





# Mapping of Energy Initiatives and Programs in Africa

**Report on Phase 2** 





#### Outline

- Introduction to AEEP
- Background
- Summary
- Methodology
- Validation Process
- Results
- Proposed Way Forward



### Africa EU Energy Partnership

The AEEP is a long-term framework for strategic dialogue on energy issues between Africa and the EU

- Established in 2007, under JAES strategy
- Political framework for strategic energy dialogue
  - High Level Meetings
  - Stakeholder Dialogue and engagement
  - Thematic Workstreams
  - Monitoring Progress of the AEEP 2020 targets
- Steering Group includes EC, AUC, COMESA, Egypt, Germany and Italy















### Background

- Investments in energy sector are recently being prioritized, catalysing multiple new international initiatives and donor programs
- Has led to an increased need for coordination and understanding of "who is doing what?"
- AEEP was requested by partners to initiate mapping as a key input to the AUC's pan-African coordination framework
- Objective: present information about donor initiatives promoting energy in Africa in a systematic approach, allowing for better coordination and results

African Energy Leaders Group AREF CTF SREP Africa Power Vision Africa Electrification Initiative **Africa Clean Energy Corridor Initiative** PIDA ITF SE4AII AEEP ElectriFi TAF AECF Africa Renewable Energy Initiative ASEF Energy Africa EUEI PD Mediterranean Solar Plan **ACP-EU Energy Facility** EAV GEEREF GVEP **GMG Africa** EnDev



### Summary

- "Lifting the fog" from the sector to reveal overlaps, potential synergies and gaps
- Key input to coordination efforts but also useful for practitioners and national governments
- Exercise undertaken through a phased consultative approach:
  - Phase 1 (concluded): initial overview of key initiatives and programs, compiled based on publicly available information; draft report presented at SAIREC in October 2015;
  - Phase 2 (concluded): the information contained in the Phase 1 report was verified and validated for presentation during COP 21 in Paris;
  - Phase 3 (underway): the mapping exercise will be finalized with an enhanced level of detail by way of additional input from stakeholders.
- The follow-up to mapping would be one of the central tasks of the planned Pan-African coordination platform



### Methodology I: Boundaries and Categorization

- Includes high-ambition international initiatives:
  - expected beneficiaries measure in 100.000's
  - Confirmed funding is significant (at least 5m EUR for TA-only initiatives; at least 20m EUR for financing instruments)
- Sound categorization allows for analysis and can lead to informed coordination and future planning
  - Geographical scope
  - Type of intervention
  - African counterparts and partners
  - Level of donor involvement

- Financing instruments
- Technical assistance instruments
- Energy sub-sector coverage
- Energy source



#### Results I: Selection of Initiatives

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Africa Clean Energy Corridor Initiative Africa Energy Leaders Group (AFLG)

Energies Pour l'Afrique Mediterranean Solar Plan

Affica Effergy Leaders Group (AELG)	Mediterranean Solar Plan							
Africa-EU Energy Partnership (AEEP)	Program for Infrastructur	Program for Infrastructure Development in Africa						
Africa Power Vision	SE4ALL (Africa Hub)							
Africa Renewable Energy Initiative								
	Operative programs and delivery mechanisms							
Abu Dhabi Fund For Development Project Facility	Clean Technology Fund	Global Energy Efficiency and Renewable Energy						
ACP-EU Energy Facility	EEP Africa – Energy and Environment Partnership	Green Mini-Grids Africa Regional Facility						
AFREA Gender and Energy Program	ElectriFi	Lighting Africa						
Africa 50	Energising Development	NEPAD Bioenergy Programme for Africa						
Africa Clean Cooking Energy Solutions Initiative	Energy Access Ventures	NEPAD Infrastructure Project Preparation Facilit						
Africa Energy Guarantee Fund	Energy Africa	Power Africa						
Africa Enterprise Challenge Fund	EREF ECOWAS Renewable Energy Facility	Regional Energy Project for Poverty Reduction						
Africa Renewable Energy Access Program (AFREA I & II) - ESMAP	EU-Africa Infrastructure Trust Fund/Africa Investment Facility	a Regional Technical Assistance Program						
Africa Renewable Energy Fund (AREF)	EU Development Finance Institutions Private Sector Development Facility	Renewable Energy Performance Platform						
Africa Sustainable Energy Facility (ASEF) (including	·	Renewable for Poverty Reduction Program						

TA to the ASEF)

