

United Nations Environment Programme en.lighten initiative

Transition to efficient lighting -**Current situation in selected ECOWAS countries**

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ECOWAS Regional workshop on Initiatives on Standards and Labeling, Efficient Lighting and Energy **Efficiency in Buildings**

22 April 2013, Ouagadougou, Burkina Faso









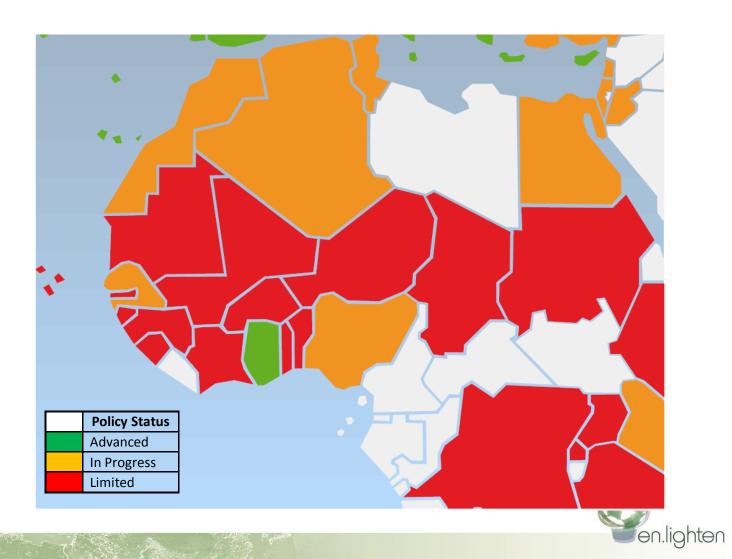
Transition to Efficient Lighting

- "Sustainable, effective and long term transition requires integrated policy with key elements:
- Minimum energy performance standards (MEPS) & labeling schemes
- Supporting policies and mechanisms
 - raising public awareness
 - fiscal incentives
- Monitoring, verification and enforcement
- Environmentally sound management
 - sound waste management



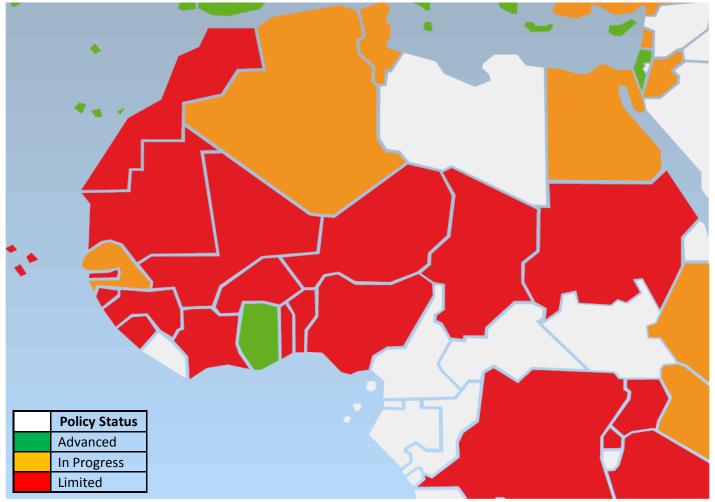


Lighting Policy Status - Overall





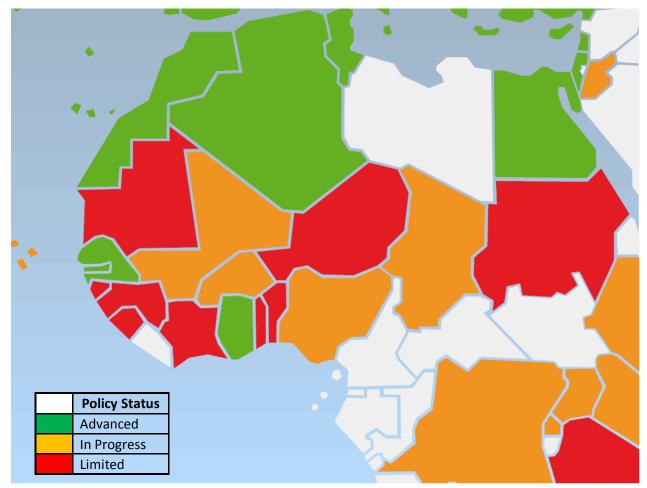
Lighting Policy Status – Regulatory Mechanisms







