



Mapping of Energy Initiatives and Programs in Africa



The Africa-EU
Energy Partnership

Outline

- Rationale
- Approach
- Methodology
- Results (illustrative examples)
- Proposed Way Forward

Rationale

- Challenge
 - Multitude of ongoing and proposed initiatives by various partners
 - Lack of comprehensive overview, information difficult to access
 - Generates transaction costs, duplication and inefficiencies
- Mapping of initiatives key
 - To provide information as a prerequisite for coordination
 - To understand the “puzzle” and identify overlaps, potential synergies and gaps
- Mapping as input for a Pan-African coordination platform to facilitate, for example:
 - Information sharing
 - Monitoring of activities
 - Systematic learning across partners

Approach

- AEEP was requested by partners to initiate mapping
- Objective: to compile a comprehensive and systematic mapping of initiatives promoting energy in the African context
- Exercise to take a phased 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 (*ongoing*): the information contained in the Phase 1 report is being verified and validated for presentation during COP 21 in Paris;
 - Phase 3 (*to follow COP 21*): the mapping exercise will be finalized with an enhanced level of detail by way of additional input from stakeholders.
- Follow-up a task for planned Pan-African coordination platform

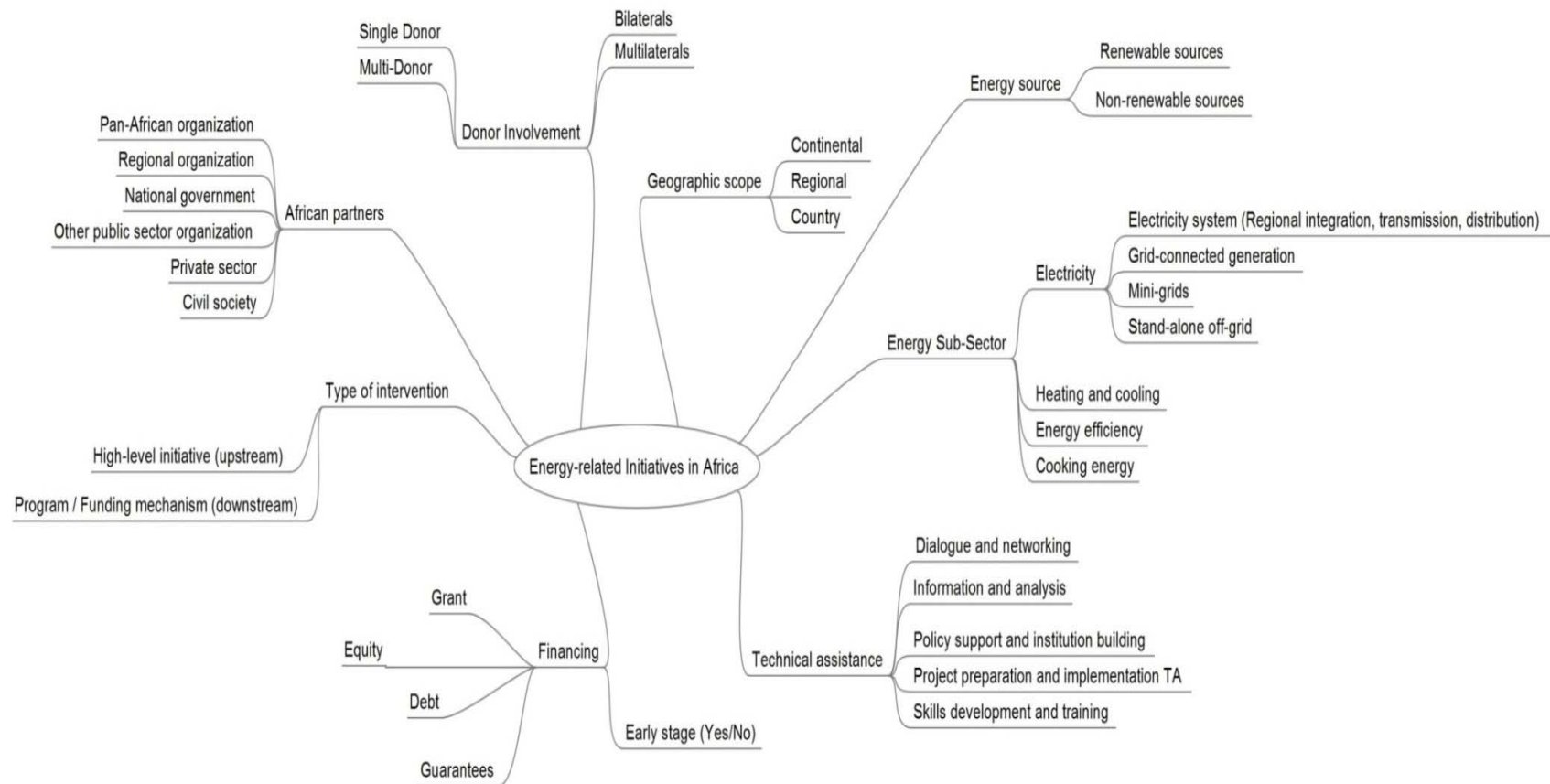
Methodology I: Boundaries

- The mapping exercise needs well-defined boundaries to ensure that all relevant work is captured, i.e.:
 - Multi-country initiatives, incl. initiatives with a planned multi-country roll-out;
 - Initiatives supported by Pan-African public actors and / or international development partners (donors and implementers);
 - All energy sub-sector; but not initiatives focused exclusively large-scale fossil-based energy (coal, oil, gas) and nuclear energy;
 - High ambition in terms of
 - Anticipated results and outcomes (i.e. the expected beneficiaries measure in 100.000's)
 - Significant confirmed funding (at least 5m EUR for TA-only initiatives; at least 20m EUR for financing instruments)

Methodology II: Framework for Categorization

- Mapping needs sound categories to present and capture the nature of initiatives, i.e. by..
 - Geographical scope
 - Type of intervention
 - African counterparts and partners
