

Towards Sustainable Energy



The ECOWAS Renewable Energy Policy and the NREAPs Process

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ECOWAS Renewable Energy Policy (EREP)

- Based on a comprehensive Renewable Energy Baseline Report;
- Developed with support of the European Union, Austria, Spain, UNIDO and GEF;
- Validated by ECOWAS Experts Group Meeting, June 2012, Dakar;
- Adopted by ECOWAS Energy Ministers during the High-Level Energy Forum, Oct 2012, Accra;
- Adopted by the ECOWAS Council of Ministers, June 2013, Abidjan;
- Adopted by the ECOWAS Authority of Heads of State and Government, July 2013, Abuja;
- Regional policy represents a voluntary contribution of ECOWAS to the SE4ALL Initiative.



ECOWAS RE POLICY TARGETS BY 2020/2030

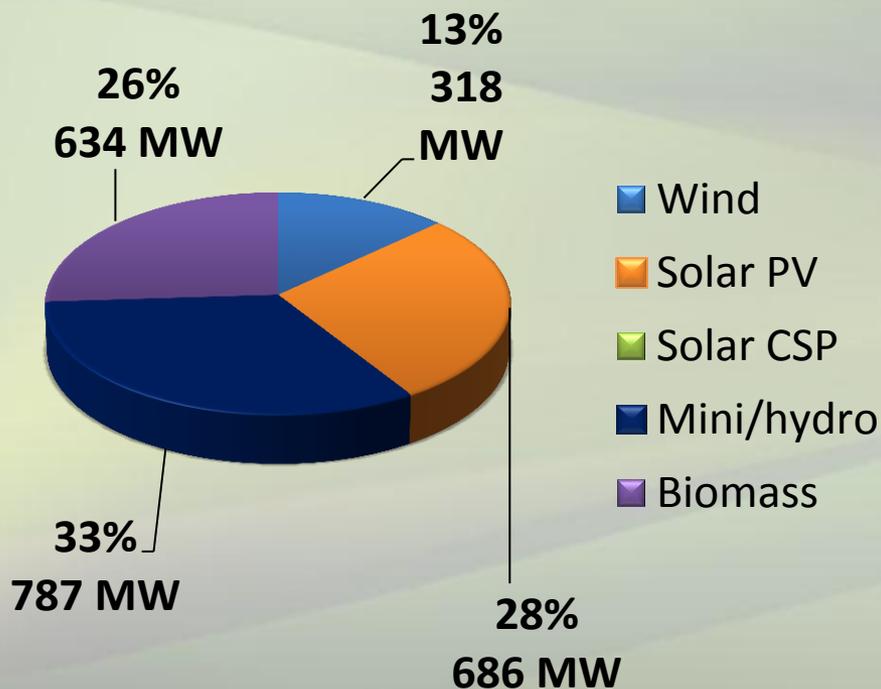
in MW of installed capacity	2010	2020	2030
Load forecast ECOWAS, in MW peak load	10,659	25,128	39,131
WAPP total RE capacity (medium and large hydro)	3,447	6,272	11,340
WAPP RE Penetration in % of peak load	32%	25%	29%
EREP renewable energy options in MW	0	2,425	7,606
EREP renewable energy options in % of peak load (excl. medium and large hydro)	0%	10%	19%
Total RE penetration (incl. medium and large hydro hydro)	32%	35%	48%

in GWh of produced electricity	2010	2020	2030
Load forecast ECOWAS – electricity demand in GWh	65,696	155,841	243,901
WAPP RE total production (medium and large hydro) in GWh	16,965	27,494	46,844
WAPP RE production Share (medium and large hydro)	26%	18%	19%
EREP renewable energy options – production in GWh	0	8,350	29,229
EREP renewable energy options - % of electricity demand (excl. medium and large hydro)	0%	5%	12%
RE production Share	26%	23%	31%

