

MINISTERE DE L'ENERGIE ET DE L'EAU

DIRECTION NATIONALE DE L'ÉNERGIE

REPUBLIQUE DU MALI
Un Peuple Un But Une Foi

PROGRAM FOR SCALING UP RENEWABLE ENERGY IN MALI
(SREP-MALI)

TERMS OF REFERENCE FOR THE JOINT MISSION



Proposed dates: 5 to 15 April 2011



EXECUTIVE SUMMARY

Objectives of the Mission

The main objective of the first SREP-Mali Joint Mission is to support the Government of Mali in designing the SREP investment plan. In consultation with the national stakeholders, the joint mission will more specifically (i) validate the suggested investment priorities, (ii) review all the necessary elements to ensure the timely finalization of the investment plan and (iii) assist in developing the concept notes of the projects that will enable the implementation of the investment plan under Phase 2.

Dates of the Mission

The proposed dates for the joint mission are from 5 to 15 April 2011 under the leadership of the Government of Mali.

Government Contacts

The mission leadership will be ensured by the SREP National Focal Point, Mr. Sinalou DIAWARA, Director of the National Directorate of Energy in Mali.

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Activities undertaken before the Joint Mission

Since October 2010, various activities were conducted by the national team with support from the Multilateral Development Banks (MDBs): (i) a mission from the Ministry of Energy and Water visited Washington from November 6 to 12, 2010 to attend the first SREP pilot country meeting; (ii) following the mission in Washington, a National Commission for SREP Preparation has been created and endorsed by the Minister of Energy and Water - the National Commission aims to decide on and supervise all activities conducted under Phase 1 of the SREP-Mali; (iii) under the joint supervision of the National Commission and MDBs, a stocktaking exercise was carried out to provide a basis for defining investment priorities; (iv) a joint MDB scoping mission was conducted from 1 to 3 February, 2011 to discuss the initial results of the stocktaking and prepare for the joint mission. A preparation grant request for Phase 1 activities has been submitted to the MDB Committee.

Activities to be undertaken during the Joint Mission

During the joint mission, the main activities will consist in (i) interacting with national stakeholders (workshops and multiple meetings with stakeholders) to discuss the investment priorities proposed by the SREP National Commission, (ii) assisting the SREP National Commission in finalizing and validating these investment priorities, and (iii) supporting the write up of the investment plan. Mission activities will also (iv) support the design of the various program/projects' concept notes that will lead to the implementation of the SREP investment plan under Phase 2, and (v) launch the work related to the IP environmental and social issues, as well as the development of the M&E framework of the program.

Expected results and outcomes

The main deliverables for this joint mission are: (i) the investment priorities are discussed and agreed on with national stakeholders, (ii) the investment plan is developed from information gathered during the workshop and meetings, (iii) draft program/projects' concept notes for the implementation of the investment plan are completed ; (iv) –the M&E results framework is started based on the validated investment priorities, as well as the environmental and social work.

The documents expected by the end of this mission are: (i) an Aide Memoire describing the process, key findings and recommendations of the joint mission, (ii) a draft investment plan - which will include the results of the stocktaking exercise, the results of the public consultations, the proposed investment priorities, knowledge management and capacity building activities for Phase 2 implementation, a tentative schedule for implementation and the definition of the roles and responsibilities of the various stakeholders for the implementation of the investment plan, (iii) draft programs/projects' concept notes for Phase 2 implementation. The proposed roadmap (cf. paragraph 14) indicates that the investment plan should be finalized by the end of April to be made available for public consultations early May.

It is understood that the investment plan should meet as many criteria as possible from the ones listed in the annex 1.

CONTEXT OF THE MISSION

1. Climate Investment Funds (CIF), managed by the multilateral development banks (MDBs), are aimed to promote international cooperation on climate change and support the efforts of developing countries to mitigate the increase in greenhouse gas emissions and adapt to climate change. Two funds were created under the CIF: (i) the Clean Technology Fund (CTF) that supports projects and programs that contribute to the demonstration, deployment and transfer of low carbon technologies, (ii) the Strategic Climate Fund (SCF), that supports three programs with potential for scaled-up, transformational action aimed at a specific climate change challenge or sectoral response. The three programs are: the Pilot Program for Climate Resilience (PPCR), the Forest Investment Program (FIP) and the Program for Scaling Up Renewable Energy in Low Income Countries (SREP).
2. The SREP is aimed at demonstrating the social, economic, and environmental viability of low carbon development pathways in the energy sector. It seeks to create new economic opportunities and increase energy access through the production and use of renewable energy. The SREP program will enable Mali to initiate the process to achieve a transformational change, one that will lead the country towards a low GES emission development. This will be made possible by harnessing the renewable energy potential of the country instead of developing the economy based on expensive and polluting fossil fuels, and on inefficient use of biomass.
3. The private sector, as the basis for economic growth, has an important role to play in promoting renewable energy development. By opting for an investment plan that combines public sector and private sector interventions, the SREP will work to remove economic barriers (among others) and increase private investments in support of achieving the objectives of the SREP. Improved market and financial conditions, as well as strengthening of investors' confidence, could facilitate this transformation by stimulating public and private investments in renewable energy projects.
4. The SREP program will support both investments for capacity building to reform the institutional framework, and investments for infrastructure to deploy renewable energy equipment in the country. So, ultimately, the investment plan will:
 - Create an enabling environment by implementing public policies and improve the legal and regulatory framework;

