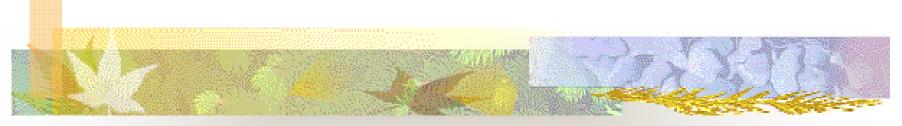


ENERGY EFFICIENCY



MOSES MAMMUSA GABRIEL CAMPBELL Snr. ELECTRICITY ENGINEER



Presentation Outline

- 1. PURA's Mandate
- 2. ES Lamps
- 3. EE activities
- 4. Energy Management System
- 5. Electricity meter model
- 5. Regulation Targets
- 6. Energy saving tips
- 7. Conclusion
- 8. Recommendations

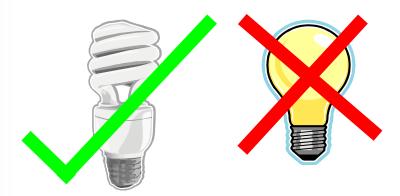


PURA - MANDATE

- PURA Act 2001
- Promotion of Competition
- Ensure Efficient Operations
- Introduction of New & Innovative Technologies
- Services Affordable
 - Available
 - Accessible
- Sensitize Public



Energy saving lamps



ES lamps:

- > Save energy
- ➤ Use 80% less energy
- > less heat
- > lower bills
- > environmentally friendly
- > less CO2 emission
- > improve system voltage & stability

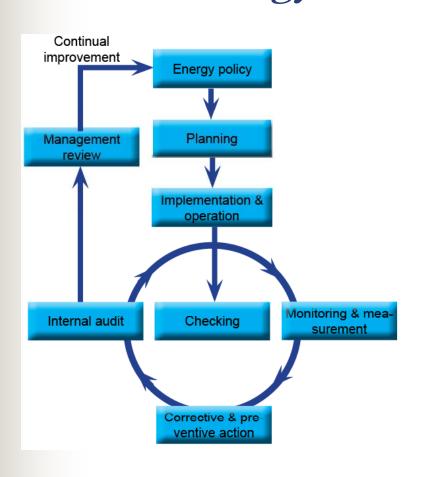


PURA EE PROJECTS

- 1. 2000CFLs Kanifing
- 2. 1000 CFLs Banjul
- 3. Street Lights Research
- 4. Awareness Program



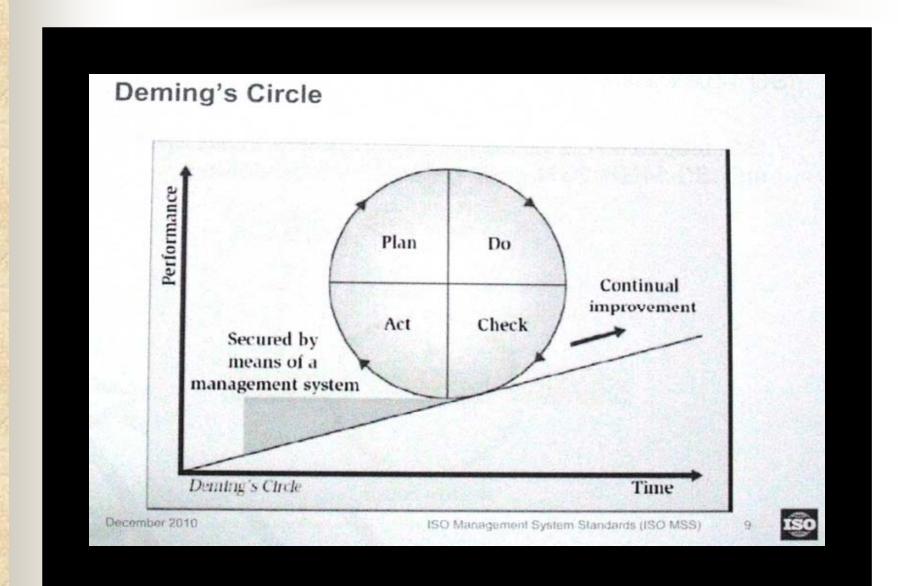
ISO 50001 Energy Management System











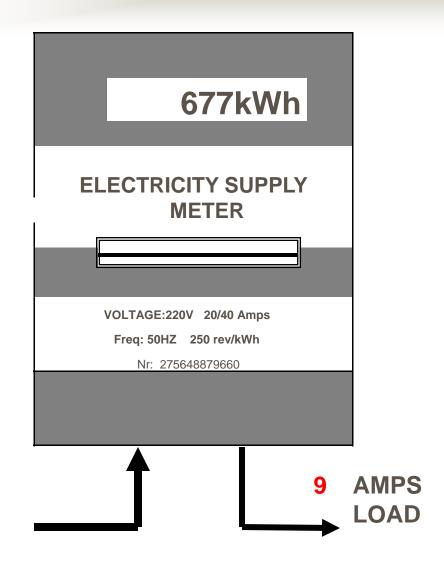


Electricity Meter Model

TOURE TARIFF Calculation of Dalasis Equivalent HOURS KWh/Dav kWh/Mth **APPLIANCES** No. (W) kW Tot kW Band 1 Band 2 Band 3 Band 4 100 0.10 1.92 6.20 6.65 0.03 W/Dispenser 125 0.13 250 0.25 560 76.80 Sew Mach 12 250 0.25 12 D/FREEZER 0.25 kWh kWh 250 kWh RADIO 0.08 0.5 75 E/IRON 2,000 2.00 **AIRCO** 6,000 6.00 C-TOT C-TOT C-TOT **FRIDGE** 150 0.15 18 **STEREO** 250 0.25 560 76.80 0.15 C/FAN 150 FAN 75 0.08 7 (0-40kWh) (41-600)(601-1000) (Over 1000) **COMPUTER** 250 0.25 E.S. Lamp 9 0.01 FL Lamp 36 0.04 LAMPS 0.04 1.88 22.6 676.80 TAPE 123.50 676.80 76.80 3,472.00 510.72 TOTAL









Regulation Targets

- 1. Inspection & Certification
- 2. Type Approval
- 3. RE Projects





Energy Saving Tips









---Change lamps to Energy Savers

REFRIDGERATORS: Do not leave doors open for long

AIR CONDITIONERS: Do not operate with windows open

LIGHTING: Use Natural illumination

Switch off if not required

TENNANTS: Use Slave Meters

CASHPOWER: Eliminates Billing & Arrears

SMALL SCALL IPP: Use of Solar Energy

WATER HEATERS: Use 60 degree setting to

avoid calcium



Conclusion

Our World is rapidly being destroyed by manmade pollution of the atmosphere resulting in depletion of the protective ozone layer and increase in global temperatures called global warming. It is time we act and do so collectively to reduce the drastic effects of climate change, by Adopting new and renewable clean technologies to fulfil our daily energy requirements. We do not inherit the Earth from our ancestors but rather we have borrowed it from our children so we owe it to them to have sustainable solutions to the problems posed by climate change.



Recommendations

- 1. Create incentives and encourage widespread use of Solar
- 2. Replace existing Provincial Power Stations with Solar Power Plants
- 3. Shift from Oil based Generation to Renewable forms of power generation.
- 4. Develop a legal framework for the RE sector.
- 5. Ban both the importation and use of incandescent lamps
- 6. Implement a type approval regime
- 7. Start testing and certification of installations.



THANK YOU



FOR YOUR ATTENTION