



AEEP Energy Efficiency Workstream

Breaking down Energy Efficiency

Milan, 16 May 2016

AEEP Thematic Workstreams Background

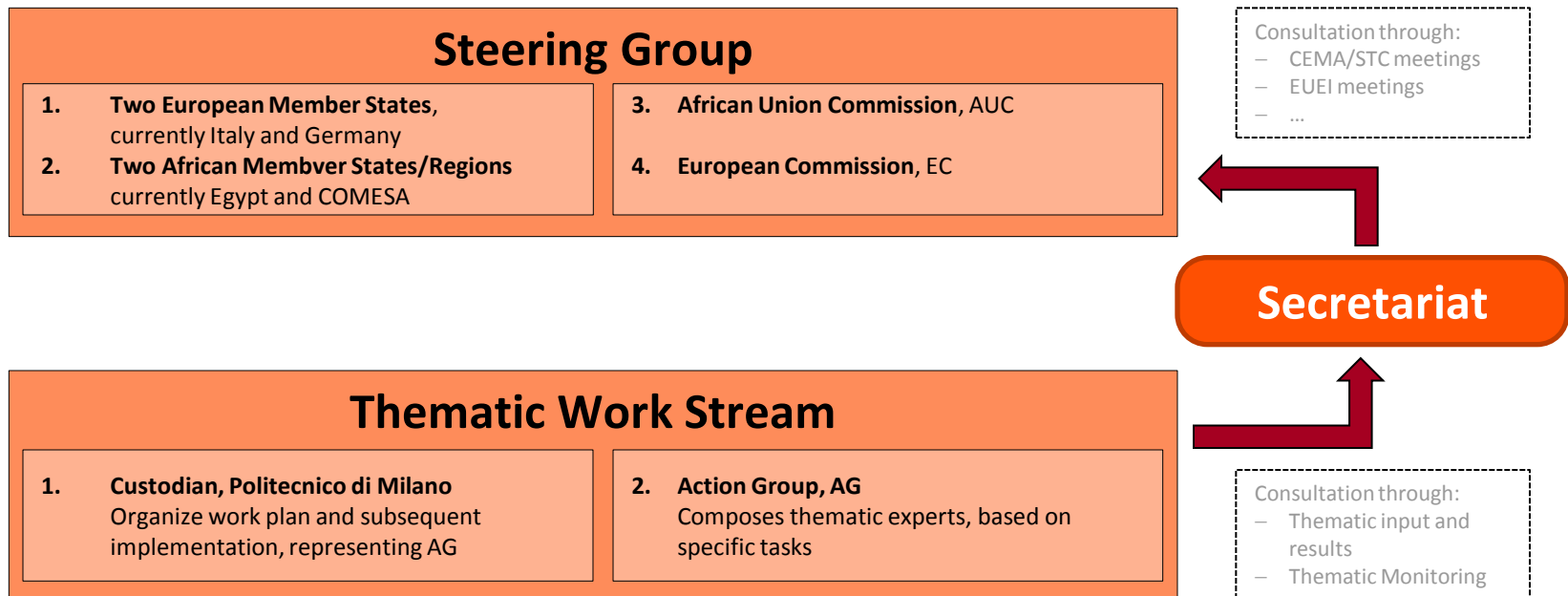
Objectives

- Facilitate activities on **research and analysis within thematic priority areas**
- **Thematic contribution to the AEEP's** organised energy business & policy dialogue forums
- And thereby **promote and advance the AEEP's political targets**

Thematic topics

Energy Sub-Sectors	Thermal energy (cooking, heating)	On- Grid Electricity	Off-Grid Electricity	Oil and Gas	Energy Efficiency
Target dimensions (AEEP targets)	Energy Access				
		Energy Security			
	Renewable Energy				
	Energy Efficiency				