- Encourage growth in the share of renewable energy investment in total energy investment;
 - Have a transformational impact on energy markets and increase access to energy by maximizing the social benefits and positive impacts on the fight against poverty;
 - Improve the economic viability of renewable energy in the long term.
5. Mali was selected by the SREP experts group set up by the SREP sub-committee to be a pilot country under the SREP, because of (i) the critical issues facing the country (climate change impacts and land degradation, high population growth and therefore energy demand steadily increasing, rising prices of fossil fuels which increases the level of poverty of the people, etc.) and (ii) the efforts already made by the Government to create an adequate legislative and institutional framework, develop renewable energy projects, generating investments interest in the private sector, etc. The Government of Mali confirmed its interest in participating in the program and sent a letter to that effect to the SREP sub-committee with the completed questionnaire in August 2010.
 6. Since then, the MDBs have supported the Government in carrying out the preparatory activities that aimed to facilitate this joint mission and develop the investment plan. A stocktaking exercise was carried out, the main conclusions are available in the next section. A joint MDB scoping mission took place from 1 to 3 February 2011 in Bamako (see next section for details).

PREPARATORY ACTIVITIES

7. Since Mali was selected as a pilot country for the SREP program, the Government, supported by the MDBs, has undertaken a number of preparatory activities, including: (i) a mission in Washington during the CIF Partnership Forum in November 2010, (ii) the creation of a National Commission for Preparation of SREP, (iii) a stocktaking exercise, (iv) a scoping mission including a technical workshop and consultations with national stakeholders.
8. In November 2010, five members of the Malian Government attended the CIF Partnership Forum in Washington. During one week, the members of the mission, supported by the African Development Bank and World Bank, participated in many meetings to get a better understanding and increase their ownership of the SREP program. As part of the mission, a roadmap was agreed upon to ensure the implementation of the following activities, all conducted between December 2010 and February 2011:
 - Inform the Minister in charge and his cabinet;
 - Create a National Commission for SREP Preparation;
 - Finalize the Terms of Reference for the Scoping Preparatory mission;
 - Launch and supervise the stocktaking exercise;
 - Prepare the grant request for funding the activities under Phase 1.
9. In January 2011, a stocktaking exercise was started with the objective of achieving an initial inventory of the status and development of renewable energies (RE) in Mali. This work was to serve as a basis of discussion with all stakeholders to identify activities to be implemented under Phase 1 of the program (after having identified the available information on one side and that which was lacking and needed further analysis none the other side). This work was also intended to start identifying investment priorities. The executive summary of the study will be available in English in

the coming weeks. The discussions related to the results of the stocktaking exercise highlighted the below (not exhaustive):

- There is a lot of information already available regarding RE in Mali;
 - There is a good understanding of the potential for different RE technologies in Mali, even though detailed feasibility studies might be needed to design the projects;
 - There is a lot of background in terms of RE related projects/programs and equipment, both under implementation and under preparation;
 - There is strong political willingness from the Government to increase the share of RE in the energy production and use in the country;
 - There is an interest of various stakeholders to invest/work in the RE sector;
 - The main pieces of the institutional framework for a good enabling environment are in place or under development (but they will need to be strengthened) – for instance a National Strategy for the development of RE was adopted in 2006, on which the SREP investment plan will build, as well as a National Strategy for Biofuels and related National Agencies;
 - More specifically, the enabling environment for the private sector to invest in RE is still weak and needs to be reinforced (ongoing work with IFC).
10. From February 1 to 3, 2011, the Government has led a scoping mission. The objectives of the mission were to (i) discuss the objectives of the SREP program, its benefits and the modalities of its implementation in Mali in order to ensure a common understanding and vision of the SREP in Mali by all stakeholders, (ii) solicit the views of national stakeholders on the types of activities that this program should incorporate in Mali, (iii) if necessary, finalize the stocktaking of existing analytical studies, projects and programs in the areas of renewable energy, climate change, energy in general and any documentation that may guide the development of the investment plan, (iv) validate through a multi-stakeholder workshop the initial results from the stocktaking exercise, (v) identify and agree with the government and the MDBs on the dates of the joint mission, its composition, the role of each institution's budget, next steps, and focusing on what type of skills are needed for the mission, (vi) contribute to the finalization of the preparatory grant request to send to the MDB Committee for the activities of Phase 1.
11. The mission visited his Excellency Mr. Mamadou Igor DIARRA, Minister of Energy and Water, who stressed the importance of strengthening the achievements observed in the energy sector and of building on synergies between the various stakeholders in the sector (technical and financial partners, the private sector, national institutions) through the SREP program. The Minister also emphasized the necessity to make the best investment choices possible as part of the SREP investment plan, in order to enhance the usefulness of the funds available. He mentioned his willingness of having the SREP program developed rapidly so that benefits for the people and the country's economy can be felt quickly.
12. Meetings were held with various stakeholders to initiate a process of dialogue with the Government and plan for Phase 1 SREP activities with the national authorities. A technical workshop was organized as one of the key activities of the scoping mission. As part of the scoping mission, a team composed of AfDB and IFC staff met with the Agency for Investment Promotion (API) to discuss the role and experiences of the private sector in the preparation and implementation of renewable energy projects. IFC is currently developing a project with the API to encourage private sector investments in the renewable energy sector; synergies are being identified with the SREP program (see paragraph 23).