Africa-EU Renewable Energy Cooperation Program

African Development Bank Partial Risk Guarantee

Biofuels Programme for Household and Transport

European Union's Technical Assistance Facility

Geothermal Risk Mitigation Facility

**GET FiT Uganda** 

Scaling Solar

Strategic Climate Fund – Scaling Renewable

**Energy Program** 

Sustainable Energy Fund for Africa

**Energy Use** 

Biomass Energy Initiative for Africa

Global Alliance for Clean Cookstoves

World Bank Guarantee Program



# Results II: Overview of High-Level Initiatives (by Sub-Sectors)

	Renewables		Non-		Electricity		Heating and	$\overline{}$	Energy Efficiency	Cardina Farance
africa elece econo	Kenewabies	ж			Electricity	N N			Energy Efficiency	Cooking Energy
Africa Clean Energy	B 1 5		Renewables		*** * **		Cooling	<u> </u>		
Corridor	Electricity system	х	Grid-connected	x	Mini-grids		Stand-alone off-			
			generation				grid			
	Renewables	х	Non-	ж	Electricity	х	Heating and	ж	Energy Efficiency	x Cooking Energy
Africa-EU Energy			Renewables				Cooling			
Partnership	Electricity system	х	Grid-connected	ж	Mini-grids	х	Stand-alone off-	ж		
			generation				grid			
	Renewables	х	Non-	х	Electricity	х	Heating and		Energy Efficiency	Cooking Energy
			Renewables				Cooling		,	
Africa Power Vision	Electricity system	×	Grid-connected	×	Mini-grids	_	Stand-alone off-	$\vdash$		
		-	generation				grid			
	Renewables	=	Non-		Electricity	-	Heating and		Energy Efficiency	Cooking Energy
frica Renewable Energy	Kenewables	ж	Renewables		Dectricity	×	_		thergy triciency	Cooking Energy
	Electricity system	×	Grid-connected	x	Mini-grids	_	Cooling Stand-alone off-	$\vdash$		
Initiative	Liectricity system	•	generation	^	Millirgilus		grid			
						_		<u> </u>		
	Renewables	х	Non-		Electricity	х	Heating and		Energy Efficiency	x Cooking Energy
Mediterranean Solar			Renewables				Cooling			
Plan (MSP)	Electricity system	х	Grid-connected	ж	Mini-grids		Stand-alone off-			
			generation				grid			
Programme for Infra-	Renewables	х	Non-	ж	Electricity	х	Heating and	ж	Energy Efficiency	Cooking Energy
•			Renewables				Cooling			
structure Development	Electricity system	х	Grid-connected	ж	Mini-grids		Stand-alone off-			
in Africa (PIDA)			generation		_		grid			
	Renewables	х	Non-	х	Electricity	х	Heating and	х	Energy Efficiency	x Cooking Energy
		-	Renewables	_			Cooling			222
SE4ALL (Africa Hub)	Electricity system		Grid-connected	×	Mini-grids	v	Stand-alone off-	x		
	PERSONAL SAMPLES		CHIC COMMECTED	-	minin Suras	-	State Giblic Off-	-		



# Results III: Example for Overview of Programs (by Sub-Sectors and Type of Support)

Programs with financi	ng and technic	cal	assistance co	mp	onents – Sect	tors	/ Sub-Sectors	/ Ty	pe of TA & financ	ing (continue	d)
	Renewables	х	Non- Renewables		Electricity	х	Heating and Cooling		Energy Efficiency	Cooking Energy	Г
ElectriFI	Electricity system		Grid-connected generation	х	Mini-grids	х	Stand-alone off- grid	х			
	Dialogue and networking				Information and analysis				Policy support / institution building		
	Project preparation / implementation			Х	Skill develo	opme	nt / training				
	Grant	Х	Equity		Debt	Х	Guarantee		Early stage x		
	Renewables	Х	Non- Renewables	X	Electricity	х	Heating and Cooling	х	Energy Efficiency x	Cooking Energy	X
Energising Development	Electricity system	Х	Grid-connected generation		Mini-grids	х	Stand-alone off- grid	х			
(EnDev)	Dialogue and networking				Informati	ion an	ıd analysis	х	Policy support / institution building		
	Project preparation / implementation			X	Skill develo	Skill development / training					
	Grant	X	Equity		Debt		Guarantee		Early stage x		
	Renewables	X	Non- Renewables		Electricity	х	Heating and Cooling	х	Energy Efficiency x	Cooking Energy	х
EREF ECOWAS Renewable Energy	Electricity system	х	Grid-connected generation	х	Mini-grids	Х	Stand-alone off- grid	х			
Facility	Dialogue ar	nd ne	etworking	Х	Informati	ion an	nd analysis	Х	Policy support / inst	itution building	
•	Project preparation	n / ir	nplementation	Х	Skill develo	pme	nt / training	х			
	Grant	X	Equity		Debt		Guarantee		Early stage x		
	Renewables	X	Non- Renewables		Electricity	X	Heating and Cooling		Energy Efficiency x	Cooking Energy	
EU-Africa Infrastructure	Electricity system	х	Grid-connected generation	x	Mini-grids		Stand-alone off- grid				
Trust Fund (ITF)	Dialogue and networking				Information and analysis				Policy support / inst	itution building	
	Project preparation	n/ir	nplementation	х	Skill development / training		х				
	Grant	Х	Equity	х	Debt	х	Guarantee	х	Early stage		



