

PROJECT: OMVG ENERGY PROJECT

**Project Team** 

COUNTRIES: GAMBIA, GUINEA, GUINEA-BISSAU, SENEGAL

#### SUMMARY FULL RESETTLEMENT PLAN (FRP)

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Project Name: OMVG ENERGY PROJECT Project No.: PZ1-FAO-018

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**Department**: ONEC **Division**: ONEC1

#### INTRODUCTION

The Gambia River Basin Development Organization Energy Project (OMVG Energy Project) involves the following four countries: Gambia, Guinea, Guinea-Bissau and Senegal. This subregional organization is the executing agency for integrated development programmes in the region, and focuses particularly on the rational management of the joint resources of Rivers Gambia, Kayanga-Géba and Koliba-Corubal, whose basins have power-generating potential.

At the request of the authorities of the above-mentioned four countries, the African Development Bank will support the implementation of the OMVG Energy Project under co-financing arrangements with AFD, the World Bank, EIB, IsDB, KFW and the States concerned.

From the environmental and social perspective, the project is classified in Category 1, taking into consideration the nature of the works to be undertaken, the size and scope of the project, as well as its potential direct and indirect impacts.

The implementation of the OMVG Energy Project entails the expropriation, in the public interest, of buildings, farmland, crops, trees and non-residential buildings. It will also result in loss of income-generating activities.

Therefore, in accordance with the African Development Bank's policy on involuntary displacement, the Governments of Gambia, Guinea, Guinea-Bissau and Senegal have developed a Full Resettlement Plan (FRP) for the compensation and resettlement of project-affected persons (PAPs). Its objectives are to: (i) minimize involuntary displacement as much as possible; (ii) avoid the destruction of property where possible; and (iii) compensate affected persons for the loss of residential plots, farmland, buildings and equipment, as well as the loss of income.

The four countries have decided to entrust the project implementation to OMVG, their joint executing agency, and also to adopt common provisions enabling them to present the project's resettlement plan as a single document, while highlighting the specificities of each country. OMVG will be responsible for the implementation.

#### I. DESCRIPTION OF THE PROJECT AND ITS IMPACT AREA

#### I.1 Project Description

The overall goal of the OMVG Energy Project is to contribute to the socio-economic development of the member countries of the organization by increasing the populations' access to electricity. It aims to enable energy trade and improve the quality of electricity supply in OMVG member countries by providing renewable and clean energy at a competitive cost. The main outcomes of the project include: increased access to electricity, expansion of the power trade system, and creation of a regional electricity market. The use of water resources will also significantly reduce the consumption of fossil fuels and, by the same token, reduce greenhouse gas emissions.

The project components are as follows:

Components	Description
Electricity Production	Construction of the Sambangalou Hydroelectric Plant (128 MW, 402 GWh/year) in
	Senegal on River Gambia.
Electricity	Construction of: (i) a 1 677 km-long loop and a 225 kV power transmission line
Interconnection	interconnecting the four countries; (ii) fifteen (15) sub-stations for injecting power into
	national grids; and (iii) a dispatching centre for the management of power flows.
Institutional Support	Project management assistance, capacity building
Project Management	Operation of the Project Management Unit (PMU), works control and supervision,
	management of environmental and social impacts, and project audit.

The pre-construction and construction activities of the Sambangalou hydroelectric plant are expected to last four years, with the filling and commissioning scheduled for 2017 and end-2018 respectively.

# I.2 Project Impact Area

#### SAMBANGALOU HYDROELECTRIC DEVELOPMENT

The Sambangalou hydroelectric plant is located on River Gambia in Senegal, a few kilometres north of the border with Guinea and 18 km south of Kédougou. Access on the left bank is from Kédougou, upstream from Bandafassi and Yamoussa, that is, a total distance of 31 km.

The dam's reservoir will have an area of 181 km² and a volume is 3.8 billion m³, of which nearly half is useful, and the scheme will straddle Senegal (20%) and Guinea (80%). Sambangalou village, from which the site derives its name, is in the immediate vicinity of the latter.

In Guinea, the area affected by the plant is exclusively concentrated in Mali Prefecture, which has a population of 211 130 inhabitants, of whom 172 321 are rural residents. The Sub-Prefectures of Balaki (7 426 inhabitants), Salambandé (12 000 inhabitants), Lébékéré and Mali Urban Commune are the administrative units in whose jurisdictions are located the villages and sectors covered by the studies on the Sambangalou hydroelectric plant.

