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Conserve energy……Save Environment……

Use energy efficient appliances……

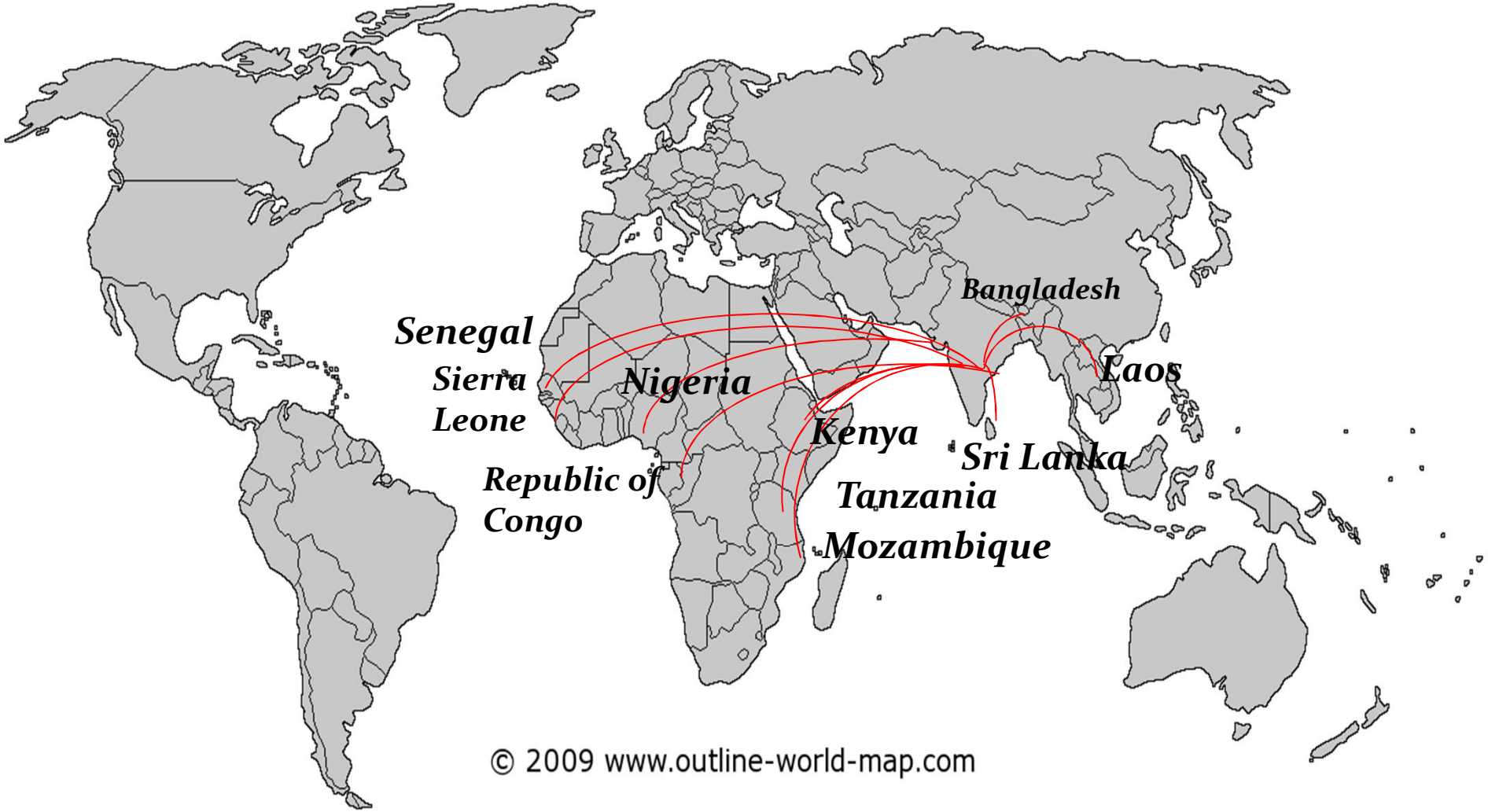
ECOWAS Presence of Our Products

- Senegal,Nigeria
- Online Project in Mali ,Niger
- Several enquiries from several countries Ater Lighting Africa Conference in Nov 2012
- Associated with a Technically competent firm in Dakar to explore ECOWAS Market
- We are not Limited to Just three Lighting Arica products as we eel that the ground requirements will be more than Lighting
- Focus is Phase 1 Lighting then Schools Hospital primary health centers Residential Hostels Farmers Agri related operations Community Mobile Laptop and Kindle Charging stations
- Employment empowerment training and sustainability
- Solar Agri releated solution like pump sets and power generation when Pumping is not required

Projects done in Africa & India

- Solar Community Charging Station in ***Republic of Congo.***
- Solar Community Charging Station in ***Mozambique.***
- Solar Community Charging Station in ***Raichur, Karnataka, India.***
- Solar Community Charging Station in ***Prakasham Dist, Andhra Pradesh, India.***
- Solar Community Charging Station in ***Guntur Dist, Andhra Pradesh, India.***
- Energy savings LED Lighting Solutions at ***Rama Krishna Math Hyderabad.***
- Energy savings LED Lighting Solutions at ***Institute of Engineers Hyderabad.***
- Solar community charging station in ***Jammu & Kashmir.***

Foot Print


Bangladesh
Senegal
Sierra Leone
Nigeria
Laos
Kenya
Sri Lanka
Republic of Congo
Tanzania
Mozambique
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Electrification in Africa

- According to figures from the International Energy Agency, 59 per cent of the population of Africa has no access to electricity. As on 2012.
- Outside the urban centers that figure rockets to 85 per cent
- Current development trends suggest that by 2030 almost 600 million people will still lack access to electricity across rural Africa.
- Countries: 54
- Area: 11,668,599 sq m
- Population: 1,100,171,000
- Grid Power availability: 150GW(Approx as on 2011)

Kerosene Lamps

- The power consumption in Africa is based on oil, which means that **38 out of 54 African countries are currently net oil importers**
- A kerosene lamp producing 37 lumens for 4 hours per day will consume about 3 liters of kerosene per month
- Kerosene price $4 per liter, $12 per month, $144 per year
- Solar lantern cost $ 40 will gives backup of 20Hours and 80-100Lumens lighting also charges mobiles
- Can save $100 per year and 36Lts per lantern per year kerosene imports will reduces.

Solar energy in Africa

Lesson learnt from working in Africa

- Language Most of the East Africans Speak French, The Solutions for rural market of Africa.
- Transportation in sending material and Training
- Material Supply on Credit Basis
- Most of the African countries are charging large duties
- Most Of the African Countries are Imposing import duty at higher rate basis. When the duty is at higher Price .Importers are not able to sell Quality Products

Satellite image of city lights in Africa

Recommendations to the policy makers in the West African region

- Policy makers of ECOWAS must look at future demand or energy when income generation take place and per capita needs increase,adapt models from countries which have similar problems Like India and China and South east Asia which have partially surmounted such issues
- Generation will be limited in most countries for variety of reasons
- Unless power is available there will be no social development and improvement in health disease control small scale business development , prevention o migration from rural to urban
- Agriculture which is main stay o many rural people needs sustainable power and not grid dependendent .The activity has impact on GDP food security and food prices. In India people wait or several hours for a few hours o low quality power to pump water and when they ail to do so they die of poverty
- Do Not ingore Micro grids Pico and Nano Hydel and small local sustainable grids
- Make a comprehensive plan or the next 30 years and not based on lantern and small need technology
- Cell Towers (Africa tower Example)
- Not building Agriculture and health sector power integration will be very very costly in the immediate and long run