 - Level of donor involvement
 - Financing instruments
 - Technical assistance instruments
 - Energy sub-sector coverage
 - Energy source

Methodology II: Framework for Categorization



Methodology III: Template

Name of initiative												
Implementing agencies												
African partners	Pan-African organization	<input checked="" type="checkbox"/>	Regional organization	<input type="checkbox"/>	Government	<input type="checkbox"/>	Other public body	<input type="checkbox"/>	Private sector	<input type="checkbox"/>	Civil society	<input type="checkbox"/>
Names of African partners involved												
Donor involvement (incl. IOs)	Single Donor	<input checked="" type="checkbox"/>	Multi-donor	<input type="checkbox"/>	Multilaterals involved	<input type="checkbox"/>	Bilaterals involved	<input type="checkbox"/>				
Names of donors involved (incl. IOs)												
Geographical scope	Continental	<input checked="" type="checkbox"/>	Regional	<input type="checkbox"/>	Country	<input type="checkbox"/>						
Countries where active												
Sector	Renewables	<input checked="" type="checkbox"/>	Non-Renewables	<input type="checkbox"/>	Electricity	<input type="checkbox"/>	Heating and Cooling	<input type="checkbox"/>	Energy Efficiency	<input type="checkbox"/>	Cooking Energy	<input type="checkbox"/>
Sub-Sector (Electricity)	Electricity system	<input checked="" type="checkbox"/>	Grid-connected generation	<input type="checkbox"/>	Mini-grids	<input type="checkbox"/>	Stand-alone off-grid	<input type="checkbox"/>				
Type of intervention	High-level initiative (upstream)		<input checked="" type="checkbox"/>	Program / funding mechanism (downstream)			<input type="checkbox"/>	TA component	<input type="checkbox"/>	Financing component	<input type="checkbox"/>	
Type of technical assistance	Dialogue and networking		<input checked="" type="checkbox"/>	Information and analysis			<input type="checkbox"/>	Policy support / institution building				
	Project preparation / implementation		<input checked="" type="checkbox"/>	Skill development / training			<input type="checkbox"/>					
Type of financing	Grant	<input checked="" type="checkbox"/>	Equity	<input type="checkbox"/>	Debt	<input type="checkbox"/>	Guarantee	<input type="checkbox"/>	Early stage	<input type="checkbox"/>		
Main objectives												
Main activities												
Comments												
Sources												