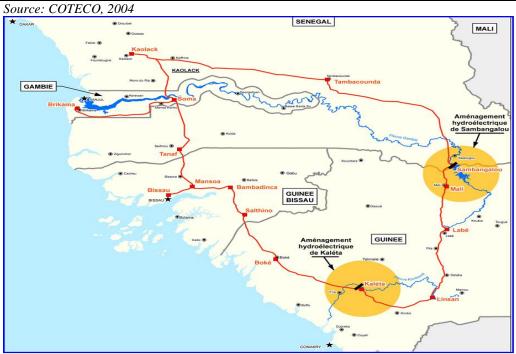
In Senegal, the reservoir and the area where the structures are located fall within Fongolombi and Bandafassi Sub-Prefectures, in Kedougou Department. The population of the Department is estimated at 78 806 people, of whom 21 86 reside in Bandafassi Sub-Prefecture and 13 450 in Fongolombi District.

The structures, service facilities, worksite installations facilities and access to the site are all located in Senegal, through which supplies and equipment will be routed. A 7 metre-wide and 24 km-long earth road will be constructed from Kédougou, on the right bank of the river, largely covering the Kedougou-Bara local road. The proposed road will include a crossing on the Gambia at Kédougou in the form of a floating bridge about 175 m long. This bridge, like the access road, will be open to normal traffic. The road will link the contractor's temporary site accommodation and that of OMVG, the power plant and crest of the dam. The access road to the Sambangalou sub-station will be built on the left bank, thus facilitating access to Tépéré Diantou.

The impact area is dominated by the forest environment, especially the wetlands bordering the River Gambia up to its mouth.

The description of the human environment is based on the administrative units affected by the project. Thus, from the Sambangalou reservoir to the sea, the administrative units affected by the Sambangalou hydroelectric plant are:

Country	Major Territorial Units			
Country	Right Bank	Left Bank		
Guinea	Labé Region Mali Prefecture			
Senegal	Kédougou and Tambacounda Regions	Tambacounda, Kédougou and Kolda Regions Vélingara Department (very little)		
	<b>Upper River Division</b>			
Gambia	Upper River Division (Basse Santa Su) Central River Division North (Janjanbureh) North Bank Division (Kerewan)	Upper River Division (Basse Santa Su) Central River Division South (Janjanbureh) Lower River Division (Mansakonko) Western Division (Brikama)		



Map showing the location of Sambangalou and the interconnection

#### INTERCONNETION LINE

The 1 677 km-long interconnection line crosses the four OMVG countries: Guinea, Senegal, Gambia and Guinea-Bissau. The interconnection will supply the four member countries with power generated by Sambangalou and Kaleta facilities and other power plants in the OMVG/ECOWAS zones.

The population of the interconnection study area is estimated at 3 347 303 inhabitants, shared between Guinea (1 850 078 inhab.), Senegal (989 187 inhab.), Gambia (308 906 inhab.) and Guinea-Bissau (199 132 inhab.). Most of the project-affected persons live in rural areas on agricultural, livestock and handicraft production.

#### In Senegal

The projected transmission line in Senegal will cross Tambacounda, Kaolack and Kolda Regions. Specifically, in each of these regions, it will cross the departments, urban communes, districts and rural communities (CR) presented in the table below:

REGION	DEPARTMENT	DISTRICT	RURAL COMMUNITY/COMMUNE
	Kédougou	Bandafassi	Bandafassi
			Tomboronkoto
		Koumpentoum	Bamba Ndiayene
			Koumpentoum
			Maleme Niani
TAMBACOUNDA		Koussanar	Koussanar
TAMBACOUNDA	Tambacounda	Koussanar	Sinthiou Malene
	Tampacounga	Maka Coulibatang	Ndoga Babacar
			Dialakoto
		Missirah	Missirah
			Netteboulou
	Kaffrine		Birkilane
		Birkilane	Mabo
			Ndiognick
		Maka Yop (Koungheul)	Ida Mouride
			Maka Yop
KAOLACK			Saly Escale
		Maleme	Kahi
			Maleme Hoddar
		Nganda	Kathiotte
	Nioro du Rip		Kayemor
	Moro du Kip	Médina Sabakh	Médina Sabakh
			Ngayene
		Bounkiling	Diaroumé
	Sédhiou		Ndiamacouta
KOLDA		Diende	Sakar
		Tanaff	Karantaba
			Simbandi-Brassou
G 4.1.1.1.1.1	C.C. 1		Tanaff

Source: Administrative map of Senegal

It should be noted that in all the regions, only a tiny part of the territory will be affected by the project. The identified districts and rural communities allow for better tracking of the power transmission corridor in each region.

#### In Guinea

The transmission line crosses two major natural regions from north to south, known as Lower Guinea and Middle Guinea. These major regions include various administrative regions and prefectures partially affected by the transmission line. For the purposes of this analysis, the prefectures taken into consideration are those with a relatively large part of the territory affected by the project. The administrative regions and prefectures considered are shown in the table below:

AREA	REGION	PREFECTURE
	Labé	Mali
	Luse	Labé
MIDDLE GUINEA (MOYENNE GUINÉE)		Pita
	Mamou	Mamou
		Dalaba
	Kindia	Kindia
LOWED CHINEA (DACCE CHINÉE)	Kiliula	Dubréka
LOWER GUINEA (BASSE GUINÉE)		Bofa
	Boké	Fria
		Boké

Source: Administrative Map of Guinea.

