



Public Utilities
Regulatory Authority
Equity in development

Regulating RE in the The Gambia

Progress made since 1st Forum

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PURA

Recap from last year

- 1st RE Forum

- 31 January – 1st February 2012

- NARUC

- Wisconsin / California

- ECREEE

- Funding facilities and capacity building

- Cape Verde

- Wind energy development

- Ghana

- Energy labelling of appliances

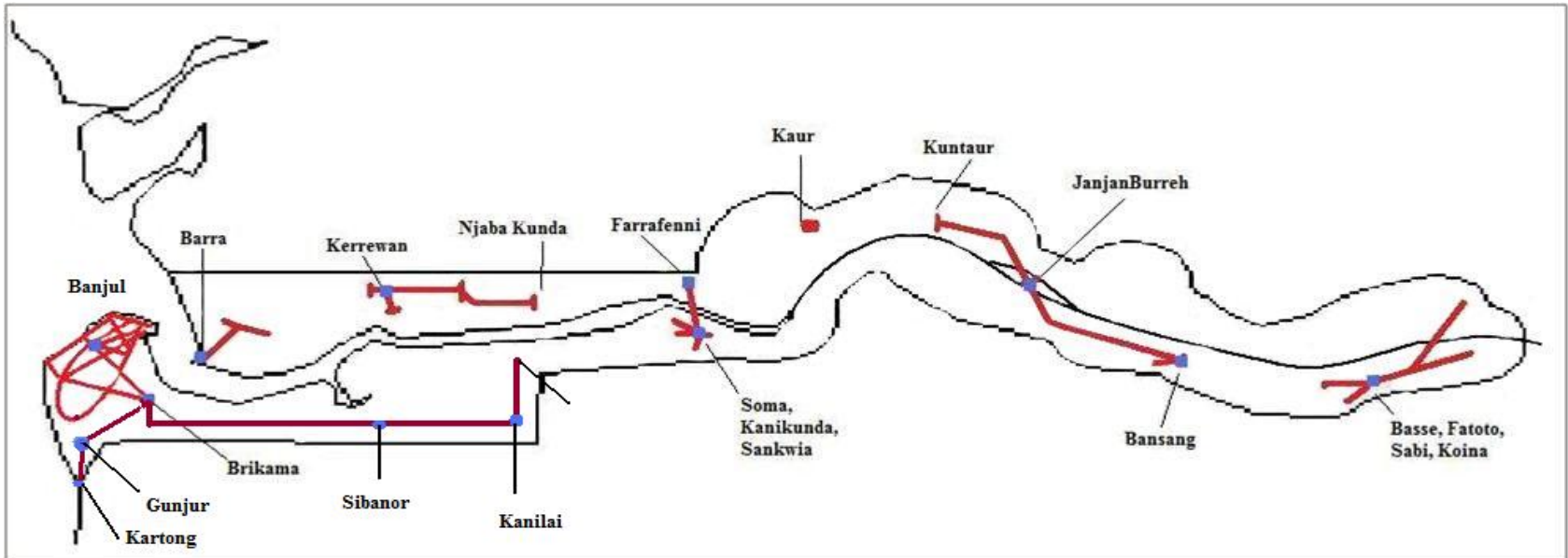
Forum Conclusions

Recommendations	2012	2013	Remarks
Draft RE law	✗	✓	MOE sent to MOJ for final review
Develop standard PPA for RE	✗	✓	Done
Feed in Tariffs	✗	✓	Done (awaiting RE Law)
Wind Energy Development Zones	✗	✗	No progress
Energy Efficient labelling and Standards	✗	✗	Little progress
Encourage RE IPPs	✓	✓	1 implemented
Net –Metering	✗	✓	Pilot cases connected
Interconnection Guidelines	✗	✓	Developed

Regulatory Experience: Lessons learnt

- Wind was a new potential energy source
 - Domestic / no indexation/ cheaper
- Grid Access must be made easier
 - Cannot be denied un-necessarily
- PPA negotiations have been simplified
 - Standard PPA
- Monitor Technical issues
 - Hz deviations etc
- PV modules getting cheaper and competitive D66/W or (\$2.08/W)

National Electrification



- Network more developed along the coast
- Lack of national transmission backbone