### Results IV: Example for Full Details (Annex IV)

Name of initiative	SE4ALL (Africa Hub)											
Implementing agencies	Hosted by the AfD	B tog	ether with the Af	rican	Union, the New Pa	rtner	ship for Africa's Dev	elopn	nent (NEPAD) and U	NDP		
African partners	Pan-African organization	х	Regional organization	х	Government	х	Other public body	x	Private sector	х	Civil society	x
Names of African partners involved	African Union Con	nmiss	ion, NEPAD Plann	ing a	nd Coordination Ag	gency,	ECOWAS Centre for	r Rene	ewable Energy and E	nerg	y Efficiency (ECREEE)	)
Donor involvement (incl. IOs)	Single Donor		Multi-donor	х	Multilaterals involved	х	Bilaterals involved	х				
Names of donors involved (incl. IOs)	African Development Bank, UNDP											
Geographical scope	Continental	х	Regional		Country							
Countries where active	Country-level proce Tanzania, Uganda (				i, Ethiopia, Gambia	, Gha	na, Guinea, Kenya, L	iberia.	a, Mozambique, Rwa	ında,	Senegal, Sierra Leon	ie,
Sector	Renewables	X	Non- Renewables	X	Electricity	X	Heating and Cooling	х	Energy Efficiency	Х	Cooking Energy	х
Sub-Sector (Electricity)	Electricity system		Grid-connected generation	Х	Mini-grids	X	Stand-alone off- grid	х				
Type of intervention	High-lev (ups	el ini trea		х	Program / funding mechanism (downstream				TA component	х	Financing component	
Type of technical assistance	Dialogue ar Project preparation			х	x Information and analysis Skill development / training			х	Policy support / institution building			
Type of financing	Grant	11 / 11	Equity		Debt	pine	Guarantee		Early stage	l		
Main objectives		tha		ic to		ilitate		n of t		on th	e African continent i	in
Main objectives	- The mission of the SE4ALL Africa Hub is to coordinate and facilitate the implementation of the SE4ALL initiative on the African continer keeping with the resolution of the Conference of Energy Ministers of Africa in November 2012. The Hub will promote African ownersh inclusiveness and a comprehensive approach to the Initiative's implementation.											
Main activities	<ul> <li>Coordination and facilitation of the implementation of the SE4All initiative in Africa;</li> <li>Rapid assessments / gap analysis,</li> <li>Development of country-level Action Agendas and Investment Prospectuses</li> </ul>											
Comments									<u>-</u>		<u>-</u>	
Sources		SE4All Annual Report 2014 SE4All Africa Hub Leaflet 2014										



#### **Validation Process**

- Phase 2 included a thorough validation process with key stakeholders
  - Both data presented and overall methodology were validated and commented upon by key actors
- Presentations at major sector events including SAIREC, PIDA Week, COP21 (and now SE4ALL forum)
- Verification and validation was received by key organizations
  - EC, AUC, NEPAD, AfDB, SE4ALL, UNDP, IFC, WB, UNECA, AREI
- Responses were positive and reaffirmed the need for clarity in the complex web of actors



### Results/Messages (so far)

- Recent years have witnessed the emergence of energy access and private sector oriented programs
- Key gap remains lacking support for early-stage project development
- Geographical focus remains on central and sub-saharan Africa
  - Both in terms of programs and ODA flows
- ODA figures show substantial overall increase in the past 10 years in to sustainable energy in Africa
- Significant number of large initiatives in the pipeline



### **Proposed Way Forward**

- Finalize the report through a thorough Phase 3 to ensure all initiatives and further details are incorporated
- Conduct selected stakeholder discussions to interpret aggregated data/derive conclusions for coordination effort
- Integrate with ongoing processes to put information to use:
  - AUC coordination effort
  - SE4ALL
  - Africa Renewable Energy Initiative
  - Bilateral funding
- Official launch of Report planned for AEEP Stakeholder Forum (Italy, May 2016)
- (Sustainability) Hand over to Pan-African Coordination framework for management and dissemination



## Thank you for your attention!

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