

Rural Electrification and Opportunities for Gender Integration in Mali

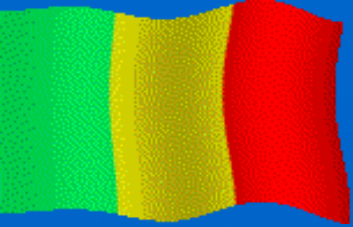


Africa Renewable Energy Access Program (AFREA)

**Alassane Agalassou ,
Director of Rural Electrification
AMADER/MALI**

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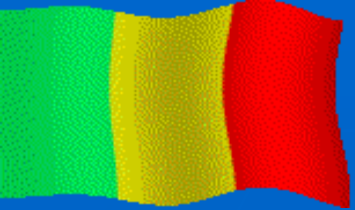


Introducing AMADER



- AMADER is a rural electrification Agency and was created in 2003 (Law N°03-006 of May 21, 2003) as a public corporation with financial autonomy, to implement the RE policy as well as the household energy (HE) policy.

- AMADER:
 - (1) promotes electrification in rural and suburban areas;
 - (2) works with all types of operators, national and international private operators, NGOs, decentralized groups, cooperatives, etc.
 - (3) provides technical assistance and financial support (Investment subsidies)
 - (4) acts as *de facto* regulator in rural and suburban areas



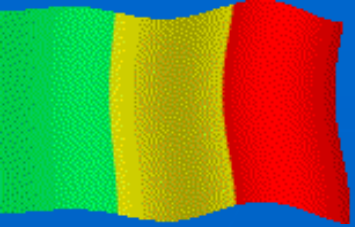
Strategy



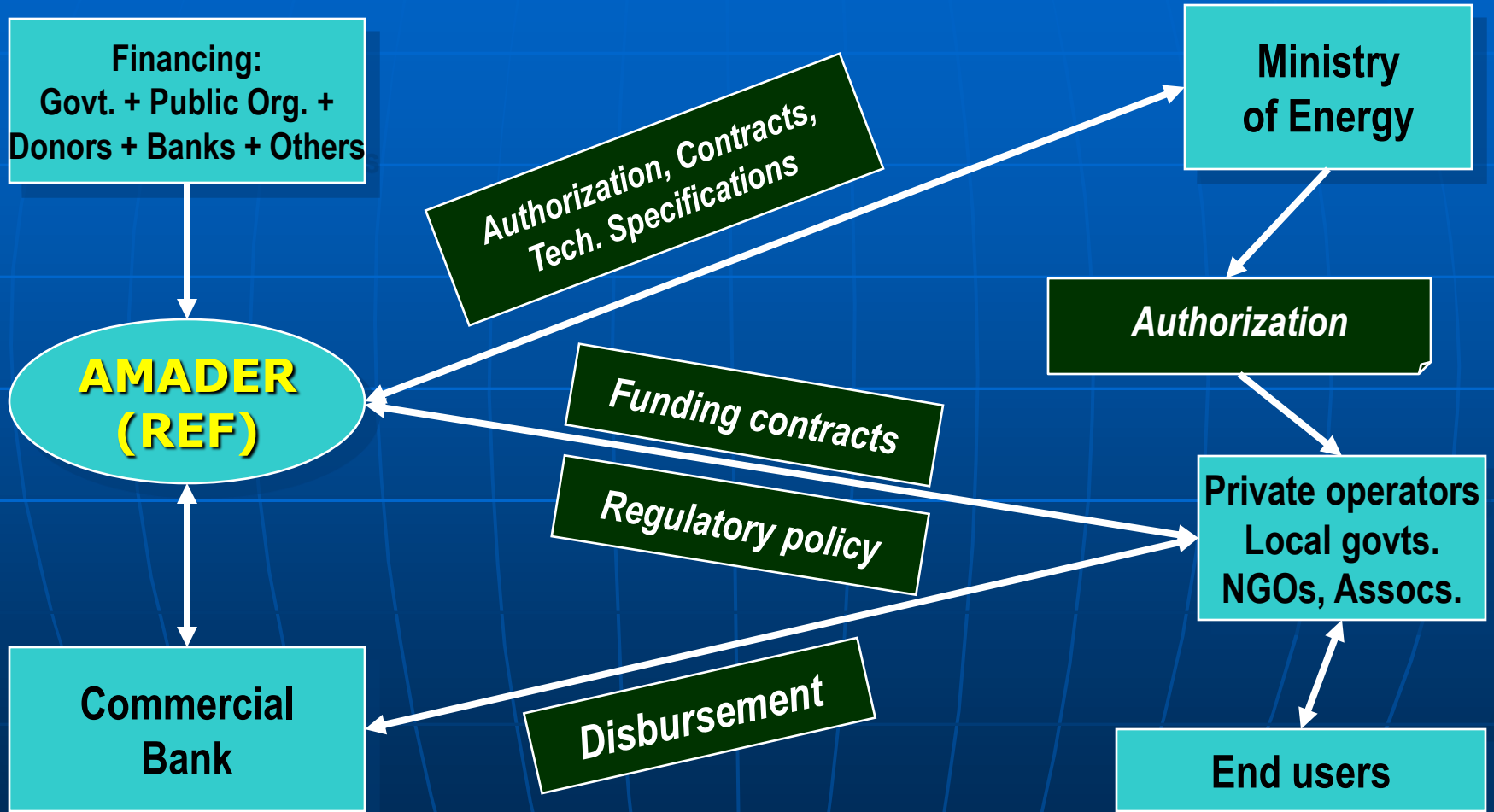
Dual Approach:

- Top Down: *Priority Electrification Zones* (“ZEM”)
 - AMADER solicits bids for the electrification of designated areas. Selection through direct competition among bidders. Promoters submit proposals in response to calls. Project selected on the basis of lowest tariff.
 - In poorer rural areas, where sponsors are hard to come, REF finances feasibility studies and put projects up for bidding. Lowest tariff wins.
- Bottom up: “spontaneous” private initiative (“PCASER”)

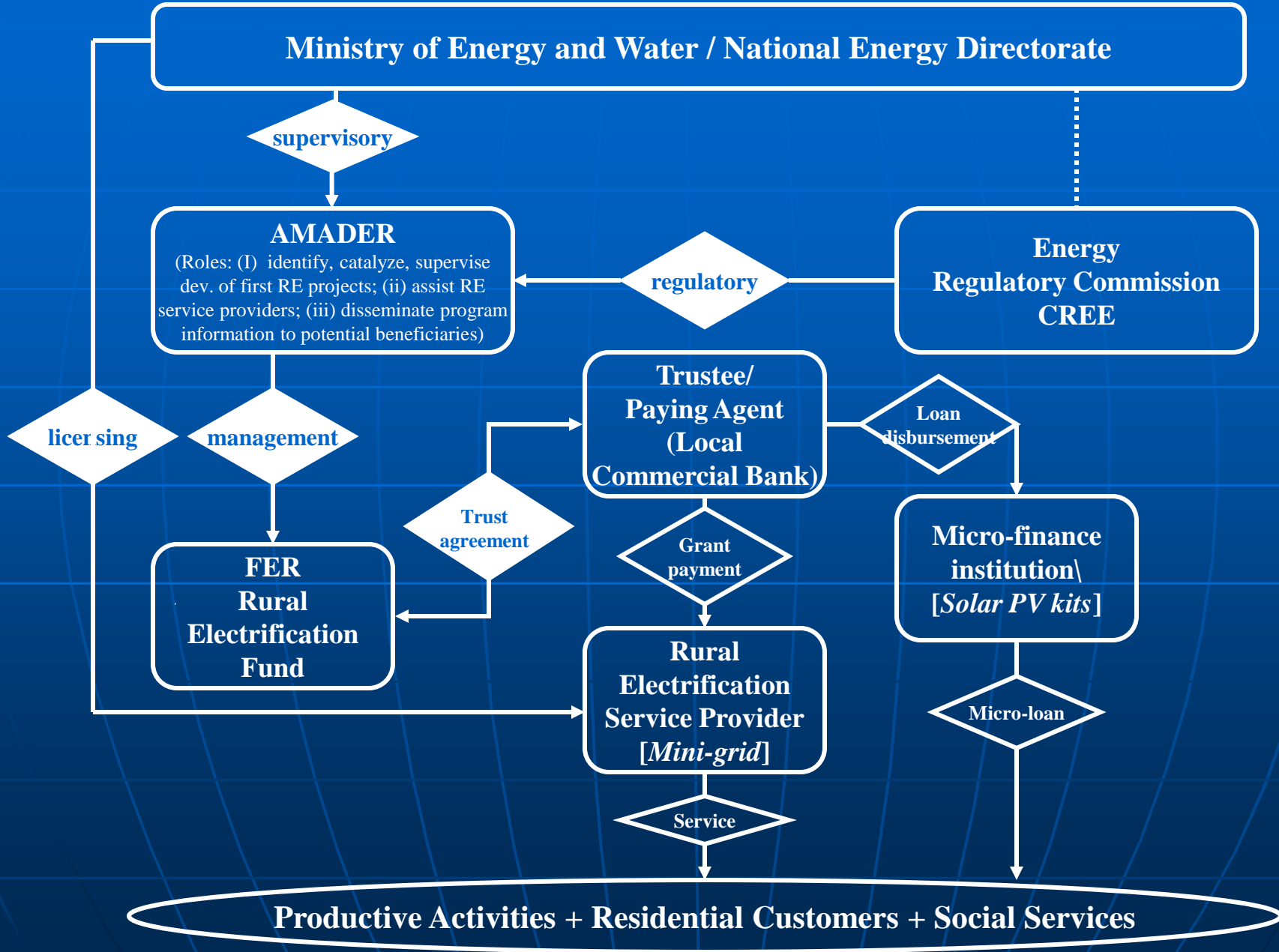
Projects selected based on promoters’ ability to develop and operate a viable project with a fixed investment subsidy (80% , \$500,000 max). Subsidies are established on the basis (i) number of customers connected during the first two years (ii) the average tariff (iii) subsidy by customer connected (total investment/number of customers).