Results I: Selection and Grouping of Initiatives and Programs

<p>High-level initiatives (“Upstream”)</p>	<ol style="list-style-type: none"> 1. Africa Clean Energy Corridor Initiative 2. Africa Power Vision 3. Africa Renewable Energy Initiative (AREI) 4. Africa-EU Energy Partnership (AEEP) 5. Mediterranean Solar Plan 6. Program for Infrastructure Development in Africa (PIDA) 7. Sustainable Energy for All (SE4All) 	
<p>Program / Funding Mechanism (“Downstream”)</p>	<ol style="list-style-type: none"> 1. ACP-EU Energy Facility 2. Africa 50 3. Africa Electrification Initiative (AEI) 4. Africa Energy Guarantee Mechanism (AEGM) 5. Africa Enterprise Challenge Fund (AECF) 6. Africa Renewable Energy Access Program (AFREA I & II) 7. Africa Renewable Energy Fund (AREF) 8. Africa Sustainable Energy Facility (ASEF) 9. Africa-EU Renewable Energy Cooperation Program (RECP) 10. African Development Bank Partial Risk Guarantee (PRG) 11. Clean Technology Fund (CTF) 12. ElectriFi 13. Energising Development (EnDev) 14. Energy Sector Management Program (ESMAP) 	<ol style="list-style-type: none"> 15. EREF ECOWAS Renewable Energy Facility 16. EU Energy Partnership Dialogue Facility (EUEI PDF) 17. EU-Africa Infrastructure Trust Fund (ITF) 18. European Union’s Technical Assistance Facility (TAF) 19. Geothermal Risk Mitigation Facility (GRM) 20. GET FiT Uganda 21. Global Alliance for Clean Cookstoves (GACC) 22. Global Energy Efficiency and Renewable Energy Fund (GEEREF) 23. Global Village Energy Partnership (GVEP) 24. Lighting Africa 25. Power Africa 26. Regional Technical Assistance Program (RTAP) 27. Strategic Climate Fund Scaling Up Renewable Energy Program (SREP) 28. Sustainable Energy Fund for Africa (SEFA) 29. World Bank Guarantee Program

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

High-level initiatives – Sectors / Sub-Sectors addressed												
Africa Clean Energy Corridor	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling		Energy Efficiency		Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
Africa-EU Energy Partnership	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling	x	Energy Efficiency	x	Cooking Energy	x
	Electricity system	x	Grid-connected generation	x	Mini-grids	x	Stand-alone off-grid	x				
Africa Power Vision	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling		Energy Efficiency		Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
Africa Renewable Energy Initiative	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling		Energy Efficiency		Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
Mediterranean Solar Plan (MSP)	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling		Energy Efficiency	x	Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
Programme for Infrastructure Development in Africa (PIDA)	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling	x	Energy Efficiency		Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
SE4ALL (Africa Hub)	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling	x	Energy Efficiency	x	Cooking Energy	x
	Electricity system		Grid-connected generation	x	Mini-grids	x	Stand-alone off-grid	x				