13. The results of the mission were presented to the Technical Adviser of the Minister of Water and Energy, Mr. CISSE, during a restitution meeting on February 4, 2011. It was noted that:
- The mission was a success and went smoothly;
 - The stocktaking exercise will be continued and completed by late February; it is important that it could be refined because it will provide the basis for the development of the investment plan;
 - Discussions that occurred during the mission will facilitate the finalization of the Terms of Reference of the Joint Mission by the end of the month;
 - The Government of Mali will submit a preparatory grant request for Phase 1 activities; the funds will be channeled through the African Development Bank.
14. Since there is already a National Strategy for Renewable Energies in Mali, and considering the results of the stocktaking exercise, the Government wants to build on this existing strategy to design the SREP investment plan. Therefore, the Government intends to formally submit its SREP investment plan to the SC-SREP in May 2011 for its approval at the sub-committee meeting in June 2011. The Joint Mission is part the following roadmap to ensure timely submission of the investment plan :
- By March 16: Submission of the Preparatory Grant Request
 - By March 29: First draft of the investment plan
 - From 5 to 15 April: Joint Mission
 - By May 5: Finalization of the Investment Plan
 - May 5: Public consultations (DNE website)
 - By May 23: Finalization on the basis of comments received from the public consultations
 - May 23: Submission to the CIF Administrative Unit
15. Following the Scoping Mission, the Government and the MDBs continued working in close consultation, especially to finalize the Aide Memoire and the TORs for the Joint Mission. They also participated jointly in the review of the final version of the stocktaking report. In consultation with the Government and according to the MDBs procurement procedures, the MDBs hired experts-consultants to start working on key activities.
16. After the Scoping Mission, it was agreed that the Government would submit a grant request for Phase 1 activities. The grant is intended to support the write up of the Investment plan, the consultation process, the work done by the National Commission for SREP Preparation, translation expenses, etc. Some activities might be pre-financed by the Government and will be reimbursed once the grant funds are available. The grant request has been submitted to the MDB Committee.

JOINT MISSION ACTIVITIES

17. On the basis of the preparatory activities carried out during the past few months, the Government and the MDBs have agreed on having a Joint Mission that could support the SREP National Commission in elaborating the Investment Plan. Therefore, even though the proposed roadmap might suffer some delays (submission later than May/June 2011), everything will be done to ensure that this Joint Mission provides sufficient inputs to elaborate a quality Investment Plan.

Share of responsibilities

18. The joint mission will be led by the SREP National Focal Point with support from the members of the SREP National Commission. The Government has decided to share the tasks among the members of the commission (as in the table below) to make sure that responsibilities are well understood and that the expected results will be achieved. In addition, the SREP National Commission has been tasked to prepare draft program/projects' concepts in order to facilitate the discussions during the joint mission. The members of the commission will be supported by the other national institutions during the mission.

| | |
|--|---|
| Team 1: Preparation of the Joint Mission | DNE/CNESOLER/ANADEB /AMADER |
| Team 2: Mobilization of the Private Sector | AMADER/ANADEB/CNESOLER |
| Team 3: Reporting for the workshop | CNESOLER/AEDD |
| Team 4: Write Up of the Mission Aide Memoire | DNE/CNESOLER/AEDD |
| Team 5: Write up of the Investment Plan | DNE/CNESOLER/AMADER/ANADEB/AEDD/D NEF/DNACP |
| Team 6: Supervision of the social and environmental work | DNE/DNEF/DNACPN/AEDD |
| Team 7: Supervision of the M&E framework | DNE |

19. The three MDBs will participate in the joint mission. The AfDB is responsible overall for the mission, with support from the WB and IFC. Following discussions between the Banks, it was agreed that the responsibilities would be shared as mentioned in Annex 5. The needs (country readiness) and availabilities of experts will be reassessed two weeks before the mission to ensure adequate technical assistance.

Consultations with the stakeholders

20. During the joint mission, consultations with key stakeholders will be held in Bamako, including national institutions/authorities, development partners, NGOs, local communities and the private sector. Consultation workshops as well as a series of meetings will be organized as part of the mission to identify concrete opportunities for investment that could lead to large-scale development of renewable energies. Field visits might be organized but this will be further defined in the coming weeks.
21. Consultations with stakeholders, already initiated during the scoping mission, should help strengthen national ownership, mobilize co-financing for SREP investments, harmonize support to public policies and promote complementarity with ongoing or planned activities. Additional financial resources mobilized to complete SREP funding will be included in the investment plan.
22. Bilateral and multilateral partners will be involved in the mission to provide inputs, contribute to the discussions on the investments priorities, assess the opportunities for potential co-financing on their side, etc. Development partners that have expressed specific interest in contribution to the mission (UNDP and UNEP for instance) will be closely associated and included in the activities of the MDB experts.

