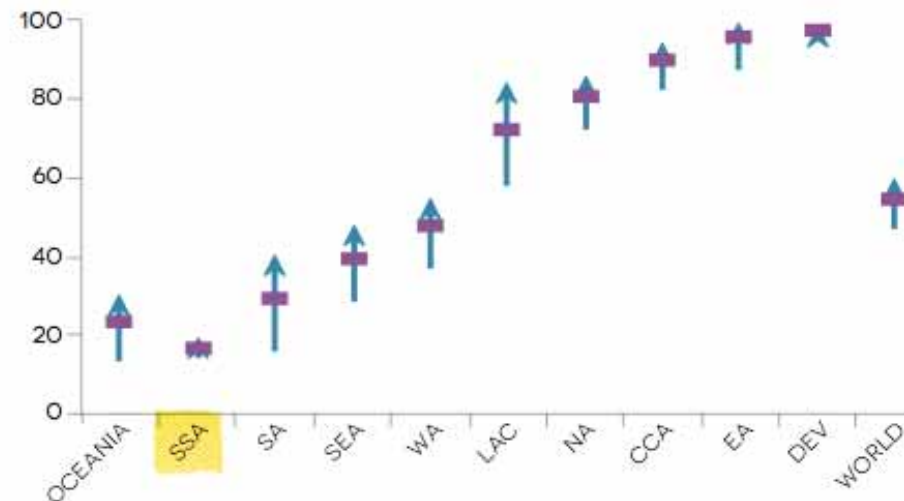
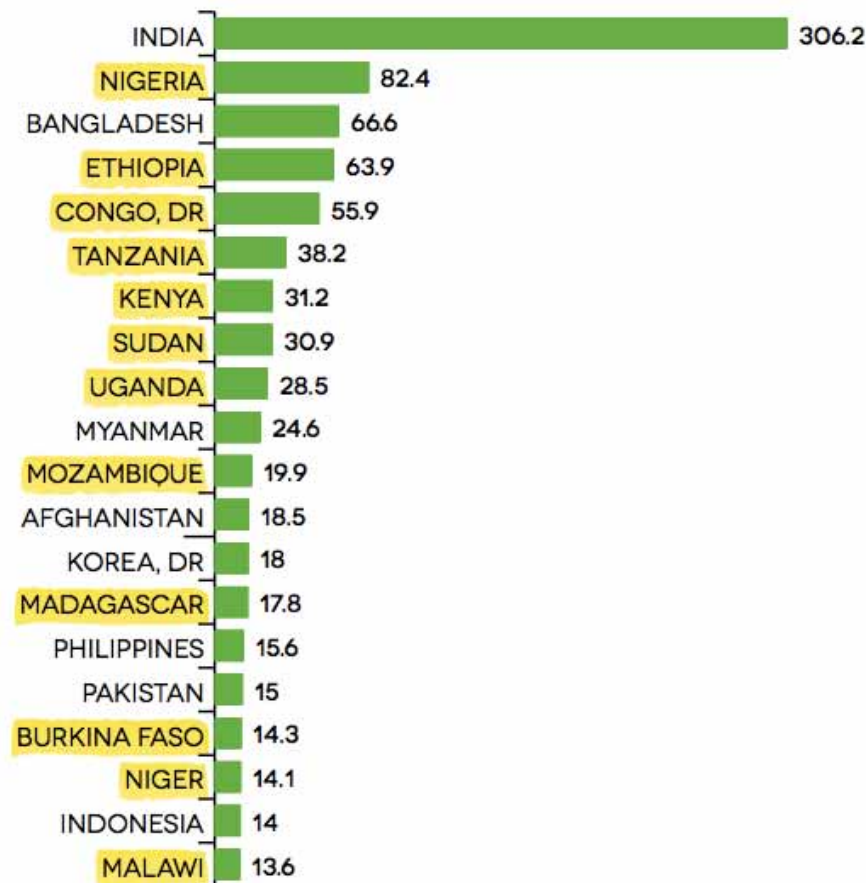


