



AFRICAN DEVELOPMENT BANK GROUP  
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DE DEVELOPPEMENT

# Introduction to Energy Efficiency Policy Packages for Sub Saharan Africa Training Week – **Opening Day**

21 to 25 November 2022

International  
Energy Agency

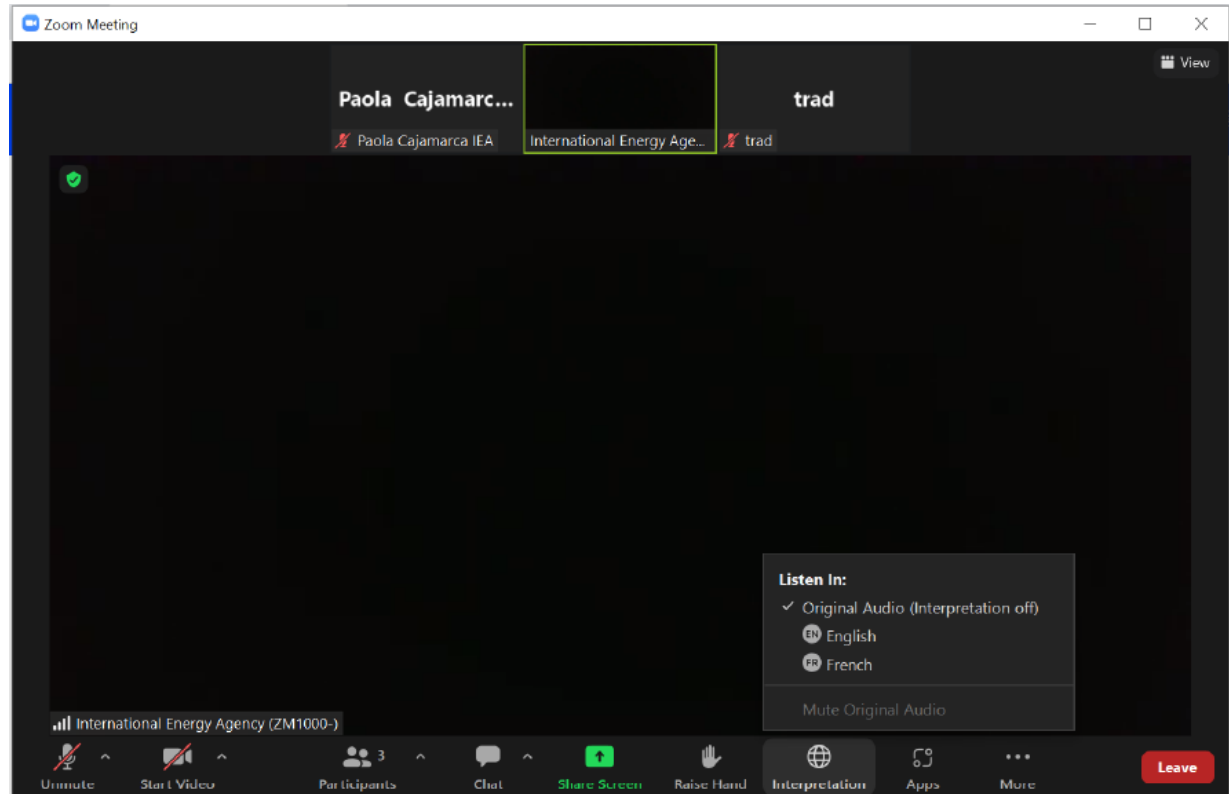
# Housekeeping rules



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- Please keep in mind that this event is both in French and English and that translation is available.
- Please keep your mics **on mute**, and leave your camera on if you are able to.
- Do not hesitate to ask questions through the chat and we will try to address them if time allows. In case of technical issues please contact us through the chat or send us an email at: [energy.efficiency@iea.org](mailto:energy.efficiency@iea.org)
- We will be engaging through menti polls and encourage everyone to participate.