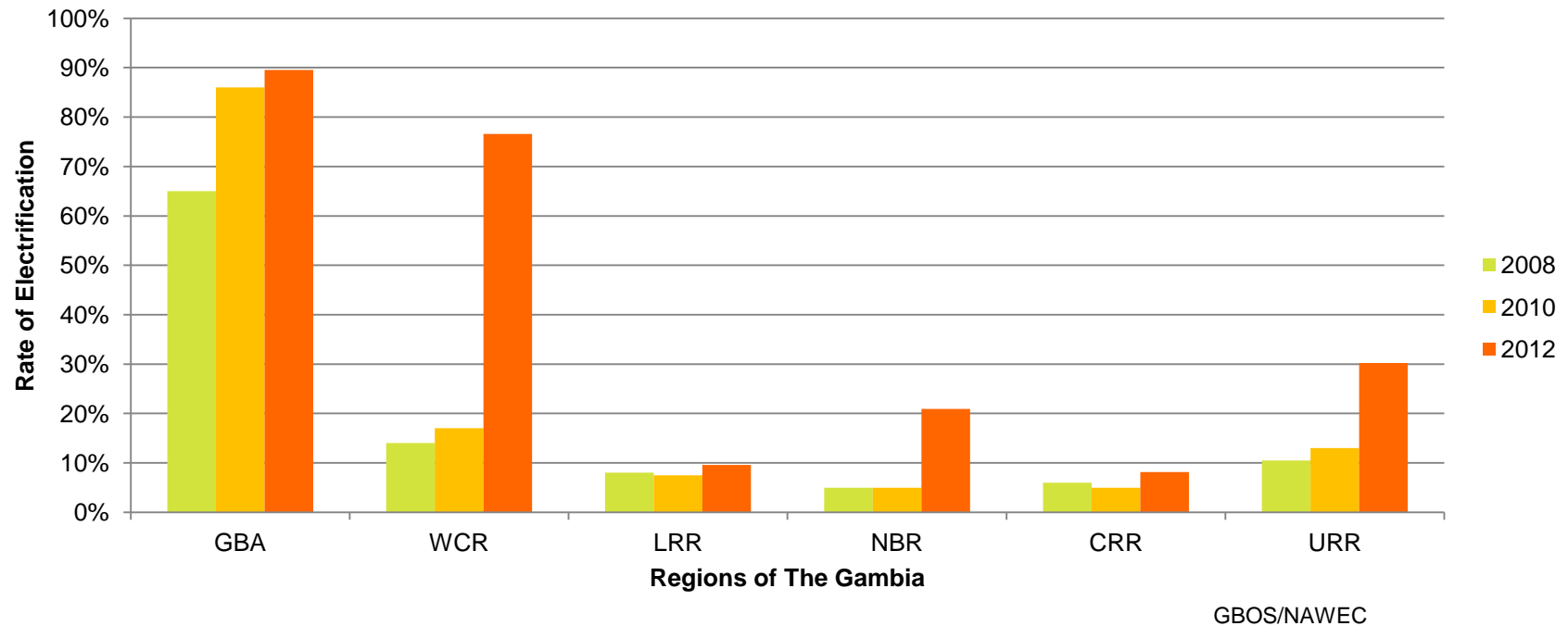
Tariff increase June 2012

Electricity				
Customer Category	2011 Tariff	2012 Tariff	% increase	US \$ /kWh
D/kWh	D/kWh	D/kWh		
Approved Domestic (prepayment flat)	7.20	9.10	26%	0.28
Commercial	8.60	9.70	13%	0.30
Hotel / Club / Industries	8.95	10.40	16%	0.33
Agriculture	8.00	9.10	14%	0.28
Area Councils	8.70	9.70	11%	0.30
Central Government	8.70	9.70	11%	0.30