AEEP Thematic Workstream Workstream Setup



AEEP Energy Efficiency Workstream Objective

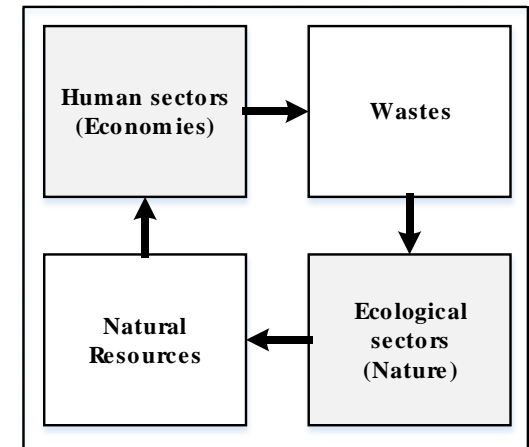
Contribute to the AEEP's target to promote energy efficiency across all sectors in Africa, by...

- **Ensuring appropriate engagement and value addition** to AEEP actors, in particular stakeholders from private sector, academia and civil society
- **Identifying specific guidelines for different stakeholders** and different phases along the energy value supply chain in order to promote energy efficiency
- **Keeping track of available data** in respective streams, and push for further data availability.

AEEP Energy Efficiency Workstream Rational

Why a focus on “efficiency”?

- human and economic activity goes along the **development of the right capacity of using natural resources including energy.**
- Since the **Bruntland** report the concern about **overexploitation of (non-renewable) natural resources** has come to be a **global issue**:
 - they are **limited**
 - their **misuse** affects the environment
 - their **non-equitable distribution** affects international security
- **Accounting for natural resources is crucial all along the life cycle**



Exploitation

Extraction

Distribution

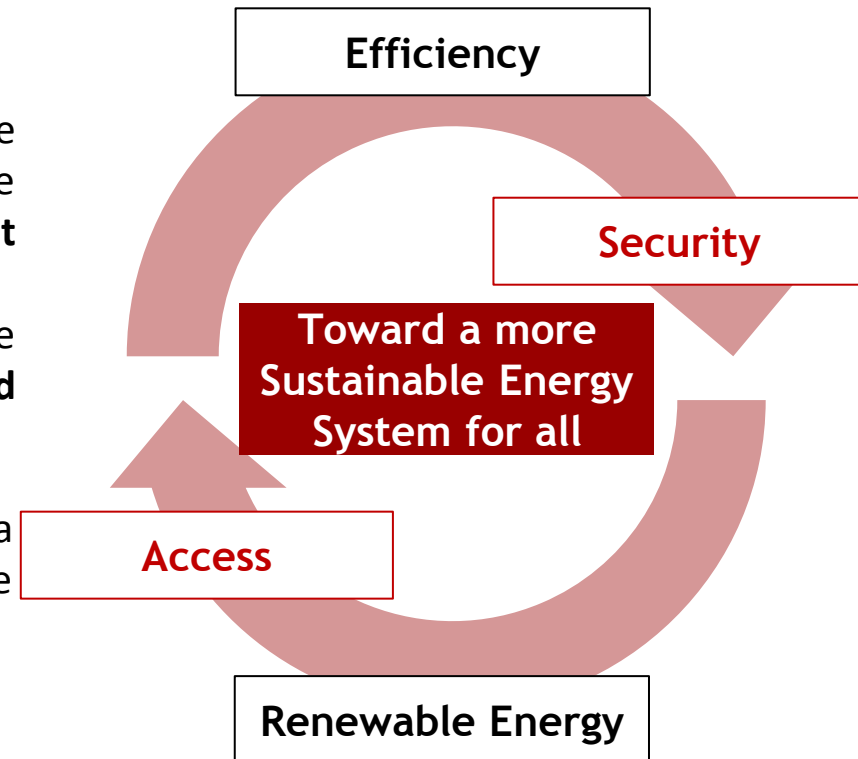
Use

Disposal

AEEP Energy Efficiency Workstream Rational

Why a focus on “efficiency”?