FIGURE O.1B GLOBAL AND REGIONAL TRENDS IN ACCESS TO NON-SOLID FUEL 1990-2010, PERCENT

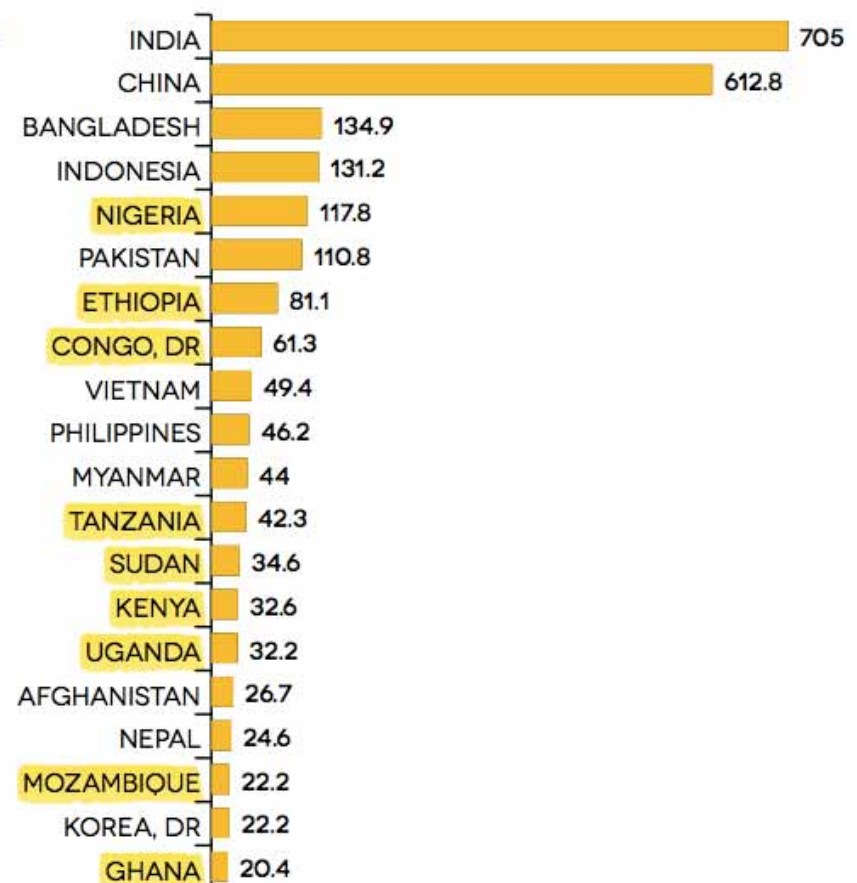
1990 2000 2010

# High Impact Countries

ELECTRICITY ACCESS DEFICIT  
(MILLIONS OF PEOPLE)



NON-SOLID FUEL ACCESS DEFICIT  
(MILLIONS OF PEOPLE)



# African Leadership

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- 2012 resolution of Conference of Energy Ministers of Africa (CEMA) calling upon countries to join SE4ALL
- Adoption of three continental documents by CEMA bureau in February 2014:
  - Guidelines for development of Action Agendas
  - Africa decentralized energy strategy
  - Sustainable Charcoal framework
- Africa Hub leadership on development of SE4ALL country action methodology (e.g. AA template)
- Africa Hub support to development of AA-IP in several focus countries
- Africa launch of SE4ALL Decade during AfDB Annual Meeting in Kigali

# Action Agendas Development



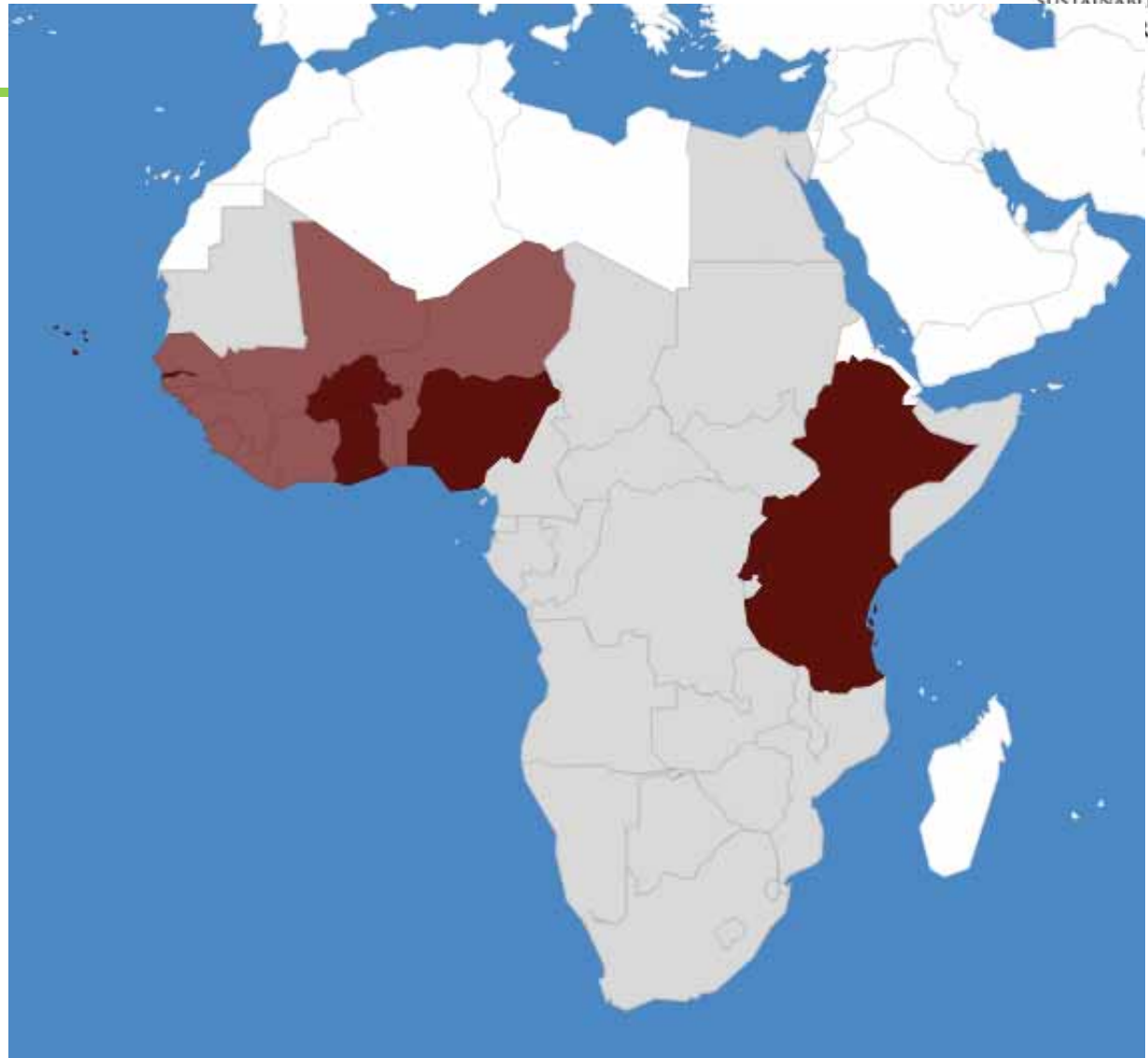
## Likely 1<sup>st</sup> wave countries (End 2014 – beginning 2015)