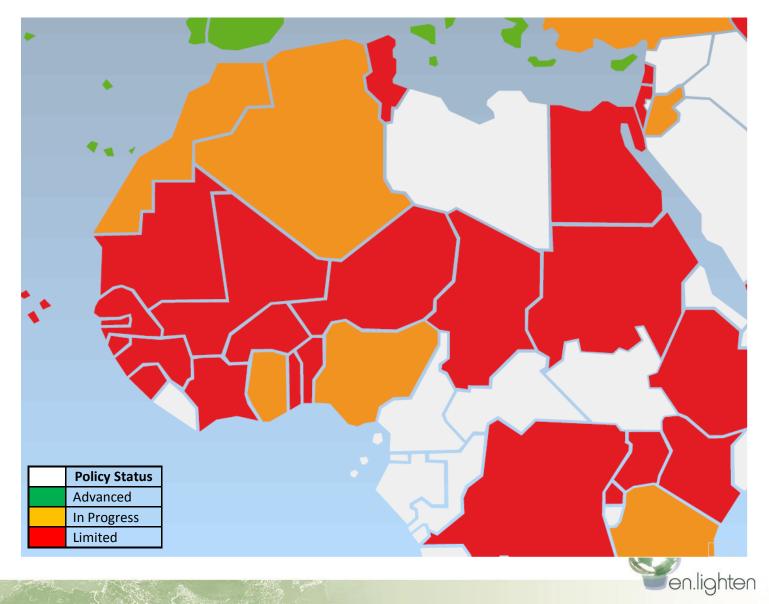
Lighting Policy Status – Supporting Policies





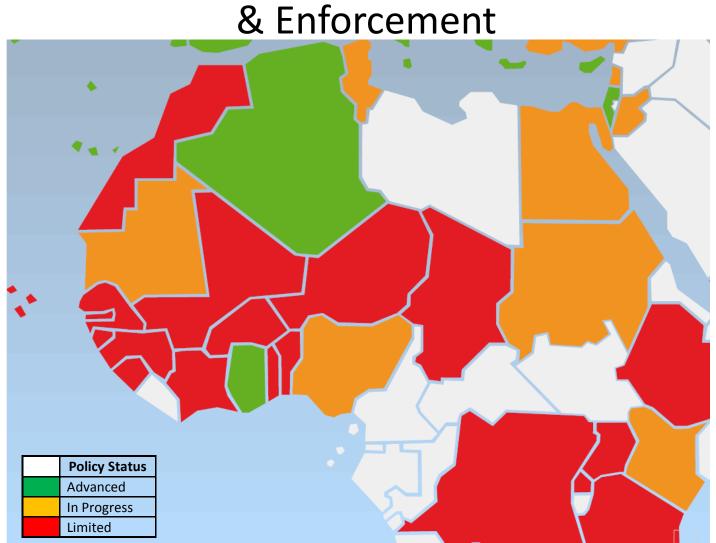


Lighting Policy Status - ESM





Lighting Policy Status – Monitoring, Verification







National Initiatives on Efficient Lighting

- " Mandatory MEPS and labeling for CFLs in place Ghana
- Completed Draft MEPS for CFLs Nigeria, Senegal
- " Plan to prepare draft MEPS Cote d'Ivoire, Cape Verde
- "Banning of importation and production of incandescent lamps Senegal, Ghana
- Awareness raising campaigns on energy-efficiency and conservation - Cape Verde, Gambia, Ghana, Senegal
- National bulk procurement and distribution programs for CFLs - Burkina Faso, Cape Verde, Gambia, Ghana, Mali, Nigeria, Senegal and Togo

Other Initiatives

- Lighting Testing Facility Nigeria, Ghana
- Development of sustainable markets efficient offgrid lighting technologies e.g. LED (Lighting Africa program)- Ghana, Nigeria, Senegal
- Consumer & retail education campaigns on LEDs (Lighting Africa program) - Liberia, Ghana, Mali, Senegal
- " Distribution of off-grid lighting products to rural NGOs) - Liberia, Mali, Burkina Faso, Senegal

Benefits of Efficient Lighting in ECOWAS Countries

Country	Electricity Savings (Million USD)	Energy Savings (GWh)	CO2 Reductions (kt CO ₂)	Payback (months)
Benin	5	40	25	2
Burkina Faso	7.5	30.7	22.4	2
Cabo Verde	14.7	37.3	31.9	1
Cote d'Ivoire	21.8	254.9	108.6	5
Gambia	1.3	5.4	4.6	1
Ghana	44.8	375	90.9	4
Guinee	3.4	33.7	17.6	5
Guinee Bissau	1.2	3.1	2.7	1
Liberia	4.8	14.3	10.6	1
Mali	7.6	33.4	16.7	2
Niger	2	20	17.2	3
Nigeria	84.9	1380	580	7
Senegal	27.2	135.2	76.7	3
Sierra Leone	1.3	4	3.5	1
Togolese	3.6	24.9	4	3
TOTAL ECOWAS:	231.30	2,387.4	1,012.4	2.73

Barriers to Transition to Efficient Lighting

Regulatory framework

 lack of comprehensive national policies encouraging energy efficiency

" Technical barriers

- product quality
- capacity of efficient lamps to resist high voltage fluctuations

" Financial

- high initial costs of efficient lighting
- Market and information barriers
 - low level of public awareness of benefits of efficient lighting





Conclusions

- Surveys and studies show
 - Successful pioneering initiatives
 - Wide social acceptance for energy efficient lighting programs
- Massive migration towards efficient lighting technologies is anticipated
 - Addressing regulatory, technical, financial & information challenges







Thank You

www.enlighten-initiative.org