#### In Guinea Bissau

The power transmission line will pass through three provinces in Guinea-Bissau, namely the Northern, Eastern and Southern Provinces. In the provinces, the project will affect Oio, Bafatá and Tombali Regions respectively. More specifically, in each of these regions, the transmission line will cross the sectors shown in the table below. The transmission line will end at the point of entry into the Bissau Autonomous Sector (BAS).

PROVINCE	REGION	SECTOR
		Farim
		Bissora
NORTH	Oio	Mansaba
		Mansoa
		Nhacra
EAST	Bafatá	Bambadinca
EAS1		Xitole
SOUTH	Tombali	Quebo
BISSAU	Bissau	Bissau

Source: Administrative Map of Guinea-Bissau.

#### In Gambia

The power transmission line will pass through three divisions in Gambia, namely the Western, Lower River and North Shore Divisions. These divisions correspond to the local government regions of Brikama, Mansakonko and Kerewan respectively. Within these divisions, the line will cross the 11 districts identified in the table below:

DIVISION	DISTRICT
	Kombo Central
	Kombo East
	Kombo South
WESTERN	Foni Brefet
	Foni Bintang-Karenai
	Foni Kansala
	Foni Bondali
	Foni Jarrol
	Kiang Central
LOWER RIVER	Kiang East
LOWER RIVER	Kiang West
	Jarra West
NORTH BANK	Upper Baddibu

Source: Administrative Map of Gambia.

#### II. POTENTIAL IMPACTS

#### SAMBANGALOU HYDROELECTRIC PLANT

During the construction phase, the major negative impacts on the human environment concern the displacement of the communities of the reservoir area, implications for the health of these communities and the workers, loss of farmland and lack of means of crossing the river in the dry season.

For the Guinean portion of the reservoir, which will cover an area of 149 km², a population of about 1,130 people will be moved from 8 villages of Mali Prefecture (Labé Region). Regarding the Senegalese portion spanning an area of 32 km², a population of about 200 people will need to be moved from 3 villages in Fongolembi and Bandafassi Departments (Kédougou Region). As for the construction of the 24 km-long access road in Kédougou on the right bank of the river and a floating bridge on the Gambia in Kédougou, it will entail the displacement of about 106 people.

Impacts concerning the displacement of communities are as follows:

- Loss of productive land (farmland and pasture);
- Potential loss of income for displaced persons;
- Loss of public goods, cultural and religious heritage;
- Potential loss of social identity and social dislocation;
- Disruption of the activities of the displaced men and women and host communities;
- Lack of natural resources in the vicinity of host sites;
- Exclusion of vulnerable persons from the project benefits;
- Potential increase in the workload of women and children; and
- Potential psycho-social trauma (loss of sense of belonging and/or feeling of insecurity).

The following risks were identified:

- Potential losses for women relating to the compensation criteria and/or mechanisms if the right of use is not taken into account in the compensation process and if the access of women and heirs to land is limited;
- The main risks faced are: the possible inability of local authorities and institutions to manage resettlement and development activities;
- Risk of food shortage and increased malnutrition; and
- Potential insecurity during the displacement and resettlement process.

During the operational phase, the negative impacts of the Sambangalou project will relate to health, especially in terms of water-borne diseases, as well as to accidents and drowning, decreased fishing yields downstream of the dam and loss of natural resources used by the communities.

Moreover, the adoption of environmental and social management measures and the development of the communities created by the dam construction should result in a number of positive impacts: improvement in the living conditions of the displaced population; improvement in the accessibility of the project area; creation of job opportunities and improvement in incomes; development of fishing; creation of farmland; improvement in infrastructure and creation of new services.

#### INTERCONNECTION LINE

Regarding the interconnection line, at the current stage, the final route has not been determined precisely. The area reserved for the installation of the line avoids the most sensitive sites, and will be helpful in determining a final route entailing very little or no physical displacement.

For now, no survey has yet been conducted to identify and record losses. However, loss assessment was established from analysis of satellite images produced on scale of 1:700 000, making it possible to identify the major classes of land use. The corridor of the interconnection line mainly runs through agricultural areas where there are no buildings or large trees.

In order to reduce the negative impacts to the strict minimum, the following measures are envisaged: (i) In the savannah or very thinly wooded zone, the right-of-way of the 225-kV single-circuit and double-circuit lines is 40 m wide; (ii) In the wooded zone, after pylon distribution, if required, the width of the right-of-way will be adjusted to minimize the felling of trees, while providing a safety clearance that meets the installation and maintenance requirements (revised from 40 m to 30 m and even 20 m); (iii) For each of the 15 sub-stations, an area of 250 m x 300 m was provided within which the sub-station will be built. This area constitutes a right-of-way reserved exclusively for the electrical equipment of the sub-station, complemented by a buffer zone.