# Agenda for day 1



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10h00	<b>OPENING REMARKS - Melanie Slade</b> , International Energy Agency
10h10	<b>SETTING THE SCENE PRESENTATION - Hugo Salamanca</b> , International Energy Agency.
10h25	<b>PANEL DISCUSSION: REGIONAL PERSPECTIVES ON ENERGY EFFICIENCY</b> <ul style="list-style-type: none"> <li>• <b>Xolile Mabusela</b>, Department of Mineral Resources and Energy, South Africa</li> <li>• <b>Fred Ishugah</b>, Renewable Energy Research &amp; Development, Kenya</li> <li>• <b>Kofi Agyarko</b>, Energy Commission, Ghana</li> <li>• <b>Charles Diarra</b>, ECOWAS Center for Renewable Energy and Energy Efficiency</li> </ul>
11h00	<b>PRESENTATION - Jalel Chabchoub</b> , Chief Investment Officer/Energy Efficient Expert, African Development Bank Group
11h15	<b>PANEL DISCUSSION - Moderated by Mel Slade</b> Innovation in energy efficiency, its multiple benefits, jobs creation, and brief overview of selected policy packages from international experiences <ul style="list-style-type: none"> <li>• <b>Vida Rozite</b>, International Energy Agency</li> <li>• <b>Emma Olsson</b>, European Commission</li> <li>• <b>Saurabh Diddi</b>, Bureau of Energy Efficiency, India</li> <li>• <b>Jane Akumu</b>, United Nations Environment Programme</li> <li>• <b>Stanford Harrison</b>, Department of Climate Change, Energy, the Environment and Water, Australia</li> </ul>
11h55	<b>CLOSING REMARKS - Dr Brian Motherway</b> , Head of Energy Efficiency, International Energy Agency



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# Opening remarks

# Regional Training on Energy Efficiency Policy Packages for Sub Saharan Africa

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Day 1 – Introduction to Energy Efficiency Packages



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## Melanie Slade

Senior Programme Manager  
Energy Efficiency Division IEA



**Hugo Salamanca**

**Energy Policy Analyst  
International Energy Agency (IEA)**

# Africa in an evolving global context



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- At this moment, Africa is being hit by multiple crises: a food emergency, increasing debts, impacts of climate change, and the global energy crisis. **More than 25 million people are estimated to be pushed into extreme poverty in 2022** in Sub-Saharan Africa alone.
- The number of people without access to electricity in Sub-Saharan Africa has gone up by 4% - 25 million - reversing steady progress since 2013.
- Africa's subsidy burden could double this year alone to an estimated 80 billion USD – an untenable outcome for many facing debt distress.
- On top of this, Africans are already disproportionately experiencing the worst effects of climate change, including drought, other extreme weather events and insecure food production,.
- This is despite Africa being responsible for less than 3% of global cumulative energy-related CO2 emissions since the start of the industrial revolution.
- Demand for energy services in Africa is set to grow rapidly; maintaining affordability remains an urgent priority. Efficiency helps temper demand growth, reduces fuel imports, strain on existing infrastructure and keeps consumer bills affordable.

# Efficiency brings benefits to all levels of the economy



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**USD 700 billion**

Avoided energy  
imports in the EU,  
China and India

**USD 600 billion**

Avoided energy  
expenditure in  
industry

**USD 550 billion**

Avoided household  
energy spending

**The world can double its efficiency in the next two decades using technologies that are already cost-effective  
One dollar invested in energy efficiency will payback three times in energy saved over the lifetime of the equipment.**



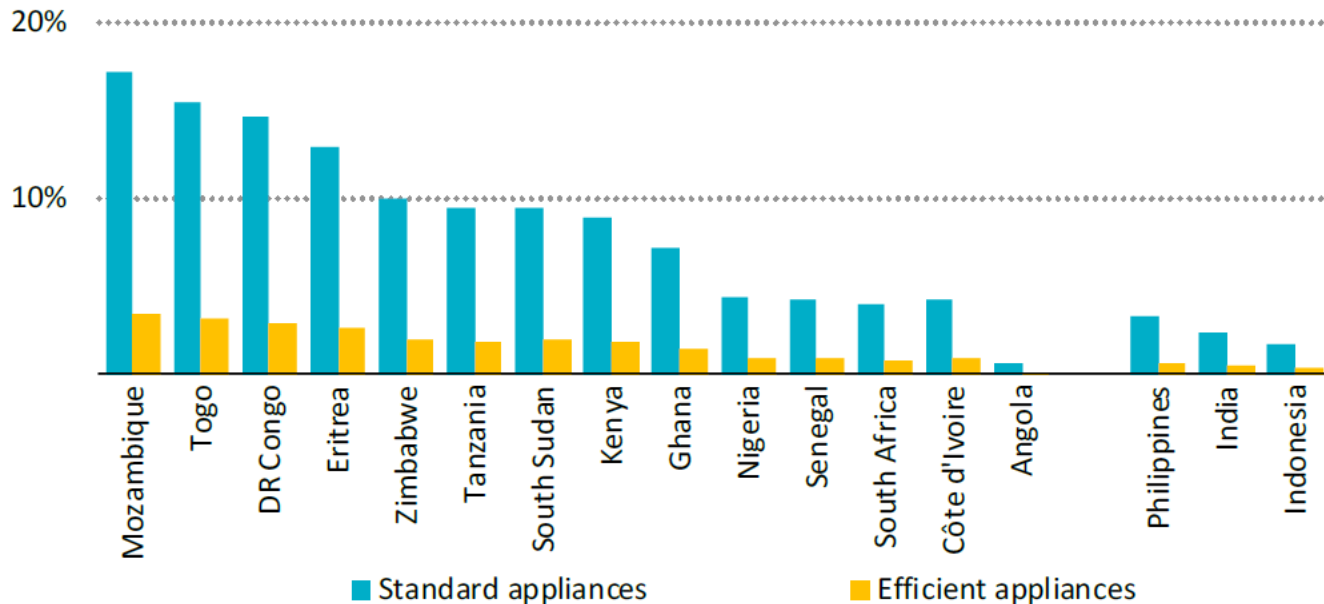
# Energy Efficiency can play a key role for lower income households



