

Capacity Building and Exchange Workshop, Dakar, Senegal | April 7-9<sup>th</sup> 2014,  
Africa Renewable Energy & Access, Gender and Energy Program

“Women build future at local level”



# MALI Dashboard

## SNV Mali, Pierre Gravel, RE coordinator

Issue	Fact
Population 15 M	<ul style="list-style-type: none"><li>• <b>Affected by food, nutrition and security crises</b> since 2011, have eroded livelihoods...</li></ul>
Geography	<ul style="list-style-type: none"><li>• <b>Lost of rain and 100 000 ha of forest lost / year</b></li></ul>
Energy Scenario	<ul style="list-style-type: none"><li>• Energy mix : <b>wood = 74,4%</b>; fuel imported = 21,5%, electricity = 3,1%; <b>ER: 1,7%</b></li></ul>
Key Development Challenges	<ul style="list-style-type: none"><li>• Change of <b>short-term motivation</b> of economic and political leaders</li><li>• <b>Sustainable access of biomass energy</b></li><li>• Access to <b>sun appropriate technologies</b></li></ul>
Social and Gender Issues	<ul style="list-style-type: none"><li>• Sustainability of local energy and food security could be a common challenge (women –men) <b>initiated at local level by women</b></li></ul>



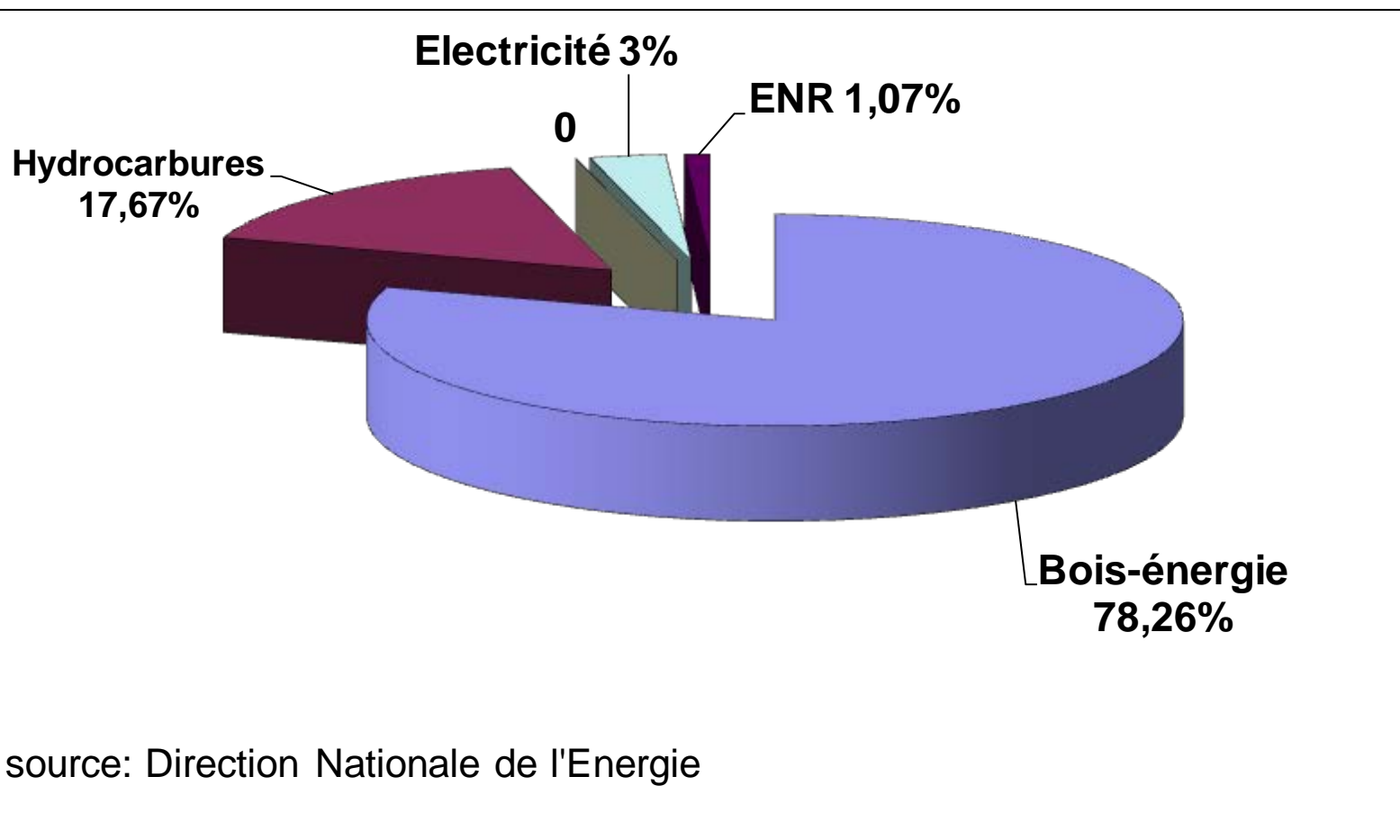
**The 3 stone fireplace, a false friend of rural women**