23. The Government has a good understanding of the need to get the private sector involved in the program. The National Focal Point has planned to organize specific meetings for the private sector, before the joint mission, to explain the SREP program and ensure full engagement of the private sector companies. In addition, IFC has ongoing technical assistance projects in Mali that will support the mobilization of the private sector in the renewable energy sector and inform the SREP in Mali on effective engagement and participation of the private sector. Collaboration with these and other existing private sector activities will continue throughout the process of development and implementation of the investment plan.
24. The mission will consult the following actors, either through meetings (group or bilateral), or as part of the planned technical workshop¹:

National Institutions:

- Ministère de l'Energie et de l'Eau
- Ministère de l'Environnement et de l'Assainissement
- Ministère de l'Economie et des Finances
- Ministère de l'Industrie, des Investissements et du Commerce
- Ministère de l'Administration Territoriale et des Collectivités Locales
- Ministère de l'enseignement Supérieur et de la Recherche Scientifique
- Direction Nationale de l'Energie
- Direction Nationale de l'Hydraulique
- Direction Nationale de l'Agriculture
- Direction Nationale des Eaux et Forêts
- Agence de l'Environnement du Développement Durable
- Direction Nationale des Industries
- Direction Nationale des Eaux et Forêts
- Direction Nationale de l'Assainissement du Contrôle des Pollutions et des Nuisances
- Direction Nationale des Collectivités Locales
- Agence Malienne de l'Energie Domestique et de l'Electrification Rurale (AMADER)
- Agence Nationale de Développement des Biocarburants (ANADEB)
- Le Centre National de l'Energie Solaire et des Energies Renouvelables
- Commission de l'Eau, de l'Energie, des Industries, des Mines, de l'Artisanat, du Tourisme et des Technologies de l'Assemblée Nationale
- Commission Développement Rurale de l'Assemblée Nationale
- Commission Nationale des Energies Renouvelables (CNER)
- Agence Nationale pour la Promotion des Investissements (API)
- Agence Nationale pour les Investissements des Collectivités Territoriales (ANICT)
- Grandes écoles et instituts de recherche
- Association des Municipalités du Mali
- Haut Conseil des collectivités Territoriales

¹ The Terms of Reference of the workshop will be developed by the National Commission for SREP Preparation at least 15 days before the beginning of the joint mission.

Private Sector Organisations:

- Energie du Mali (EDM SA)
- Association des Professionnels du Solaire (APS)
- Association des Femmes Ingénieurs du Mali (AFIMA)
- Association de Développement des Mines et du Solaire (ADMIS)
- Chambre de Commerce et d'industrie du Mali
- Chambre des Arts et Métiers du Mali (APECAM)
- Banques Commerciales Nationales et Internationales
- Investisseurs privés internationaux
- Auto-producteurs d'Énergie
- Etc.

Civil Society Organisations:

- Association Malienne pour la Protection de l'Environnement
- Association Malienne pour la Protection de l'Environnement (AMPERE)
- Helvetas Mali
- Inter coopération
- AMEDD
- CCA/ONG
- SECO/ONG
- MaliFolkCenter
- Etc.

Development Partners (other than MDBs)²:

- UNDP and UNEP
- FAO
- European Commission
- BOAD
- USAID
- French Cooperation
- German Cooperation
- Danish Cooperation
- Swedish Cooperation
- Norwegian Cooperation
- Belgian Cooperation
- Canadian Cooperation
- Cooperation from Netherlands
- Swiss Cooperation
- Chinese Cooperation
- Indian Cooperation
- Japanese Cooperation
- Etc.

² The following development partners have been involved in energy projects in Mali, or are involved or intend to be. Specific focus will be done while the detailed TORs are prepared for the workshop and stakeholders meetings. Moreover, it should be mentioned that AfDB is lead development partner in Mali for the "Energy thematic group" gathering development partners and the Government. Therefore, political and technical dialogue with development partners is ongoing.

Regional technical representatives :

- CILSS
- Liptako Gourma
- UE MOA et CEDEAO

Validation of the investment priorities and identification of the implementing projects

25. One of the major objectives of the joint mission is to collectively discuss and agree on strategic investment priorities for the scaling-up of renewable energies in Mali. This work will be done through:
- Before the joint mission, drafting of the investment priorities by the National Commission for SREP Preparation on the basis of the preparatory work (stocktaking exercise, scoping mission that included a workshop with key stakeholders, etc.); this will be done by a national consultant under the supervision of the National Commission.
 - As part of the joint mission, and during a technical workshop, presentation of the proposed investment priorities by the National Commission and discussion with national stakeholders.
 - During the joint mission, series of meetings to discuss with the stakeholders the proposed investment priorities and pre-identify the projects implementing the investment plan.
 - Under the current roadmap, finalization of the investment plan should be done in the weeks following the joint mission; the document should be circulated for public consultations on the DNE website to ensure that the investment plan submitted reflects stakeholders' priorities and concerns. During the Joint Mission, it will become clear whether or not Mali can submit its investment plan in May/June 2011.

Support to the Mali Government in writing up the Investment plan

26. MDBs will support the Government of Mali in drafting the draft investment plan. To do so, a small group composed of MDBs staff and members of the National Commission (with support from a national consultant) will work together to review the drafted document, in parallel with other mission activities. The drafting of the document will be continued during the following weeks, by the same group with assistance from additional MDB specialists or consultants as needed.
27. In accordance with the SREP "programming guidelines", the investment plan will consist of the sections mentioned in annex 2. The investment plan should entail program/projects' concept notes for projects to be implemented under Phase 2.