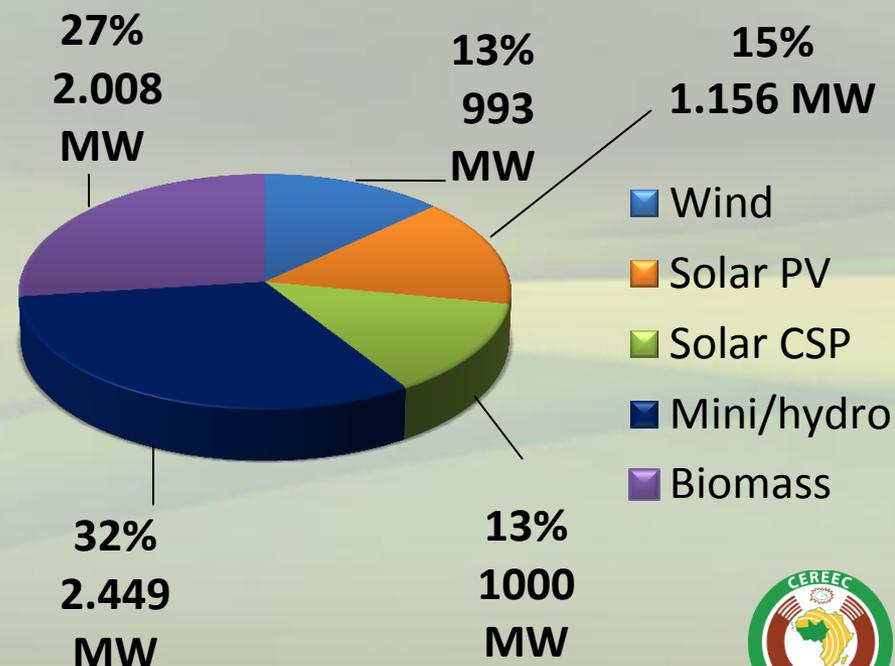
GRID-CONNECTED RE SCENARIO OF ECOWAS BY 2020/2030 (excl. medium and large hydro)

Individual countries decide on RE mix!

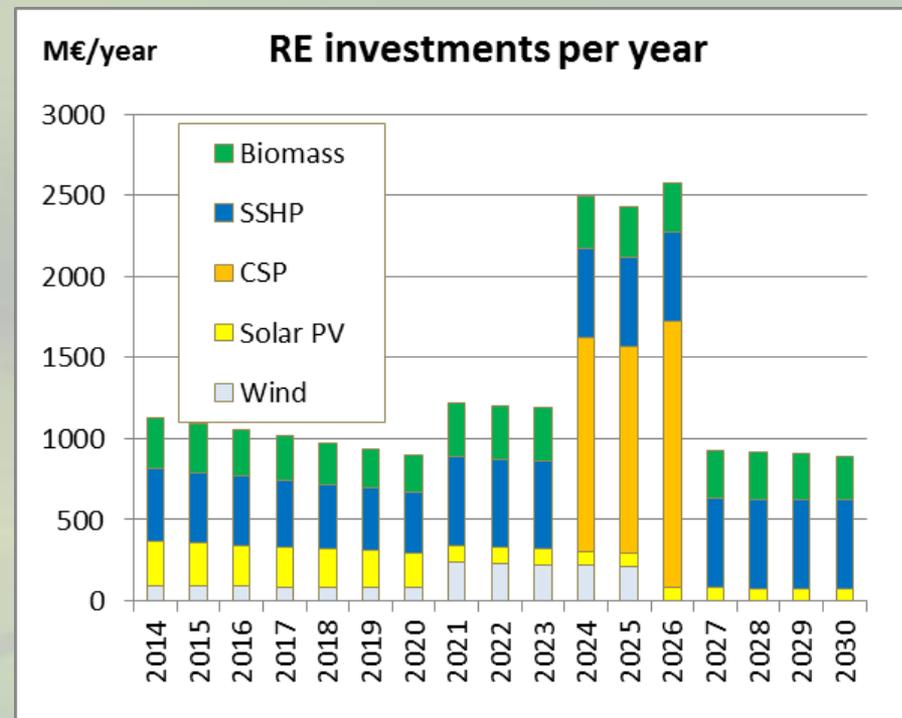
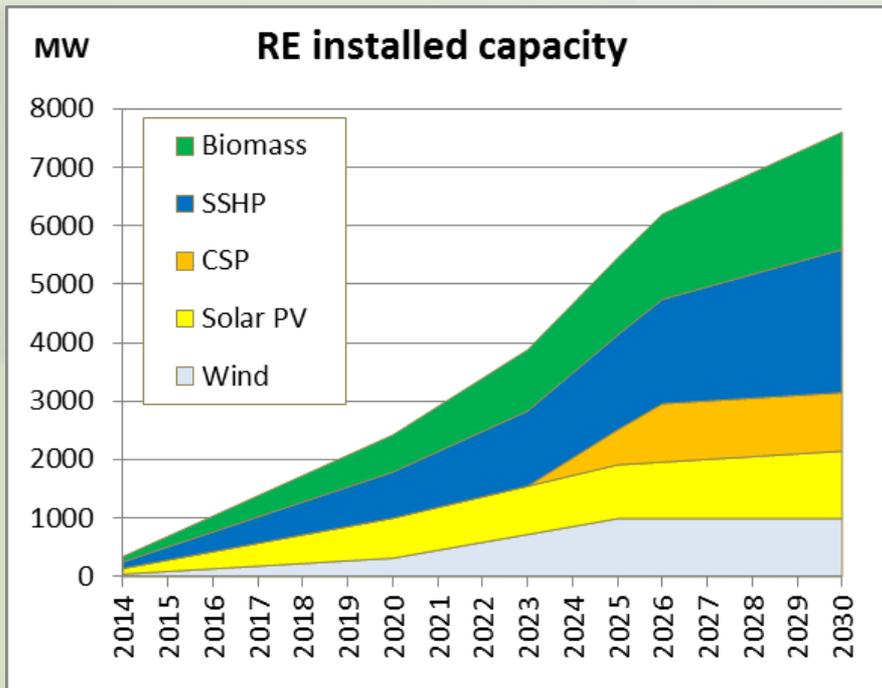
Installed RE Capacity 2020
2,425 MW