US \$1 = D32

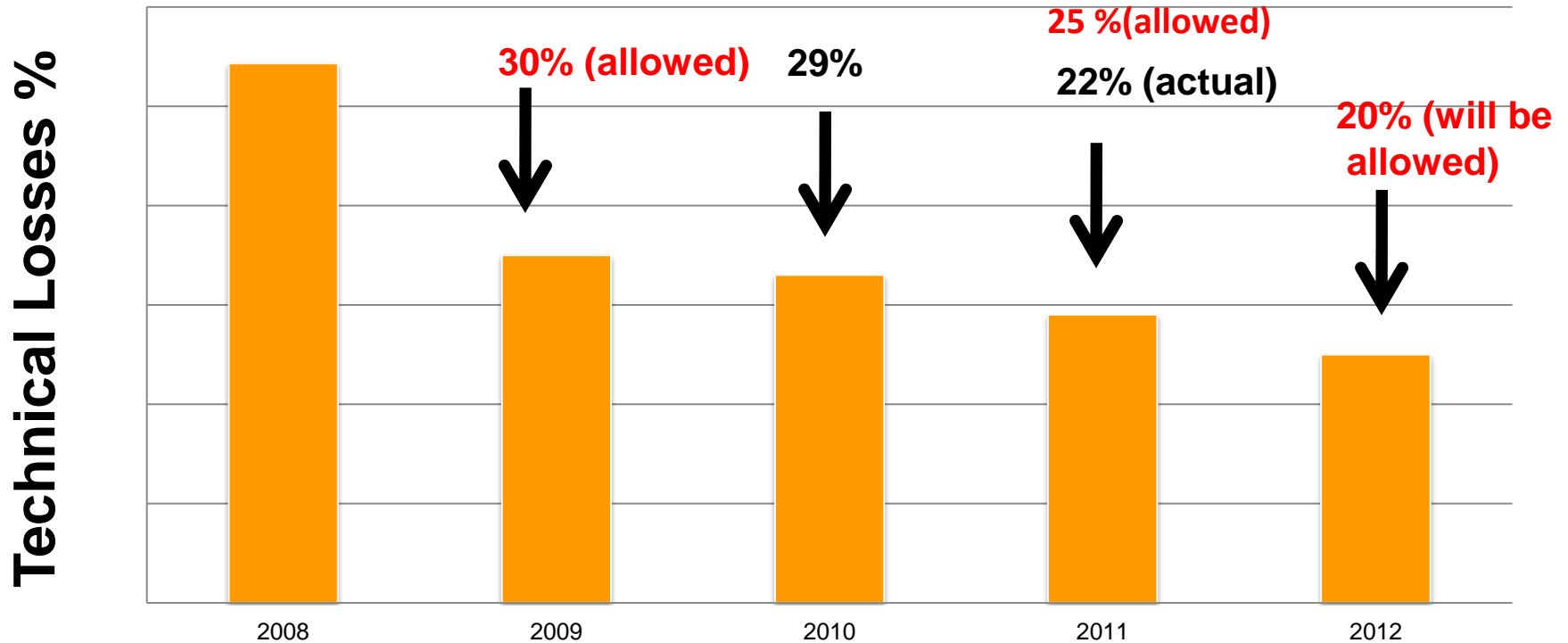
National Electrification

**Electrification Rate by Region
2008 - 2012**



Energy Efficiency – Loss Reduction & Tariffs

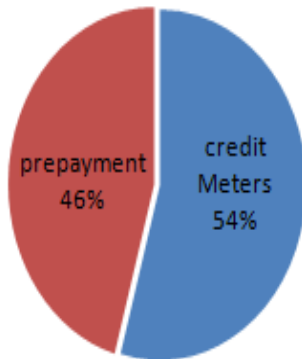
Incentive Based (Electrical Loss Reduction) Tariff Determination



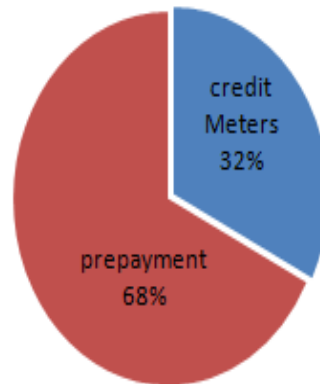
Reducing Commercial Losses :

Prepayment metering 2001 -2012 (Mandatory)

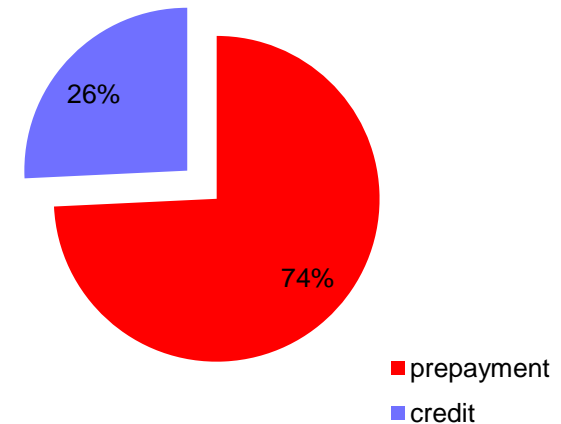
2008 Customer Base



2011 Customer Base



2012 Consumer Base



Energy Efficiency -II



- Energy Efficiency Awareness Campaign
 - On Newspapers & Radio Programmes
 - Presentations and Demonstrations
- 2008/2011 CFL Pilot Projects
- Installed 2000 bulbs in Kanifing South
- Installed 1000 bulbs in City of Banjul
 - Switched for free /incandescent bulbs
- Reduce domestic consumption
- Saving for consumers
- Improvement in voltage levels



New Challenges emerging

- People are now very aware of efficient lighting
 - CFLs / LED
- Issue is now of quality
 - Cheap CFL cost 1/3 of good ones
 - D100 Philips / D35 'Chinese' brands
 - Issues of Standards
 - Ghana has Quality labels (mandatory)
- Continued consumer education
 - Market regulation etc

GAMWIND Ltd



Skills Transfer / Know -how



Net-metering (Renewable)

- Allow small LV producers to be connected
- 2kW Pilot working
 - Nice Gambia
- 20kW solar PV
 - @ Leo's Hotel
 - Huge Solar potential



RE Law in Detail

- FIT mandatory for grid tied
 - Tax free investment
 - No corporate tax (15 yrs)
 - 6 months after law is a passed
 - FIT Regulations
 - Eligibility criteria has been defined
 - Project size limited to 1.5MW
- RE Law
 - GG to set target for RE penetration
 - RE Fund
 - Regulation of installations
 - Streamlined permitting of RE investment

RE Fund

- Fund will be managed by PURA
- Mini grids
- Rural electrification support
- Funds can also be used to promote RE projects
 - Co-funding or total depending on size
 - All RE technologies eligible
 - Solar water heating
 - Funding from GG, bilateral funds, local stakeholders

Regulation of Installations

- Installers of all PV installation must provide min. 6 months Guarantee
 - Equipment and Installation
- All installations must be certified
 - Register of PV installers
- Development of regulation and standards on PV modules especially

Way Forward

- Discuss current constraints in this Forum
- e.g. investment
- Stronger regional and international partnership
- Make new recommendations for both
 - Policy formulation
 - New Regulatory approach

Thanks
see @pura.gm