On this basis and at this stage, the identified residual impacts are as follows:

On the biophysical environment, the only identified impacts, requiring environmental monitoring, is the deforestation in classified forests. The planned compensation measure is the implementation of reforestation within these highly classified forests. For other elements of the natural environment, those affected by the project are not particularly sensitive to the passage of a power line and those that could be have been avoided (national parks, for example) or are protected by appropriate measures (wetlands);

- On the human environment, the impacts mainly concern the farming areas whose surface area under the line is estimated at around 2 000 ha. During the construction phase, the damage to the soil will lead to partial or total crop losses for some households. During the operational phase, the permanent loss of farmland will be limited to areas under pylons or occupied by sub-stations, and those destroyed by the construction of permanent access roads.

The exact identification of the various types of losses will be conducted concurrently with the implementation studies of the selected companies, according to the following stages: (i) issue of decrees relating to declaration of public interest (DUP) - May 2015; (ii) implementation study – as from June 2015; (iii) evaluation of assets based on field surveys – as from June 2015; and (iv) indemnification and compensation – as from July 2015.

#### III. ORGANIZATIONAL RESPONSIBILITY

The organizational responsibility for implementation of environmental and social measures of the power project involves four categories of players: the contracting authority; the contractor; and the operators and administration of the States responsible for environmental and social safeguards. The table below shows the composition of the agencies involved in the implementation of the resettlement plan (RP) and the environmental and social management plan (ESMP).

Agency	Internal Organization	Role
Gambia River Basin Development Organization (OMVG)	<ul> <li>Executive Secretariat responsible for supervising the power project and ensuring overall socio-environmental coordination</li> <li>Department of Studies, Planning and Infrastructure</li> <li>Department of Agriculture</li> <li>Administrative and Financial Department</li> </ul>	<ul> <li>Project owner</li> <li>Supervision of PMU through monitoring of its performance contract</li> <li>Approval of RP and ESMP programmes and budgets</li> </ul>
Project Management Unit (PMU)	<ul> <li>An Environmental Unit</li> <li>A Technical Management Unit</li> <li>An Administrative and Financial Management Unit</li> <li>Based in Dakar</li> </ul>	<ul> <li>Day-to-day monitoring of implementation of RP and ESMP measures</li> <li>Coordination, planning and proper implementation of project components</li> <li>Monitoring-evaluation and control of activities</li> <li>Administrative, financial and accounting management</li> <li>Support to OMVG for launching of competitive bidding and contract awards</li> <li>Secretariat of the Project Monitoring Advisory Committee (CCS).</li> </ul>

Monitoring Advisory Committee (CCS)  Technical Assistance for Project Owner (ATMO)	<ul> <li>Actors involved in the project: NGOs, experts, ministries, public agencies, technical and financial partners, etc.</li> <li>Actors.</li> <li>International recruitment</li> <li>Based in Dakar</li> </ul>	<ul> <li>Participatory and consultative role</li> <li>Coordination, focus and monitoring of project activities</li> <li>Contribution to establishment of PMU and building of its monitoring-evaluation capacity.</li> </ul>
National Monitoring Committees (CNS)	<ul> <li>Chaired by the Head of the National OMVG Unit</li> <li>Ministry in charge of Energy</li> <li>Ministry for the Interior</li> <li>Ministry in charge of Local Government</li> <li>Ministry in charge of Finance</li> <li>Ministry in charge of the Environment</li> <li>Ministry in charge of Agriculture</li> <li>Ministry in charge of Lands</li> <li>National Electricity Corporation</li> <li>Project Team (permanent staff): a team leader, an officer in charge of relations with government services/communication, an accountant, a</li> </ul>	Monitoring and supervision of field activities     Administrative facilitation     Monitoring and implementation of environmental and social aspects
Local Coordination and Monitoring Committees (CLCS)	Secretariat     Permanent staff: a facilitator, a communication officer, a secretariat, and an assistant accountant     Other participants, according to the problems: representatives of project-affected persons, representatives of local authorities, representatives of government services, development projects, private institutions and NGOs, and Territorial Administration	<ul> <li>Relationship between the project and the local population</li> <li>Management of disputes and complaints</li> <li>Monitoring of implementation of development measures</li> <li>Monitoring the population's acceptance of the measures implemented: compensation, indemnification, resettlement, consultation, information, advocacy, and dispute management</li> </ul>
Engineering Consultant (IC)	<ul> <li>Technical engineers</li> <li>Officer in charge of environmental and social issues</li> <li>Offer in charge of hygiene and safety</li> <li>Field inspectors</li> </ul>	<ul> <li>Control, supervision and monitoring of the construction of the interconnection and Sambangalou structures</li> <li>OMVG representation in dealings with contractors</li> </ul>
Operators	<ul> <li>Private institutions and NGOs</li> <li>Entrepreneurs</li> <li>Consulting Firms</li> <li>Local population (farmer cooperatives, associations, etc.)</li> </ul>	- Implementation of measures to mitigate negative impacts, as well as enhancement measures
State Services	<ul> <li>Services responsible for environmental and social monitoring of projects</li> <li>Other services depending on the issues at stake</li> </ul>	- Monitoring of proper implementation of the ESMP and RP