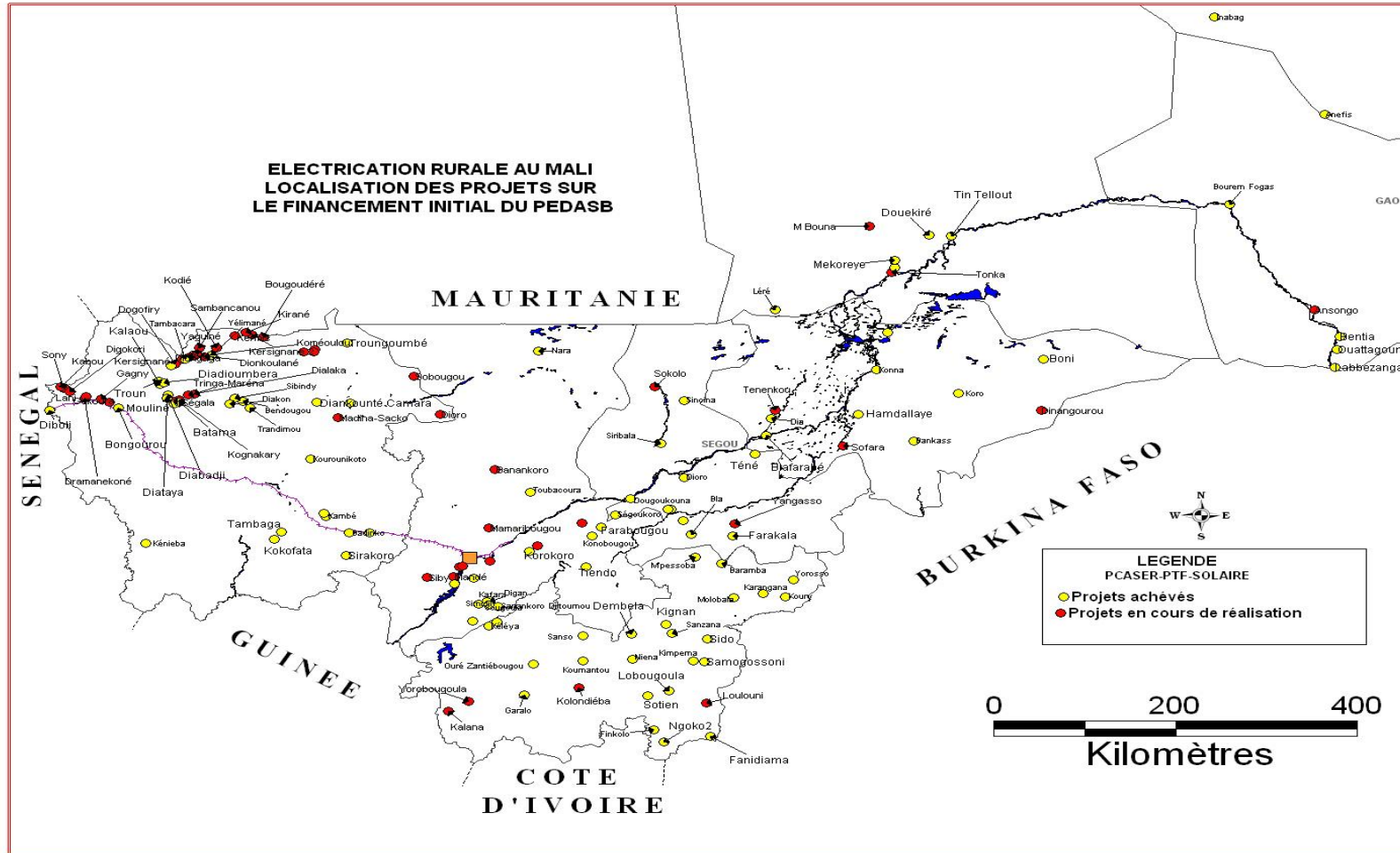
REF Structure



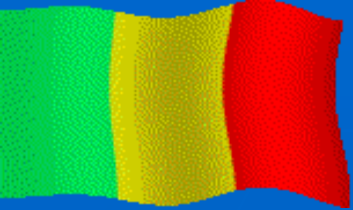
Relationships Among the Various Rural Electrification Actors



Localisation territoriale des projets d'ER



- 50 private operators ; 54 000 connections en dec 2010; 13,39% rural electrification rate at the end of 2009 (coming from 1% in 2006).



Gender in The ongoing Household Energy and Universal Rural Access (HEURA) project

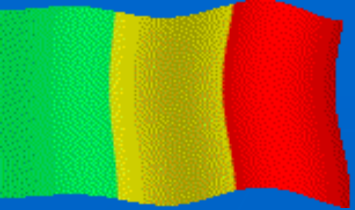


HEURA Project overview

The Household Energy and Universal Rural Access (HEURA) Project supports the Government of Mali's efforts to increase the access of isolated low income populations to basic energy services to help achieve economic growth and poverty reduction targets, including those linked with the Millennium Development Goals (MDGs).

The development objectives are:

- (i) accelerating the use of modern energy in rural and peri-urban areas in order to increase productivity of small and medium enterprises, to enhance the quality and efficiency of health and education centers, and to improve living standards;
- (ii) promoting further community-based woodland management to reduce un-sustainable pressure on forest resources while simultaneously encouraging interfuel substitution and energy efficiency initiatives; and,
- (iii) strengthening energy sector reform processes and related institutions to create a favorable investment environment for increased private sector participation in decentralized energy services delivery in rural and peri-urban areas ■



Gender in The ongoing Household Energy and Universal Rural Access (HEURA) project

- Activities carried out of the HEURA having for actors or recipients women

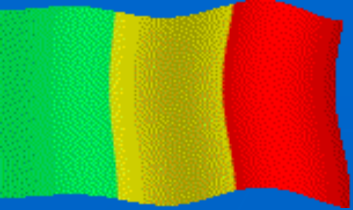
Women's associations are playing an important role in remote communities as providers of energy services.