COMPOSITION OF THE MISSION

28. The mission will consist of many experts from the three MDBs, plus a few consultants supporting the Phase 1 activities. The areas of expertise will be as such :

- Energy Specialist
- Renewable Energy Specialist
- Energy-economist
- CIF/SREP Coordinator
- Climate Change Specialist
- Private Sector Expert
- Country Economist
- Infrastructure Expert
- Rural Development Specialist
- Social Development / Gender Specialist
- Environment-Safeguards Specialist
- M&E Expert
- Procurement and Financial Specialists

The detailed roles of the mission participants, including the Government, are available in Annex 3.

29. In addition to MDBs experts and Government staff, the mission will be based on the broad participation of national stakeholders. The UN System will be closely associated to the mission. This broad participation is designed to ensure ownership of the program and support its implementation by the Government, national stakeholders and development partners.

MISSION CALENDAR

30. A calendar is proposed in table 2 below for the mission activities. This calendar will be further refined in the coming weeks and specific TORs will be developed for the workshop, working groups, various meetings.
31. While the MDB teams and SREP National Commission work according to the proposed agenda in the table blow, it is expected that the consultants in charge of the social and environmental analysis on one side and of the M&E framework one the other side will start gathering information before the mission, and work on the expected outputs during and after the mission. They will follow the workshop to extract relevant inputs for their work and will continue developing their documents during and after the mission under the supervision of the MDBs and the SREP National Commission.

Table 2. Calendar of the Joint Mission – April 2011

| | April 4 | April 5 | April 6 | April 7 | April 8 | Weekend | Weekend |
|---------------------|--|--|---|--|--|--|--|
| AM | Holiday | Arrival of the mission experts | Workshop : Plenary <ul style="list-style-type: none"> •Opening •Presentation of the SREP •Presentation of the Stocktaking Findings •Presentation of the proposed strategic priorities •Discussions | Workshop: Breaking out sessions 9am to 1pm | Workshop: Reading of the Workshop Report and final discussions on investment priorities and ideas of projects 9am to 12pm | 10am-12pm : Meeting to start environmental and social work on the basis of the draft investment plan and results of the first week | 10am-12pm : Meeting to start the M&E on the basis of the draft investment plan and results of the first week |
| PM | Holiday | 2pm : MDBs Meeting and consultants 3:30pm : Meeting MDBs/National Com. 5pm : Meeting with the Minister | Workshop: Breaking out sessions 2pm to 5pm | Workshop: Restitution of the working groups 2pm to 6pm | 3pm to 5pm: Meeting MDBs/National Com. to discuss workshop achievements and prepare for the series of meetings | | |
| 19 h00 | <i>Meeting of the Mission Core Team</i> | <i>Meeting of the Mission Core Team</i> | <i>Meeting of the Mission Core Team/ Write Up</i> | <i>Meeting of the Mission Core Team /Write Up</i> | <i>Meeting of the Mission Core Team /Write Up</i> | | |
| | April 11 | April 12 | April 13 | April 14 | April 15 | | |
| AM 8:30 to 12:30 | Consultations with key stakeholders: <ul style="list-style-type: none"> • National and local authorities (MEE) - 9am to 12pm • Development Partners (AfDB) - 9am to 12pm | Group 1: Drafting of the mission Aide Memoire Group 2: Assistance to write Up of the SREP investment plan Group 3: One on one meetings with private sector (IFC) | 9am to 12pm: Meeting MDBs/National Com. to discuss draft program/projects' concepts | Group 1: Finalization of the mission Aide Memoire Group 2: Review of the draft SREP investment plan including the draft program/projects' concept notes | 9am to 12pm: Meeting MDBs/National Com. To discuss the roadmap until the submission of a quality investment plan | | |
| PM 2pm to 6pm | Consultations with key stakeholders: <ul style="list-style-type: none"> • Civil Society (MEE) - 2pm to 5pm • Private Sector (IFC) – 2pm to 5pm | Group 1: Drafting of the mission Aide Memoire Group 2: Assistance to write Up of the SREP investment plan Group 3: One on one meetings with private sector (IFC) | Group 1: Finalization of the mission Aide Memoire Group 2: Assistance to write Up of the SREP investment plan | Meetings with the consultants in charge of the M&E, social and environmental work | Restitution of the Aide Mémoire to the Minister of Energy | | |
| 19 h00 | <i>Meeting of the Mission Core Team</i> | <i>Meeting of the Mission Core Team</i> | <i>Meeting of the Mission Core Team</i> | <i>Meeting of the Mission Core Team</i> | | | |