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Electricity expenses required to power basic appliances as a percentage of household revenues for the poorest 40%



**Affordability of electricity remains an issue for many people in African countries.  
Efficient appliances can help keep costs down**

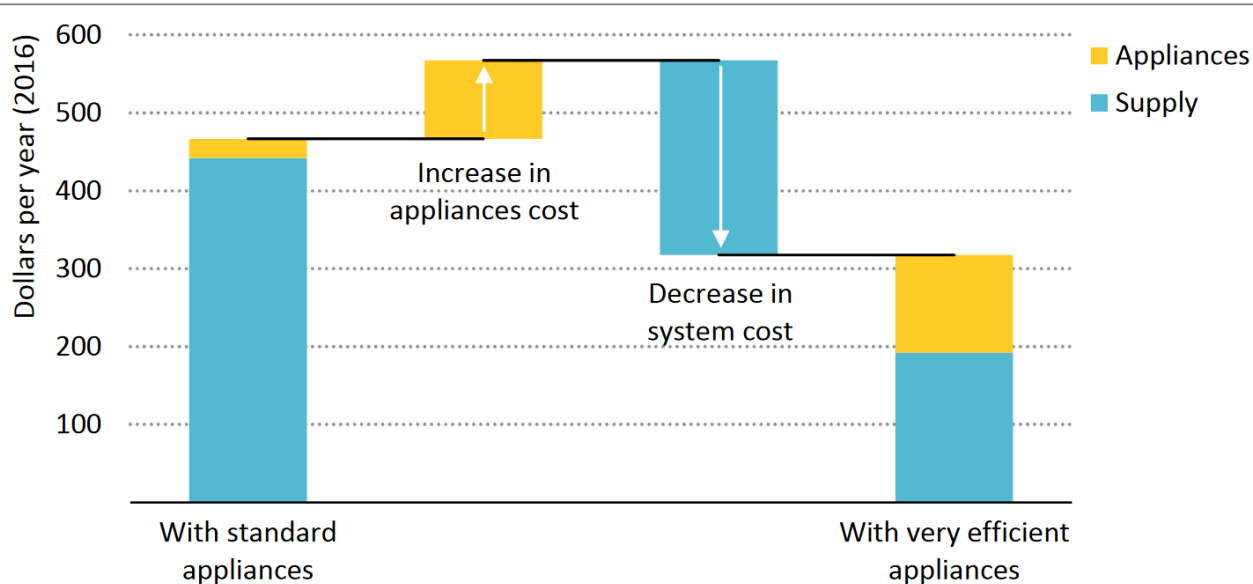
# Energy Access and energy efficiency



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Annualised discounted cost of providing electricity access through off-grid solar PV, with and without efficient appliances, in the Energy for All Case, 2030