They manage multifunctional platforms electrification initiatives after receiving training in basic accounting in local languages provided by NGOs financed through the project. To date, multifunctional platforms with mini-grid have been installed in 64 communities.

A multifunctional platform is composed of a small 10 kW diesel/biodiesel engine coupled to a generator. The platform can be connected to income generating equipment, such as cereal grinding mills, battery charger, and water pumps, or generate electricity that can be distributed through a grid to households.



Grid connected to multifunctional platform



Gender in The ongoing Household Energy and Universal Rural Access (HEURA) project

- Activities carried out of the HEURA having for actors or recipients women (suite)

Financing of sub-projects with spontaneous candidature (PCASED) of (i) a forestation, (ii) diffusion of improved equipment of cooking promoted by women Associations/NGO ;

Capacity building of the actors of wood and charcoal where women are very active (approximately 60% of the members of the rural structures of wood/charcoal management are women);

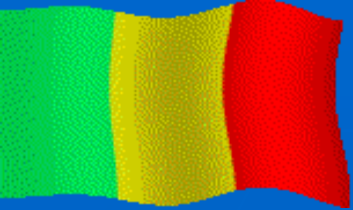
Implication of the women in the various investigations and surveys into domestic energy;



Seedbed of seedlings of jatropha arranged by a grouping of women members of the CAFO



Training of the Professionals of the wood Energy



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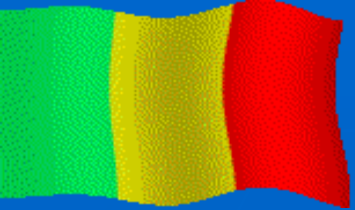
Active implication of women in the implementation of Information, Education and Communication actions of the ground level and national level;

Technical and financial support to women for organization of the meetings of sensitizing on household Energy (sale exposure of products, culinary demonstration, conferences debates)

Reinforcement of the capacity of the operators for the production and the diffusion of label cooking equipment.