#### IV. COMMUNITY PATICIPATION / PUBLIC CONSULTATION

#### SAMBAGALOU HYDROELECTRIC PLANT

The people were consulted as part of feasibility studies in 2002 and throughout the conduct of environmental and social assessment from November 2005 to February 2006 and during the update of the environmental documentation in August 2014. These consultations were complemented by those held between December 2014 and February 2015, which included the residents of host villages. There has been little change in the people's expectations and concerns over this period:

The expectations of the local population are: access to electricity; employment opportunities at the site; opening of roads and improvement of the area's accessibility; construction of local schools offering complete primary cycle to enable children to study with ease; construction and equipment of health posts for easy access to health care; construction of boreholes for drinking water; poverty reduction; development of fishing; and development of new activities.

The concerns of the local population are: loss of farmland; loss of homes; displacement and resettlement of people; loss of socio-economic infrastructure; fears about the compensation and resettlement process, especially among people who had anticipated their displacement, and consequences of the delayed start-up of the project; fear of not having enough clean water once resettled; fear of not being adequately compensated and not being able to maintain the same standard of living; and impacts on the natural environment.

The consultations also helped to identify the population's preferred options regarding compensation and indemnification.

They were also helpful in clarifying the choice of resettlement sites. The main options discussed focused on the following points: (i) Compensation conditions; (ii) Building type; (iii) Spatial organization of villages; (iv) Resettlement sites; and (v) Compensation for sacred sites.

The project-affected persons (PAPs) consulted agreed that the loss of land (residential plots and farmland) incurred due to the filling of the reservoir should be compensated for, preferably in kind; however, the possibility of receiving compensation in cash will be considered if the situation so warrants (e.g. total change of activity or place of living).

From the results of the technical studies for the final selection, host sites will finally be selected after consultation with representatives of the affected communities. These are the sites that will be presented to PAPs to enable them to select their resettlement site.

During the construction phase, the following arrangements will be made to inform people:

ACTIVITIES	PROJECTED PERIOD	SCOPE
Establishment of information points within Local Coordination and	July 2015	Local
Monitoring Committees (CLCS)		
Circulation of copies of the environmental and social documentation	July 2015	National / regional / local
within the CLCS		
Update of the environmental and social (E&S) documentation based	July 2015	International / national /
on individual public surveys of PAPs		regional / local
Announcement in the national press and local audio-visual media	August 2015	National / regional / local
concerning the start of the compensation process and population		
displacement		
Local radio/TV broadcasts on the start of works and the procedure for	September 2015	National / regional / local
getting access to the jobs created by the site		
Nationwide dissemination and online posting of monitoring reports of	2015, 2016, 2017, 2018	International / national /
the E&S expert panel in charge of monitoring the construction of the		regional / local
dam and power transmission line		
Periodic consultation of the population, on an informed basis,	2015, 2016, 2017, 2018	Regional / local
regarding the implementation of E&S measures of the Resettlement		
Action Plan (RAP) and ESMP		

Consultations will continue once the population is displaced to ensure that resettlement is carried out under satisfactory conditions and that the support measures actually help to improve living conditions. The monitoring arrangements are as follows: conduct of socio-economic surveys, and communication activities targeting the population. These activities will be complemented by the establishment of a mechanism for managing complaints and monitoring indicators related to the socio-economic situation of the area.

#### INTERCONNECTION LINE

At the completion of the feasibility and ESIA study, institutional consultations were conducted by COTECO Firm.

Under the partial land investigations conducted in 2014 for sub-stations, consultations were held with PAPs in the presence of local authorities. The challenges of the project, its impacts and the principles adopted in respect of compensation and indemnification were presented to the local population. Overall, they welcomed the project, but had a major concern regarding the terms of payment of compensations.

Provisions similar to those relating to the Sambangalou scheme will also be adopted for the study on the construction of the interconnection line.

It should be noted that the World Bank, which is co-financing only the interconnection line, published the environmental and social document on its website in 2014. (http://www.worldbank.org/projects/P146830?lang=en).

#### V. INTEGRATION WITH HOST COMMUNITIES

#### SAMBAGALOU HYDROELECTRIC PLANT

To facilitate full integration with host communities, the following measures will be taken: (i) Consultation with host villages; (ii) Compensation of host villages; (iii) Implementation of a development programme.