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MDBs Budget for Phase 1 Activities (FY11 and FY12)

| Joint Mission Number / Team Member | | No. of staff weeks [no. weeks] | Staff week cost [\$US] | Travel cost (airfare, hotel, transport & per diem) [\$US] | Other cost [\$US] | Total [\$US] |
|---------------------------------------|---------|--------------------------------|------------------------|---|-------------------|----------------|
| MDB's Joint Budget | | | | | | |
| African Development Bank | | | | | | |
| Mission Leader/TM Energy Specialist | Pre-JM | 2 | 3500 | 4000 | | 11000 |
| | JM | 2 | 3500 | 6000 | | 13000 |
| | Post-JM | 3 | 3500 | 4000 | | 14500 |
| Chief Private Sector Specialist | Pre-JM | 1 | 4000 | 4000 | | 8000 |
| | JM | 2 | 4000 | 6000 | | 14000 |
| | Post-JM | 1 | 4000 | | | 4000 |
| CIF/SREP Coordinators | Pre-JM | 1 | 3500 | 4000 | | 7500 |
| | JM | 1 | 3500 | 6000 | | 9500 |
| | Post-JM | 1 | 3500 | | | 3500 |
| Social/Gender Specialist (consultant) | Pre-JM | 1 | 3000 | | | 3000 |
| | JM | 2 | 3000 | 4000 | | 10000 |
| | Post-JM | 2 | 3000 | | | 6000 |
| Climate Change Specialist (local) | Pre-JM | 4 | 1500 | | | 6000 |
| | JM | 2 | 1500 | | | 3000 |
| | Post-JM | 4 | 1500 | | | 6000 |
| Country Economist (local) | Pre-JM | 0.5 | 2000 | | | 1000 |
| | JM | 1 | 2000 | | | 2000 |
| | Post-JM | 0.5 | 2000 | | | 1000 |
| Agronomist (local) | Pre-JM | 0.5 | 1500 | | | 750 |
| | JM | 1 | 1500 | | | 1500 |
| | Post-JM | 0.5 | 1500 | | | 750 |
| Consultant Stocktaking | | | | | | 15000 |
| Translation | | | | | | 5000 |
| Sub-total | | | | | | 148 250 |
| World Bank | | | | | | |
| Program Coordinator Energy | Pre-JM | 0.5 | 6000 | | | 3000 |
| | JM | 1 | 6000 | 5000 | | 11000 |
| Renewable Energy Specialist | Scoping | 1 | 2500 | 5000 | | 7500 |
| | Pre-JM | 3 | 2500 | | | 7500 |
| | JM | 2 | 2500 | 9000 | | 14000 |
| | Post-JM | 3 | 2500 | 9000 | | 16500 |
| Power Engineer | Pre-JM | 1 | 3000 | | | 3000 |
| | JM | 2 | 3000 | 4500 | | 10500 |
| | Post-JM | 2 | 3000 | 4500 | | 10500 |

| | | | | | |
|---------------------------------|---------|-----|------|------|----------------|
| Senior Environmental Specialist | Pre-JM | 1 | 4000 | | 4000 |
| | JM | 1 | 4000 | 9000 | 13000 |
| | Post-JM | 1.5 | 4000 | | 6000 |
| Senior Energy Economist | Pre-JM | 1 | 4000 | | 4000 |
| | JM | 0 | 4000 | | 0 |
| | Post-JM | 1.5 | 4000 | | 6000 |
| Senior Financial Analyst | Pre-JM | 1 | 4000 | | 4000 |
| | JM | 0 | 4000 | | 0 |
| | Post-JM | 1.5 | 4000 | | 6000 |
| SREP Program Coordinator | Pre-JM | 0.5 | 5000 | | 2500 |
| | JM | 0 | 5000 | | 0 |
| | Post-JM | 1.5 | 5000 | | 7500 |
| M&E Specialist | Pre-JM | 0 | 2500 | | 0 |
| | JM | 0 | 2500 | | 0 |
| | Post-JM | 0.5 | 2500 | | 1250 |
| Sub-total | | | | | 137 750 |
| IFC | | | | | |
| Solar Energy Specialist | Pre-JM | 0.5 | 4000 | | 2000 |
| | JM | 1 | 4000 | 7500 | 11500 |
| | Post-JM | 0.5 | 4000 | | 2000 |
| Senior Investment Officer | Pre-JM | 1 | 4000 | | 4000 |
| | JM | 2 | 4000 | 3500 | 11500 |
| | Post-JM | 2 | 4000 | | 8000 |
| Investment Officer | Pre-JM | 1 | 3000 | 1500 | 4500 |
| | JM | 2 | 3000 | 3500 | 9500 |
| | Post-JM | 2 | 3000 | | 6000 |
| Operations Officer | Pre-JM | 1 | 3000 | | 3000 |
| | JM | 1 | 3000 | 3500 | 6500 |
| | Post-JM | 1 | 3000 | | 3000 |
| Sub-total | | | | | 71 500 |
| TOTAL FY11 | | | | | 357500 |

Note: Rows highlighted in light blue represent MDB staff that travelled or will travel to Bamako during Phase I.