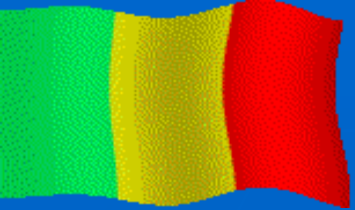
Culinary demonstration, exposure sale and sensitizing



Gender in The ongoing Household Energy and Universal Rural Access (HEURA) project

Gender integration in HEURA is a success in many points :

- Acceptation of the population, in particular, women with the stakes related to the intensive use of the improved equipment of cooking (from 2005 to 2011, approximately 900.000 improved cook stoves distributed)
- Acceptance of women by men as manager of the rural structures of wood energy management on the level of the Rural wood Markets;
- Emergence of women as private operators in rural electrification field (03 femmes/50) since 2009;
- The use of the PTF like means of pre-electrification and their transition towards a complete electrification while keeping the basic module managed by the women.



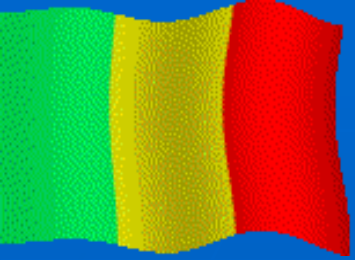
Mali – Gender & Energy Activities under AFREA AFREA Overview



The AFREA program is managed by World Bank (AFTEG) and funded through a contribution from the Kingdom of the Netherlands to the ESMAP Clean Energy Investment Framework (CEIF) Multi Donor Trust Fund (MDTF) recipient executed and technical assistance window.

The AFREA TF is designed to complement and support ongoing World Bank renewable energy sector operations in Sub-Saharan Africa, focusing on activities that:

- (i) directly support and/or create enabling conditions for increased renewable energy investments,
- (ii) and expanding access to electricity related to renewable energy and
- (iii) help strengthening and mainstreaming the application of gender sensitivity guidelines and tools in rural energy services.



Mali – Gender & Energy Activities under AFREA



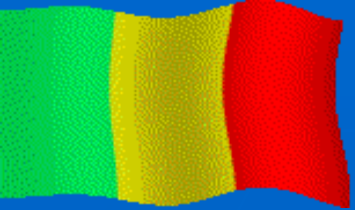
Focus on Gender & Energy in AFREA

The **Africa Renewable Energy Access Program (AFREA)** has a focus on **gender and energy** which aims to integrate gender into ongoing energy projects within the region by building a SWAT team/network of experts who can provide just in time assistance.

The key output of the AFREA Gender and Energy program will be development of a gender approach methodology for energy projects in the Africa region, and to build a network of experts at the local, regional and global level.

These experts will work with the task teams to develop action plans that are operational and relevant, and will document the approach and the results, and share those with the community of practice and with governments.

These outputs and deliverables aim to contribute towards the greater outcome of *increasing energy access while understanding and addressing the needs of the poor, through capacity building, dialogue and engagement with women and men in the region.*



Mali – Gender & Energy Activities under AFREA



The AFREA Gender and Energy program will provide tailored implementation support to strengthen and mainstream energy and gender sensitive aspects in AMADER activities and will include:

1- Gender impact assessment in AMADER that will:

- (i) review the extent of using a gender sensitive approach,
- (ii) establish the baseline for gender mainstreaming into the project and
- (iii) integrate indicators for gender sensitive monitoring and evaluation into the Projects results framework;

2- Gender mainstreaming for all project components by providing energy and gender capacity building/training for AMADER and ESCOs;

Mali – Gender & Energy Activities under AFREA

What has done so far ?

- **Scoping & Identification** took place to develop gender component
- **Gender Assessment** to be carried out within selected villages and AMADER's projects to:
 - Develop a gender and energy program for AMADER that is based on the needs of the people in line with the private operators and the energy sector stakeholders; and
 - Based on the findings and recommendation of the assessment, **prepare a time bound gender and energy action plan.**
- **Gender Action Plan is ongoing**

Mali – Gender & Energy

Gender Activities under AFREA

Mali- Gender Action Plan includes :

- Capacity Building and Training of Relevant Organizations
- Community Level Training
- Identification on New Technologies, Best Practices and Sustainable Focal Points
- Solutions to the Removal of Barriers
- Strengthening the Gender Desk within AMADER
- Mainstream Gender into Monitoring and Evaluation in AMADER's projects



**Thank you for
your attention**