Consultation with host villages is underway. There have been several informal discussions between the displaced and villages hosts. To validate the agreements between villages, the discussions will be formalized under the supervision of the local authority and will be contained in a document signed by the three parties. The main concern centred on conflict prevention. In that regard, an agreement would be formally established between the villages containing at least the following information: demarcation of the areas provided to the displaced population, terms of use of space and any pooled infrastructure, and measures for compensating the host population.

The compensation of host villages for public goods was assessed with the aim of pooling infrastructure with these villages. Precise identification of the needs of host communities is also underway and will eventually help to adjust the proposed compensation for public goods. Depending on the distances and type of relationships that the villages will forge, infrastructure could be pooled or otherwise.

**Development measures** are an essential component of integration with host communities. Significant differences may appear in terms of the quality of the habitat. However, it is important to ensure that socio-economic development is uniform throughout the area hosting the displaced villages.

The measures could be considered as a development project with various components aimed at:

- supporting development planning (one measure);
- ensuring economic development based on sustainable management of natural resources (10 measures); and
- ensuring socio-cultural development (2 measures).

As regards the Sambangalou project, the key development measures are as follows:

- Local development planning: the measures proposed by the Sambangalou project must comply with the Local Development Plan (PDL), or be integrated with the PDL after validation by Rural Communities (CR) and Rural Development Committees (CRD). Since the Sambangalou project will profoundly change the local context, it is advisable to have the PDL assessed accordingly so that local authorities may have up-to-date planning documents;
- Agro-sylvo-pastoral development: The purpose of this measure is to encourage the practice of sedentary agriculture instead of shifting cultivation by improving subsistence farming through crop diversification and promotion of fruit-tree planting and agroforestry on the deep soils of hillsides;
- Improvement of family agriculture: The aim of this measure is to improve rain-fed crop yields and thus increase production on areas equivalent to those currently cultivated;

- Perennial crops and plantations: This development programme is designed to restore, as much as possible, production and income derived from fruit growing, forest plantations/nurseries and forest-product gathering;
- Action research in agriculture: The goal of this development programme is to gradually build sustainable production systems for key activities in the project area: rain-fed cropping on hillsides and forest exploitation. At the end of the support provided to the resettled communities, they will have adopted and mastered such techniques as the practice of shortterm fallowing and agroforestry;
- Improvement of family livestock production: The programme seeks to increase incomes through small livestock rearing (small ruminants and poultry), which may thus compensate for the loss of income related to other activities also practised by women; and
- Generation of farm-related incomes: The objective of this programme is to capitalize on the new market opportunities and help maintain and increase family incomes by expanding and improving post-harvest activities, at both family and group levels.
- Improvement of fishing as a secondary activity: This programme aims to develop fisheries resources created by the future reservoir. It will include support for the purchase of nets and plank canoes a measure desired by fishermen met on the site training of village neophytes and establishment of rules governing fishing activities on the lake;
- Development of handicraft and support for reconversion: This programme aims to support
  craftsmen in the study area who use antiquated techniques and risk being superseded by the
  better equipped and better trained immigrant craftsmen, in a context where the inflow of
  development support, immigration and construction programmes will lead to increased
  demand for services and products;
- Maintaining social harmony: The development activities envisaged under the resettlement plan (RP) require the building of producers' capacities in terms of organization into groupings, reading, writing and numeracy for adults, through a functional literacy programme;
- Human capacity building: The aim of this programme is to maintain, as much as possible, intra-family, intra-community and inter-community harmony during the displacement despite immigrant influences;
- Strengthening of rural services: This programme aims to support input supply, marketing and microfinance;
- Land security: The formal security of land tenure rights, as well as those of land use, is a prerequisite for ensuring sustainable management of natural resources throughout the subregion.

#### VI. SOCIO-ECONOMIC STUDIES ON AFFECTED PERSONS

#### SAMBAGALOU HYDROELECTRIC PLANT

The population density in the area around the proposed dam is low. The 10 villages that need to be moved have a total population of 1 436 people, including 733 women, grouped in 180 households. The 10 villages subject to displacement and resettlement are: Sambangalou/Niambara; Néoudou; Diaré; Parabanta, Moussouly Koto, Missira, Tiéwiré, Souléré, Tembouguidaré, and Doundounk Saara. The distribution of households per village is presented in the table below.