Reflection on the means of production...

# Energy balance of Mali



## MALI Program Update

Action	Status
<b>SNV' Gender and Energy Assessment</b>	<ul style="list-style-type: none"> <li>• <b>Gender/Energy audit</b> of food production where women are present in large numbers: rice, shea nut, vegetable...</li> <li>• <b>Women working in food processing are exploited in terms of time invested, hardship, loss of: health and energy' bases</b></li> </ul>
Gender Action Plan	<ul style="list-style-type: none"> <li>• <b>Increasing productivity, decreasing wood, hardship, energy basis by efficient local equipment and local energies</b></li> <li>• 12 women's cooperatives who women are:               <ul style="list-style-type: none"> <li>➤ Trainers to build improved cooking stove;</li> <li>➤ Builders of mud stoves (commercial release):</li> <li>➤ Role of contractor, commercial;</li> <li>➤ Users of stove at home ;</li> <li>➤ Users of productive stove and solar technology at cooperative</li> </ul> </li> </ul>
Monitoring and Evaluation	<b>Key gender-relevant indicators tracked: saving money (productivity) , time, hardship on production and social gains...</b>
Completion and Reporting	<b>Impacts on 7000 women / food security, better health, time free, ha of wood saved, reduction in greenhouse gas emissions</b>



**Groups of rural women easily mobilized to build productive mud stoves**



# What worked well/ Not so well

## Worked (or is working) well

- Receptivity of women to participate in gender energy audits
- The massive use of productive earthen stove LORENA works well with a private operator approach in rural and urban areas (income and employment...)
- The massive use of productive earthen stove LUGA works well with a cooperative approach in rural areas

## Not working so well

- Offer after-sales service and customer development of stove builders
- Briquetting biomass... but find free energy: rice husk, shea nut residues... ready to use





**Young operators providers of productive stoves in urban and rural environment**

## Energy availability, access and underutilized



Rice husk and appropriate stove



Shea nut residues

### 3 Lessons Learned

- R & D requires more time than expected to develop appropriate equipment to a local context but... it is necessary
- Women who cut all the wood around their food production unit, mortgage their economic and social position and education of their girls
- Women who used non-food biomass as energy and energy efficient equipment improved their productivity and their economic and social position
- The earthen (banco) stoves are an appropriate means for the 30 to 50% reduction in consumption of wood, essential to maintaining ecological basis and food security





**Women explaining advantages of mud (earthen) productive stove**



**Appropriate technologies for drying, pre-baking and food preservation**



*“With my solar dryer, I even forgot the price of butane gas” says this woman*

## What Guidance Do You Need?

- Strategies to ensure that women have ownership of the land where they set up their new production equipment...
- Studies that demonstrate cost savings (incomes?) made by women to serve their social advancement
- Sharing other cases of success where women lead sustainability of local energy
- Sharing success cases where women invested on solidarity between species, as investing in honey production, exploitation of wild fruits' trees... that contributing at sustainability of ecological basis and food security



## Sustainability of the ecological base of the Sahel (Sibi)



Wood is the basic energy of Sahelian women and will remain for decades...





**Comments? questions?**