**The cost of efficient appliances is more than offset by savings from reducing the size of a solar panel needed**

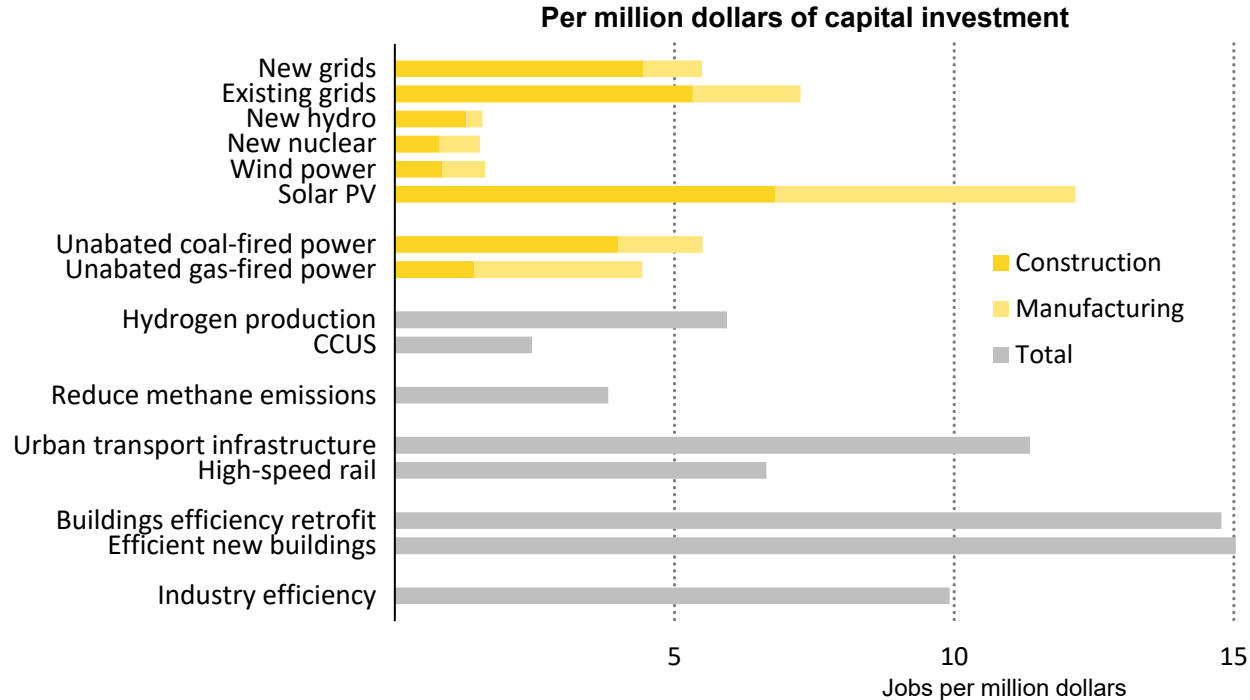
# Jobs analysis



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Jobs created per million dollars of capital investment and spending by measure



**Efficiency create some of the largest numbers of jobs per unit of investment.**  
**Enhanced efficiency investment can add 4 million jobs by 2030 in the IEA's Net Zero Scenario.**

# Policy Packages for Energy Efficiency



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In all sectors the greatest efficiency gains are achieved by a package of policies that combine three main types of mechanisms: **Regulation**, **information** and **incentives**. Careful design and implementation will deliver efficiency's full potential to enhance energy security, create jobs, increase living standards, cut energy bills and reduce emissions.

Targets

**Policies are more effective** when they are set in the context of clear strategies and targets.

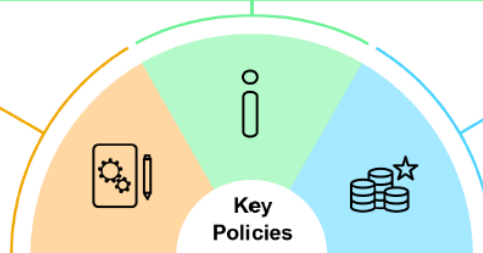


Essential elements

**Regulation** is essential to exclude the worst performing equipment and practices from the market, to drive average efficiency levels up, and to set rules for measurement of performance.

**Information** helps people make more efficient choices in what they buy and how they use energy.

**Incentives** make efficient options more attractive and speed up the upgrade and replacement of appliances, buildings and vehicles. They also encourage the use of new technologies and practices.



**Implementation** is as important as policy design.



Ensuring that the **resources** are in place to put policies into action.



Address **vital elements** such as capacity building, enforcement, monitoring.



It is important to continually assess **policies and programmes** so as to keep up to date with technology developments.

Since **2015**  
Over **1500** trainees  
From **120** countries  
**12** Energy Efficiency Training Weeks  
**1** Energy Efficiency Community

The aim of these training events is to equip energy efficiency policy makers and professionals with knowledge and skills to be more effective in their roles.

Participants become part of the international energy efficiency community with a large support network to call upon as they progress through their careers.

## led

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## Panel Discussion: Regional Perspectives on Energy Efficiency



**Xolile Mabusela**

Department of Mineral  
Resources and Energy,  
South Africa



**Fred Ishuga**

Renewable Energy  
Research &  
Development, Kenya



**Kofi Agyarko**

Energy Commission,  
Ghana



**Charles Diarra**

ECOWAS Centre for  
Renewable Energy and  
Energy Efficiency  
(ECREEE)



# **Jalel Chabchoub**

**Chief Investment Officer and  
Energy Efficient Expert  
African Development Bank  
Group (AfDB)**



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## Panel Discussion: Innovation in energy efficiency, its multiple benefits, jobs creation, and international experiences



**Vida Rozite**

International Energy  
Agency



**Emma Olsson**

European Commission



**Saurabh Diddi**

Bureau of Energy  
Efficiency, India



**Stanford Harrison**

Department of Climate  
Change, Energy, the  
Environment and Water,  
Australia



**Jane Akumu**

United Nations  
Environment  
Programme

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## Brian Motherway

Head of Energy Efficiency,  
International Energy Agency



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