Installed RE Capacity 2030 –
7,606 MW



ECOWAS RE POLICY TARGETS BY 2020/2030

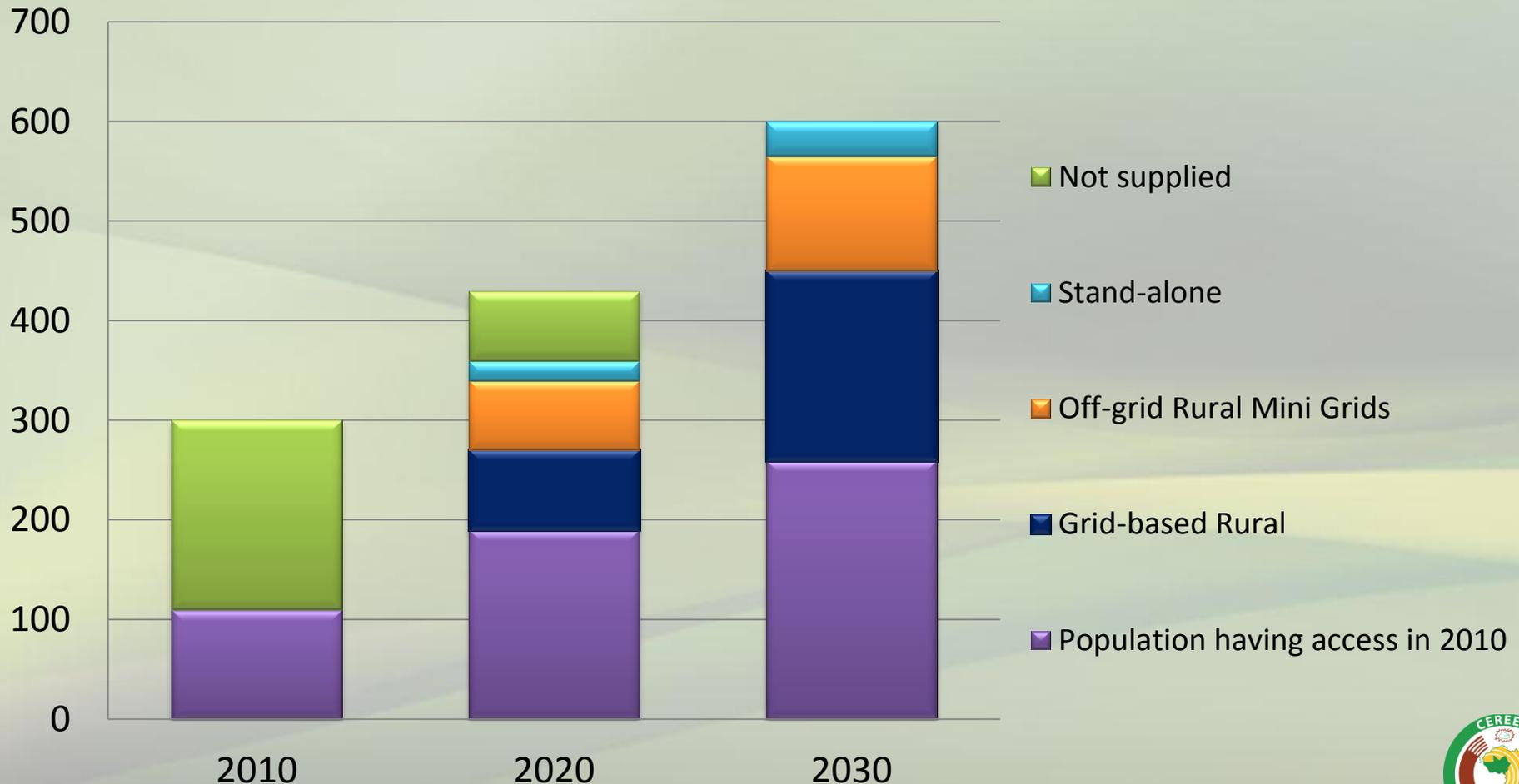


ECOWAS ENERGY ACCESS TARGETS BY 2020/2030

Rural RE Electricity Targets	2010	2020	2030
Share of rural population supplied by mini-grids and stand-alone systems in %	?	22%	25%
Mini-Grids to be installed		60,000 3,600 MW	128,000 7,680 MW
Stand-alone systems		210,000	262,000

