République du Sénégal

Un peuple- Un But- Une Foi





Ministère de l'Energie et du Développement des Energies Renouvelables

Direction des Hydrocarbures

SENEGAL DOMESTIC BIOGAS NAMA « BIOGAS AS WOOD ALTERNATIVE SOLUTION AND AGAINST SOIL DEGRADATION IN SAHELIAN AREA »

DOMESTIC NATIONAL BIOGAS SENEGAL (PNB-SN)

By: Mor NDIAYE Communication & Marketing Officer

Date:: December, 6th

Lieu: Casablanca

Why NAMA PROPOSAL?

•OPPORTUNITY FROM UNEP RISOE WITH SUPPORT MINISTRY OF ENVIRONNEMENT

Two projects choosen:

Domestic NAMA BIOGAS

and Minigrid PHOTOVOLTAIC

Projects rejected: Mini-Grip Wind Power Plants

REASON OF CHOICE: HIGH SOCIO-ECONOMIC IMPACT PILOT PHASE EVALUATION

Choice of Carbon Finance: Self financing and durability •FUNDING NEEDED TO REINFORCE PNB-SN ACTIONS

• IN PRIVATE SECTOR DEVELOPMENT,

OSUPPORT FOR FARMERS

✓ IN ORGANIC AGRICULTURE AND

✓ INTEGRATION OF AGRICULTURE AND LIVESTOCK BREEDING

STATUS OF THE PROJECT DESIGN

•NAMA DESIGN DOCUMENT REDACTION COMPLETED

•AJUSTEMENTS TO BE DONE BY REDACTION TEAM BEFORE SENDING TO START APPROVAL PROCESS (MINOR REMARKS FROM PROGRAM OFFICER OF UNEP RISOE TO BE INTEGRATED): TWO LEVELS: NATIONAL LEVEL AND INTERNATIONAL

TWO LEVELS: NATIONAL LEVEL AND INTERNATIONAL LEVEL (UNEP RISOE)

• **REDACTION TEAM:** MATAR SYLLA (team leader), LAMINE DIOP, EIH MBAYE DIAGNE

MONITORING REQUIREMENTS AND ORGANISATION

MOST INDICATORS UNDER CONTROL:

- •Biogas production
- •Green house gas reduction
- •Wood consumption reduction (monitoring by survey)
- •Number of household with biogas devices
- •Increment of crops production (Research Program with ISRA/CIRAD)
- •Credit and investments
- •Job creation
- Household satisfaction
- •Increment of houshold revenues
- •Companies Net sales of BCEs and Devices Fabricants

MONITORING REQUIREMENTS AND ORGANISATION

METHODS OF DATA COLLECTION: SURVEY (annual), DATA ROUTING

DATA MANAGEMENT: INFORMATION SYSTEM

ORGANIZATION Level 01: BCE to build digesters for famers Level 02: Implementing partners (IP's) for each region to follow up actions under process (BCE's, farmers, local partners) Level 03: PNB-SN regional antennas with biogas and extension technicians to follow BCE's, IP's, farmers activities Level 04: PC office for National Coordination with all actors

SOURCES AND QUANTITIES OF EMISSIONS REDUCTIONS

Emissions calculus Methodology:

"Indicative Programme, Baseline, and Monitoring Methodology for Small Scale Biodigester 3001007"

Emissions Factors:

Tier 1 (IPCC 2006),

Sources of emissions considered:

- -Emissions due to livestock manure management
- -Wood Combustion
- emissions due to biodigester use

•Sources of emissions not considered:

- -Agriculture emissions
- -Enteric fermentation

SOURCES AND QUANTITIES OF EMISSIONS REDUCTIONS

Période: 2015-2030

Target: 60 664 biodigesters for rural households Target Maximum emissions reduction (at 2030) : 293 392 Teq CO2/year Total emissions reduction calculated: 1 975 264 Teq CO2



MOST DIFFICULT CHALLENGES UP TO NOW

- SOCIO-ECONOMICAL DATAS COLLECTION (household level):
 - Agriculture (production, period, region, type)
 Livestocks breeding (heads, type,
 - transhumance period)
 - ✓ Water avaibility;

✓ Financial capacity (analysis finally based on spending)

•ADOPTION STRATEGY BY ALL ACTORS: to fix What to do? By Whom? And When?

THANK YOU FOR YOUR ATTENTION