Annex 1: Criteria for the Sub-Committee to Assess the Investment plan

- a) **Increased installed capacity from renewable energy sources:** A high priority for most low income countries is expanding their generation capacity in order to ramp up modern energy use and energy access. Therefore, SREP-funded investments should result in increased MW from renewable energy, as well as increased energy (GWh) per capita in the country.
- b) **Increased access to energy through renewable energy sources:** SREP may support grid extensions and decentralized energy systems with a view to expanding the percentage of the population with access to non-fossil-fueled electricity. Investment proposals should demonstrate how the investments are part of the Government's long term commitment to increasing energy access.
- c) **Low Emission Development:** SREP may support the use of renewable energy technologies for electricity generation and services to replace fossil fuel technologies that would be deployed in a business-as-usual scenario aimed at substantially increasing commercial energy use in low income countries. In particular, benefits from SREP investments will often arise from "leap-frogging" technologies, in which low income countries will be assisted to mainstream renewable energy technologies into the overall energy system.
- d) **Affordability and competitiveness of renewable sources:** Affordability is essential for increasing access and for ensuring the long term renewable energy market development. SREP funding should address clearly-defined cost barriers to adoption of renewable energy technologies, such as connection costs for rural consumers, higher capital costs of new technologies, transmission costs related to grid-connected renewables, and risk adjusted rates of return sought by investors.
- e) **Productive use of energy:** SREP programs should promote the generation and productive use of energy.
- f) **Economic, social and environmental development impact:** Investment proposals for SREP financing should demonstrate the generation of economic, social and environmental benefits.
- g) **Economic and financial viability:** Investment proposals should demonstrate the economic viability of investments and the financial viability with the inclusion of time bound SREP resources.
- h) **Leveraging of additional resources:** Activities should maximize the leverage of funds from other partners.
- i) **Gender:** SREP investments should seek to strengthen the capacity of women to be active participants in the economic sector and avoid negative impacts on women.
- j) **Co-benefits of renewable energy scale-up:** SREP investments should include decreased air pollutants from energy production and consumption as well as the potential to reduce stress on forest resources. Investments and activities should elaborate on the potential positive effects on air quality and natural resource management through the adoption of renewable energy technologies.

Annex 2: Suggested Structure for the Investment plan

I. Proposal Summary (2 pages)

- Objectives
- Expected outcomes
- Program criteria, priorities and budget

II. Country Context (3-4 pages)

- Energy sector description (market structure, demand supply, and dispatch composition, electricity cost and pricing) incl. renewable energy status
- Gap/barrier analysis; needs assessment

III. Renewable Energy Sector Context (3-4 pages)

- Analysis of RE options (technology, cost, mitigation potential, barriers)
- Government plans or strategy for the sector (willingness to move towards renewable energy investments, existing or envisioned policy, regulation, plans, and resource allocation)
- Institutional structure and capacity (technical, operational, financial, equipment supply, information)
- Role of private sector and leverage of resources
- Ongoing/planned investment by other development partners

IV. Contribution to National Energy Roadmap (2 pages)

- Likely development impacts and co-benefits of SREP investment
- How SREP investment will initiate a process leading towards transformational low carbon growth

V. Program Description (6-8 pages)

- Capacity building and advisory services
- Investment preparation activities
- Technology deployment investments
- Parallel activities to be funded by other development partners
- Environmental, social and gender co-benefits

VI. Financing Plan and Instruments (3-4 pages)

- Budget envelop for investments
- Costs and sources of funding
- SREP assistance (grant, concessional debt, etc.)
- Recipients of funding

VII. Additional Development Activities (2-3 pages)

- Leverage complementary co-financing with other development partners such as bilaterals, private sector, and financial institutions

VIII. Implementation Potential with Risk Assessment (2 pages)

- Country/regional risks - institutional, technology, environmental, social, financial
- Absorptive capacity for SREP and leveraged resources

IX. Monitoring and Evaluation (1/2 page)

- Results framework table

Annexes

Information should be included in annexes on the following areas:

- assessment of country's absorptive capacity
- stakeholder consultations
- co benefits
- existing activities in the field of renewable energy, particularly activities of other development partners

For each project to be implemented under the Investment Plan, an investment concept brief (maximum two pages) will be prepared as part of the Annex to the Investment Plan.

A suggested outline of an Investment Concept Brief includes:

- Problem statement (1-2 paragraphs)
- Proposed contribution to initiating transformation (1-2 paragraphs)
- Implementation readiness (1-2 paragraphs)
- Rationale for SREP financing (1-2 paragraphs)
- Results indicators
- Financing plan
- Project preparation timetable
- Requests, if any, for investment preparation funding

Annex 3: SREP Government core team and Joint-Mission MDB Team Composition

Note: Not all MDB experts will attend the mission at the same time; areas of expertise will be used at best to complement each other. It is understood that the Government is leading the mission and that the MDBs and other development partners will provide support.

| SREP Government Core Team (host) | | | | | |
|----------------------------------|--------------------------|--|--|-----------|------------|
| Institution | Name | Expertise | E-mail | Telephone | Mali based |
| DNE | Sinalou DIAWARA | Mission Leader – Lead of the National Commission | diasinalou@yahoo.fr | 66748422 | Y |
| DNE | Cheick Ahmed SANOGO | Co-Mission Leader- Member of the National Commission | nosa_159@yahoo.fr | 66989940 | Y |
| CNESOLER | Sekou Oumar TRAORE | RE Expert - Directeur du CNESOLER | sotraore7@yahoo.fr | | Y |
| CNESOLER | Alhousseini Issa MAIGA | RE Expert – Member of the National Commission | maiga_alhousseini@yahoo.fr | 76465004 | Y |
| AMADER | Ismael TOURE | Energy Expert - Member of the National Commission | itoure@amadermali.net | 66751308 | Y |
| AMADER | Agalassou ALASSANE | Energy Expert - Member of the National Commission | agalassou@amadermail.net | | Y |
| ANADEB | Hamata Ag HANTAFAYE | Biofuels Expert - Directeur de l'ANADEB | hmtafro@yahoo.fr | 66722044 | Y |
| ANADEB | Mme TERRA Aminata FOFANA | Biofuels Expert - Member of the National Commission | batomath@yahoo.fr | 66944094 | Y |
| DNACPN | Béchir SIMPARA | Environment/ Safeguards Expert - Member of the National Commission | symparabechir@yahoo.fr | 76374668 | Y |