# Population and Households

Countr	Department/ Prefecture	District/ Sub- Prefecture	Villages and Hamlets Name	Number of Households	Population
		Fongolembi	Sambangalou / Niambara	22	141
Senegal	Kédougou	Bandafassi	Néoudou	24	193
	<b>V</b> 2	Balaki	Diaré	11	98
			Parabanta	10	72
			Moussouly Koto	7	27
	Mal:	Lébékéré	Missira	24	234
	Mali		Tiéwiré	46	348
_ a	- I	Mali Carre	Souléré	13	100
Guinea		Mali-Centre	Tembouguidaré	12	99
Gui			Doundou Saara	11	124
	Total			180	1 436

Generally, the population is increasing. In some villages, however, the number of households has declined, especially in Sambangalou and Niambara where part of the population anticipated the resettlement and moved to other villages.

The population of the displaced villages is young, with youths under 20 accounting for 60% of the total. The Peulhs make up the main ethnic group; the villages are generally mono-ethnic. Among the displaced villages, Missira stands out with a population essentially composed of the Mandingo, Sarakholé and Djakhanké ethnic groups.

The level of education is low and the illiteracy rate stands at 90% for men and 98% among women. The main causes of morbidity are malaria and acute respiratory infections.

The household head is usually a man and one in two households is polygamous.

There are no indigenous or minority populations in the dam's impact area; however, several households are considered vulnerable.

Households considered vulnerable were identified on the basis of the following criteria: Female heads of household; heads of households aged over 60; people with disabilities; and people with chronic illnesses. Based on these criteria, 55 vulnerable households were identified, representing 31% of the total number of households. The table below shows the number of households per village, distinguishing three levels of vulnerability depending on the cumulative criteria:

VILLAGES	Female heads of household	Heads of household aged over 60 years old	Persons with disabilities	Persons chronic illness	TOTAL
TOTAL	21	24	10	0	55

To control the project impacts on the vulnerable population, the following measures will be implemented: (i) specific provisions adopted during the consultations identified vulnerable households and will be monitored specifically by dedicated staff; (ii) material assistance (provision of a vehicle) to move displaced persons who cannot afford to move on their own; (iii) a one-time food assistance during the resettlement period; (iv) a one-time cash assistance during this period to allow mainly for the hiring of labour to perform some physical work; and (v) facilitate access to medical care.

In the 10 villages to be displaced, there are a total of 506 residential houses, 345 toilets / showers, 218 kitchens, 101 animal pens, 113 chicken coops, 150 barns and other fixed structures such as warehouses, latrines, tombs, wells, entrance enclosures and ovens. In most cases, the houses are built of mud-bricks, *banco* (a mixture of mud and straw) and straw. The other buildings are also constructed with traditional materials.

The average cultivated area per household is 4.47 ha. Lowland farming accounts for 12% of cultivated areas, and was identified in 5 of the 10 villages.

The area of farmland available to the resettled villagers was also estimated based on the population census survey. The needs in terms of fallow land in the study area were estimated at three times the area used for slash-and-burn farming.

Surface areas of village farmland in the reservoir area

	F	'armland (ha)	
Village / Hamlet	Slash-and-burn Farming	Lowland Farming	TOTAL
TOTAL	707.6	96.6	804.2

Source: Population census for the reservoir area, MSA / Oréade-Brèche, August 2014.

The main crops grown in the area are, in order of importance, groundnuts, maize, fonio, millet and rice.

Regarding farmland situated on the layout of the access road, it is estimated that about 2.5 ha of farmland and its crops will be lost, requiring compensation. This preliminary assessment will be validated during the update of the land ownership statement. The affected farmland extends from National Road 7 (RN 7) to the planned bridge on the river, with few farmland areas located just south of this bridge.

The total number of identified trees is about 5 000.

Public infrastructure is limited in the villages listed. In the whole area, there are only four schools, one health hut, nine water points, seven mosques, and 10 cemeteries (exhumation/burial). The communication lines are poorly developed, and the villages are not easily accessible.

The main activity in the area of the future reservoir is agriculture. Overall, land is available and the area is vast and sparsely populated. Most of the land is managed on a community basis,

according to customary law. Stockbreeding is a form of savings on-the-hoof. In addition, it serves a function and the animals are also used for animal traction and their dung as manure in *tapades*. Forest product gathering is relatively widespread and more particularly concerns *néré* (*monkey bread*), shea and non-food products. The other activities (fishing, hunting, trade and handicraft) are less developed.

Very wide income disparities are observable depending on the households and activities considered. The average annual household income is estimated at CFAF 872 257, which corresponds to an average per capita income of CFAF 109 336. The highest annual income per household is about CFAF 19 million and the lowest is equal to CFAF 7 500.

#### LINE INTERCONNECTION

From an initial analysis of satellite images, a rough assessment was made of farmland and pastures that will be affected, requiring replacement with other land or monetary compensation. It was estimated that about 30% of the transmission line will cross farmlands. Given that the total length of agricultural or pastoral land crossed by the line is estimated at 510 km and that the right-of-way is 40 metres wide, the total agricultural land taken up by the right-of-way stands at 2 040 ha. To this should be added the areas taken up by the construction of access roads which, like those lost to the transmission line, will be calculated as the work progresses.