- COP21 stated that we are at a **turning point**
 - if we could not decrease and manage the consumption of resources, reduce waste and pollution, **no sustainable development** might ever come.
 - if we reduced dramatically our resource use or we run into sudden shortage **we could put under severe threat our societies**
- This is the space where **energy efficiency** has a dual role to play in the path toward a more **sustainable energy system for all**



AEEP Energy Efficiency Workstream Proposed Approach

Energy efficiency

- **plays a crucial role and provides high impact opportunities** for sustainable energy services:
 - Same services with a reduced consumption of primary energy
 - More services with the same consumption of primary energy
- **needs to be addressed along a life cycle perspective**
- **lack focus** due to the wide-spread nature of the “hidden fuel”

Suggested Proposal

To break-down the concept of energy efficiency by identifying key actions and recommendations for different stakeholder groups, starting from the current state of the art by some relevant players

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Who is involved in promoting efficient use in Africa?

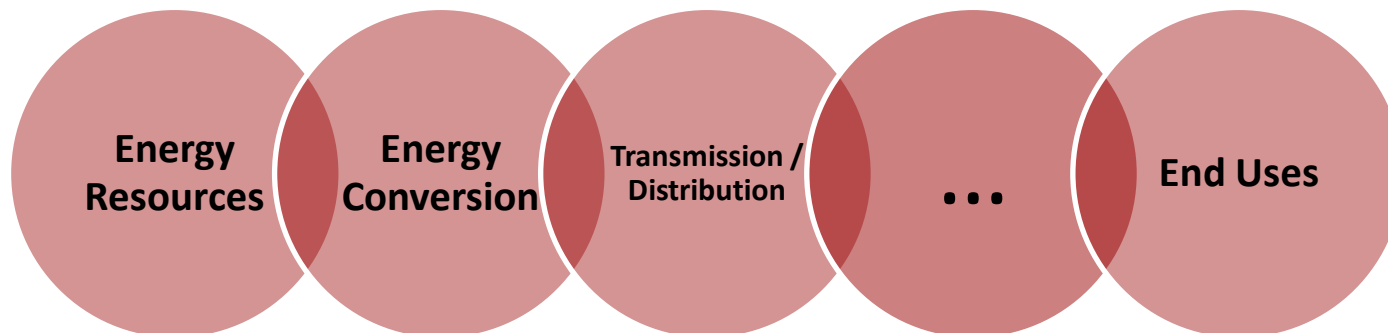
- Identification of **main stakeholder groups** responsible for targeted interventions
 - Public and private sector
 - Civil Society
 - Academia
 - Individual citizen
- Determining **stakeholder group resolution**
 - International/regional organisations
 - National/regional/municipal governance
 - Financiers

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Which key areas have to be addressed to promote efficient use?

- Interventions along the **energy value chain**



- **Cross cutting issues**, such as
 - Policies
 - Capacity Building
 - Behavioral Change
 - Environmental Impact

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AEEP - Workstream Energy Efficiency		Energy Efficiency - Key Interventions for Africa								
		Breakdown of the energy efficiency concept along a trinomial path								
		Supply Chain				Cross Cutting Issues				
		Energy Resources	Energy Conversion	Transmission & Distribution	End Use Across Sectors	Policies	Capacity Building	Behavioral Change	Entrepreneurial Attitude	Environmental Impact
Stakeholders	Public Sector	Action / Recommendation								
	Private Sector		Action / Recommendation							
	Financiers			Action / Recommendation						
	Civil Society				Action / Recommendation					
	Academia & Research					Action / Recommendation				
	Individual Citizen						Action / Recommendation			
	Regional Organisations							Action / Recommendation		
	International Organisations								Action / Recommendation	

Where do we start...

AEEP Thematic Workstreams

State of the art as starting point



**Microfinancing
Fuel subsidies**

...



**Consumptions
Buildings & Cities
Regulation
Incentives...**



**Integrated policies
Innovation
Best practices**

...



**Capacity building
Financing**

...



Technologies

*The real output of an economic process is not the material flow of waste,
but the still mysterious immaterial flux of the enjoyment of life*

Nicholas Georgescu-Roegen
Analytical Economics

**Thank You for
Your Attention!**



**Africa-EU
Energy Partnership**