| | | | | | |
|------|-------------------|--|--|----------|---|
| DNEF | Tidiani COULIBALY | NRM Expert - - Member of the National Commission | ticoul@yahoo.fr | 66768335 | Y |
| AEDD | Sékou KONE | Environnement Expert - Member of the National Commission | sekou_kone100@yahoo.fr | 66762961 | Y |

| MDB's | | | | | |
|--------------------|--------------------|--|--|------------------|-------------------|
| Institution | Name | Expertise | E-mail | Telephone | Mali based |
| AfDB | | | | | |
| AfDB | Mafalda DUARTE | Mission Co-Leader; CIF Coordinator and CC Specialist | m.duarte@afdb.org | +21623516274 | |
| AfDB | Nigambaye NDOUNDO | Energy Expert | n.ndoundo@afdb.org | +21671102725 | |
| AfDB | Richard CLAUDET | Private Sector Specialist | r.claudet@afdb.org | +21671102666 | |
| AfDB | Florence RICHARD | Overall Mission Support -Local CC Expert | f.quintanilha@afdb.org | +22369635408 | Y |
| AfDB | Leandro AZEVEDO | Energy and Financial Specialist | l.azevedo@afdb.org | +21625720692 | |
| AfDB | Angelo BONFIGLIOLI | Social Development (including gender) Specialist | Angelo.bonfi@gmail.com | | |
| WB | | | | | |
| WB | Peggy Mischke | Renewable Energy Specialist | pmischke@worldbank.org | +12024585935 | |
| WB | Leopold Sedogo | Power Engineer | lsedogo@worldbank.org | | |
| WB | TBD | Senior Environmental Specialist | | | Y |

| | | | | | |
|------------|-----------------|---|--|-------------------|--|
| WB | Philippe Durand | Program Coordinator Energy | Pdurand@worldbank.org | (221) 33-859-4158 | |
| IFC | | | | | |
| IFC | Koffi Klousseh | Power Sector Venture Investments Specialist | kklousseh@ifc.org | | |
| IFC | Paterne Koffi | Infrastructure Projects Specialist | pkoffi@ifc.org | +221338597100 | |

Annex 4: Other team members supporting the drafting of the Investment Plan

| Institution | Name | Expertise | E-mail | Telephone | Mali based |
|-------------|-------------------|---------------------------|--|--------------|------------|
| AfDB | | | | | |
| AfDB | Mamadou DIAGNE | Country Economist | m.diagne@afdb.org | +21671106047 | Y |
| AfDB | Abdoulaye DJIRO | Country Agronomist | a.djiro@afdb.org | +21671106036 | Y |
| WB | | | | | |
| WB | Gevorg Sargsyan | SREP Program Coordinator | gsargsyan@worldbank.org | | |
| WB | Koffi Ekouevi | Senior Energy Economist | kekouevi@worldbank.org | | |
| WB | Fabrice Bertholet | Senior Financial Analyst | fbertholet@worldbank.org | | |
| WB | Jutta Kern | M&E Specialist | jkern@worldbank.org | | |
| IFC | | | | | |
| IFC | Julio Patino | Solar Energy Expert | ipatino@ifc.org | | |
| IFC | TBD | Advisory Services Officer | | | |

Annex 5: Roles and Responsibilities of MDBs during Phase 1

| AfDB / WB / IFC | | |
|--|--|---|
| <ul style="list-style-type: none"> - Review draft Investment Plan and ensure it responds to guidelines' requirements - Review and analysis of business plans from potential sponsors - Ensure linkages with ongoing or planned energy projects in Mali - Contribute to the write up of the <i>Aide Mémoires</i> and the MDBs report - Review Project and Program Concepts, including the financing instruments being proposed | | |
| AfDB | WB | IFC |
| <ul style="list-style-type: none"> - Lead coordination of SREP Activities, providing guidance and directions on SREP implementation - Lead on the development of the Stocktaking exercise - Supervise the Environment and Social Analysis of the Investment Plan - Ensure linkages in the Investment Plan between agriculture and energy - Supervise technical aspects/inputs related to the Renewable Energy sector - Translate documents to be submitted to the SREP Sub-Committee | <ul style="list-style-type: none"> - Supervise the development of the M&E Framework of the Investment Plan - Supervise technical aspects/inputs related to the Renewable Energy sector - Provide technical support to prepare for the stakeholders meetings | <ul style="list-style-type: none"> - Private Sector scoping for investment opportunities jointly with AfDB - Structuring of potential investment opportunities jointly with AfDB - Review and analyses of advisory services opportunities for Private Sector Operators jointly with AfDB |