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

Programs with financing and technical assistance components – Sectors / Sub-Sectors / Type of TA & financing (continued)												
ElectriFI	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling		Energy Efficiency		Cooking Energy	
	Electricity system		Grid-connected generation	x	Mini-grids	x	Stand-alone off-grid	x				
	Dialogue and networking				Information and analysis				Policy support / institution building			
	Project preparation / implementation			x	Skill development / training							
	Grant	x	Equity		Debt	x	Guarantee		Early stage	x		
Energising Development (EnDev)	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling	x	Energy Efficiency	x	Cooking Energy	x
	Electricity system	x	Grid-connected generation		Mini-grids	x	Stand-alone off-grid	x				
	Dialogue and networking				Information and analysis			x	Policy support / institution building			
	Project preparation / implementation			x	Skill development / training			x				
	Grant	x	Equity		Debt		Guarantee		Early stage	x		
EREF ECOWAS Renewable Energy Facility	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling	x	Energy Efficiency	x	Cooking Energy	x
	Electricity system	x	Grid-connected generation	x	Mini-grids	x	Stand-alone off-grid	x				
	Dialogue and networking			x	Information and analysis			x	Policy support / institution building			
	Project preparation / implementation			x	Skill development / training			x				
	Grant	x	Equity		Debt		Guarantee		Early stage	x		
EU-Africa Infrastructure Trust Fund (ITF)	Renewables	x	Non-Renewables		Electricity	x	Heating and Cooling		Energy Efficiency	x	Cooking Energy	
	Electricity system	x	Grid-connected generation	x	Mini-grids		Stand-alone off-grid					
	Dialogue and networking				Information and analysis				Policy support / institution building			
	Project preparation / implementation			x	Skill development / training			x				
	Grant	x	Equity	x	Debt	x	Guarantee	x	Early stage			

Results IV: Example for Full Details (Annex IV)

Name of initiative	SE4ALL (Africa Hub)											
Implementing agencies	Hosted by the AfDB together with the African Union, the New Partnership for Africa's Development (NEPAD) and UNDP											
African partners	Pan-African organization	x	Regional organization	x	Government	x	Other public body	x	Private sector	x	Civil society	x
Names of African partners involved	African Union Commission, NEPAD Planning and Coordination Agency, ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)											
Donor involvement (incl. IOs)	Single Donor		Multi-donor	x	Multilaterals involved	x	Bilaterals involved	x				
Names of donors involved (incl. IOs)	African Development Bank, UNDP											
Geographical scope	Continental	x	Regional		Country							
Countries where active	Country-level processes: Burkina Faso, Burundi, Ethiopia, Gambia, Ghana, Guinea, Kenya, Liberia, Mozambique, Rwanda, Senegal, Sierra Leone, Tanzania, Uganda (first phase focus countries)											
Sector	Renewables	x	Non-Renewables	x	Electricity	x	Heating and Cooling	x	Energy Efficiency	x	Cooking Energy	x
Sub-Sector (Electricity)	Electricity system		Grid-connected generation	x	Mini-grids	x	Stand-alone off-grid	x				
Type of intervention	High-level initiative (upstream)			x	Program / funding mechanism (downstream)				TA component	x	Financing component	
Type of technical assistance	Dialogue and networking			x	Information and analysis			x	Policy support / institution building			
	Project preparation / implementation					Skill development / training						
Type of financing	Grant		Equity		Debt		Guarantee		Early stage			
Main objectives	- The mission of the SE4ALL Africa Hub is to coordinate and facilitate the implementation of the SE4ALL initiative on the African continent in keeping with the resolution of the Conference of Energy Ministers of Africa in November 2012. The Hub will promote African ownership, inclusiveness and a comprehensive approach to the Initiative's implementation.											
Main activities	<ul style="list-style-type: none"> - Coordination and facilitation of the implementation of the SE4All initiative in Africa; - Rapid assessments / gap analysis, - Development of country-level Action Agendas and Investment Prospectuses 											
Comments												
Sources	<ul style="list-style-type: none"> - SE4All Annual Report 2014 - SE4All Africa Hub Leaflet 2014 											

Proposed Way Forward

- Validation of methodology: input from experts and professionals is appreciated!
 - Verification of information: list of included initiatives as well as information provided; outreach to stakeholders and implementers
 - Inclusion of additional information in order to ensure that all relevant activities are captured
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- Next milestone: verified and validated mapping available at COP21
 - Following COP21: possibly phase III with increased level of detail

Thank you for your attention!

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