ECOWAS RE POLICY TARGETS BY 2020/2030

Population in mio inhbts



Synergies to the ECOWAS EE policy

By 2013, create the institutional basis for priority regional initiatives, with the following concrete objectives:

- lighting: phase out inefficient incandescent bulbs by 2020;
- electricity distribution: reduce electricity distribution losses from the current level of 15 -40% to under 10% by 2020;
- cooking: achieve universal access to safe, clean, affordable, efficient and sustainable cooking for the entire population of ECOWAS, by 2030;
- standards and labels: establish an ECOWAS Technical Committee for Energy Efficiency Standards and Labelling, and adopt initial region-wide standards and labels for major energy equipment by end 2014;
- by 2015, begin implementation in each ECOWAS country of at least one priority initiative;
- by 2016, implement measures that free 2 000 MW of power generation capacity: the equivalent of creating forty virtual EE power plants, with a capacity of 50MW each, available to power development, serving new users and new needs.

Setting National Targets

- **Each Member State will develop or confirm a set of national targets for renewable energy applications, according to their detailed resources assessment and their grid capacity to connect renewable energy over the time period.**
- **National targets will be based on the most appropriate least-cost technology options for the different energy market segments: grid-connected, off-grid, stand-alone and micro systems, domestic energy, LPG, charcoal production.**
- **In order to fulfil the quantitative and qualitative targets, portfolios of bankable projects that can be attractive for private investors and financial institutions must be developed.**
- **Some countries already have specific policies covering some aspects of the regional renewable energy policy.**



Developing a National Renewable Energy Policy (NREP)

- **Based on the targets and the selected technology options, Member States will develop a policy and an implementation strategy covering the period up to 2030.**
- **The policy will contain an action plan for the period up to 2030 and expected to be reviewed every five-years.**
- **The Member States will also select a modus operandi for implementing their NREP based on the action plan.**



The ECOWAS NREAPs Process

- **The ECOWAS Renewable Energy Policy (EREP) contains a set of regional and national activities that must be implemented.**
- **Action 2 of the EREP:** Each Member State will develop National Renewable Energy Action Plans (NREAPs) and develop/revisit their National Renewable Energy Policies (NREPs)
- NREAPs to be developed by the end of 2014.
- Similar process to development, implementation and monitoring of the EU Directive 2009/28/EC on Renewable Energy



PROCESS FOR THE ESTABLISHMENT OF THE NREAPS AND NREPS

1st Stage: Preparation

(Jul 2013- Jun 2014)

Out1 : Effective guidance is provided to the ECOWAS MS in design & development of the NREAPs

1.1: Template & guidelines for NREAP

1.2: National Consultants are recruited & Country Groups are formed

1.3: Selection of supporting software for scenario development

1.4: Capacity is built on the development and design of NREAPs in the ECOWAS MS

1.5: Build catalogues on policy incentives and delivery models for rural electrification

2nd Stage: Development

(Apr 2014- Dec 2014)

Out 2 : Effective guidance and support is provided to the 15 ECOWAS MS in identifying gaps in their policies and in the design and establishment of the NREAPs

2.1. Regional Kick Off on the development of the NREAPs in the 15 ECOWAS MS

2.2. National Kick Off of the NREAPs

2.3. Baseline data collection and validation

2.4. Definition of measurable and achievable RE targets at the individual ECOWAS MS

2.5. Development of scenarios for RE deployment for the years 2020 and 2030 and in the development of the NREAPs

2.6. 15 NREAPs and NREPs are prepared and ready for implementation

3rd Stage: Implementation

(Jan 2015 – Dec 2030)

Out 3: Effective implementation of the defined NREPs and NREAPs towards the achievement of the ECOWAS EREP goals for 2030

3.1. The NREPs and NREAPs programmes/actions/measures are implemented and monitored by the Ministries and ECREEE annually

3.2. EREP goals and targets are achieved in the ECOWAS region



Next Steps !!!

- **Commissioning the national consultants**
- **Formation of the country groups**
- **Launch the NREAPs process in each Member State**



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Thank you! Merci! Muito Obrigado!

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