Burkina Faso  
Cape Verde  
Ethiopia  
Gambia  
Ghana  
Kenya  
Nigeria  
Rwanda  
Tanzania  
Uganda

## Likely 2<sup>nd</sup> wave countries

Benin  
Cote d'Ivoire  
Guinea  
Guinea-Bissau  
Liberia  
Mali  
Niger  
Senegal  
Sierra Leone  
Togo

Other countries under discussion



# Focus Countries 2014

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- Burkina Faso
- Burundi
- Ethiopia
- Gambia
- Ghana
- Guinea
- Kenya
- Liberia
- Mozambique
- Rwanda
- Senegal
- Sierra Leone
- Tanzania
- Uganda

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- SE4All country action process
- SE4All in Africa
- SE4All Africa Hub

# SE4ALL Africa Hub



## Mission

- Coordinate and facilitate SE4All implementation in Africa (CEMA Nov. 2012)

## Operating Principles

- African ownership
- “Light” structure
- Results orientation





# SE4ALL Africa Hub

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## Set-up

- **An Oversight and Operations Committee (OOC)** providing strategic guidance for the operations of the Hub Secretariat.
- **A Secretariat**, responsible for carrying out the activities of the Hub and its work program.
- The Hub is closely **linked to the Global Facilitation Team**.

# SE4ALL Africa Hub

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## Activities

- **Coordination and facilitation**
  - Provision of guidance on country action processes
  - Mapping of partner activities in support of SE4All processes in opt-in countries
  - Point of contact for SE4ALL focal points in countries and work with RECs
- **Information sharing and match-making**
  - Repository for all SE4All information in relation to Africa in cooperation with GFT
  - Providing a platform for linking interested partners (notably private sector) with African opt-in countries, including regarding so-called HIOs

# SE4ALL Africa Hub

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## Activities

### • Mobilization of financing

- Development of a resource mobilization strategy
- Link with AfDB's Sustainable Energy Fund for Africa (SEFA)
- Link with Pilot Africa Climate Technology and Finance Centre

### • Outreach and knowledge management

- Planning and coordination of outreach missions for 2014

### • Monitoring, evaluation and reporting

- Regular reporting to CEMA and GFT on SE4All implementation in Africa
- Envisaged to contribute to Global Tracking Framework

# Africa Hub – Instruments (1)

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## Sustainable Energy Fund for Africa (SEFA)

- Established in 2011 with a sizeable contribution from Denmark and transformed into a multi-donor trust fund in 2013, with contribution from USAID under Obama's Power Africa Initiative
- Objective of unlocking private investments in medium and small sustainable energy projects
- Three financial instruments:
  - 1) Grants to prepare bankable projects
  - 2) Equity to bridge financing gap and support managerial capacity -> incubation of the Africa Renewable Energy Fund
  - 3) Support to the public sector to improve enabling environment

# Africa Hub – Instruments (2)

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## Pilot Africa Climate Technology and Finance Centre

- Financed by GEF and implemented by AfDB
- Support development and transfer of climate technology in the energy (mitigation) and water (adaptation) sectors
- Three year project 2014-2017
- Aligned with SE4All objectives
- Will support mainstreaming of low carbon technologies in Action Agendas and Investment Prospectuses in selected countries

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**THANK YOU**

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