Regarding the sub-stations, land investigations were conducted in 2008 and updated in August 2014. The investigations identified the affected agricultural plots and houses, and made an initial assessment of compensation. Of all the affected persons identified, only one had a land title (Bissau sub-station).

Structures were also identified within the right-of-way of a number of sub-stations, but these were only individual property, residential houses for the most part.

The table below summarizes all the property identified in the seven sub-stations located in farmlands or near homes. The other sub-stations are located in uninhabited areas.

Table 1
Private property identified along the interconnection line

Sub-Station	Annua	l Crops	Fruit	Trees	Homes		
	Area (ha)	Number of	Number of	Number of	Unit	Number of	
		PAPs	trees	PAPs		PAPs	
Boké	0.5	1	0	0	0	0	
Labé	1.2	4	0	0	3	3	
Mansoa	0	0	1 422	3	0	0	
Bissau	0	0	0	0	0	0	
Bambadinca	0	0	1 510	4	0	0	
Saltinho	0	0	966	6	0	0	
Tanaff	0	0	0	0	0	0	
Total							

Source: Population census for the reservoir area, MSA / Oréade-Brèche, August 2014.

Farmland and homes affected by the interconnection line may therefore be finally presented as follows:

#### Under the line

- o 6.52 hectares of farmland and grazing land lost permanently under the pylons;
- 2 040 ha of farmland and grazing land within the right-of-way of lines and between the pylons. These areas might possibly be subject to loss of agricultural income if construction works clash with cropping calendars;
- o Fruit trees.

#### Under the sub-stations

- o 1.7 ha of cultivated farmland lost permanently under the sub-stations;
- o 3 households with homes that will be identified during implementation studies;
- o Plantations of fruit trees, particularly cashew trees.

As regards land for compensation, the permanent loss of 8.22 ha of farmland and grazing land may therefore be envisaged, requiring compensation in kind.

Land loss due to the construction of access roads is also to be expected. However, at this stage of the project, nothing is known about the location, number or length of the access roads. On the other hand, as regards compensation for land ownership, it is very likely that those using land affected by access roads have no official title deeds. Therefore, no monetary compensation is envisaged for the replacement of land affected by access roads. However, the lost land will be replaced by other pieces of land, probably State-owned land requiring no expropriation and for which no costs would be incurred.

# VII. LEGAL FRAMEWORK, INCLUDING DISPUTE RESOLUTION AND APPEAL MECHANISMS

The legal framework consists of key environmental and social legal provisions enacted by the Governments of Guinea, Senegal, Gambia and Guinea-Bissau. It also comprises applicable international conventions to which the three countries have acceded.

- ✓ IN GAMBIA: State Land Regulations define the rules governing the allocation of State lands for agricultural purposes, and provisions relating to the demarcation and management of forest areas, "green belts" and "buffer zones". The right to property is protected by Section 22 of Chapter 4 on the Protection of Fundamental Rights and Freedoms of the Constitution of the Second Republic of Gambia, which was adopted on 8 August 1996, entered into force in January 1997, and whose last amendment dates from 2001. When this right is violated under the conditions provided by the legislation in force, the Land Acquisition and Compensation Act (1990) and the State Lands Act (1990) constitute the legal framework for population resettlement.
- IN GUINEA: The Code on Private and State-owned Land determines the rules of land acquisition by private persons and determines State-owned land and land belonging to other public entities. It also specifies the terms and conditions for human rights protection, particularly by organizing the process for land registration and the registration of rights in rem. The new Federal Code on Private and State-owned Land provides that, besides the State, other natural and legal persons may hold property rights on land and the buildings erected thereon. The Code on Private and State-owned Land provides precisely for the case of restriction of property ownership rights. Thus, restrictions on property ownership rights will stem from: (i) expropriation for public purposes; and (ii) establishment of public easements. The system of expropriation in the public interest is also defined by the Code on Private and State-owned Land. The provisions are relatively conventional. Expropriation is subject to fair compensation paid in advance by mutual agreement and, failing this, by court decision. The expropriation procedure occurs in three phases: (i) administrative: investigation; declaration of public utility; deed of transferability; notification; identification of tenants and property rights holders; etc.); (ii) amicable; and (iii) possibly judicial. The timeframe for the conduct of the expropriation is always indicated and may not exceed three years.
- ✓ IN GUINEA-BISSAU: The resettlement framework in Guinea-Bissau is provided by *Lei da Terra* No. 5/98 (Law No. 5/98 of 23 April 1998). This law defines the legal framework for expropriation and compensation in Guinea-Bissau. It enshrines customary rights to land-use with a number of innovations. Under this law, the State may expropriate for reason of public welfare. Expropriation is carried out under the conditions provided by the *Lei da Terra*, and compensation is based on the market value principle with no allowance for depreciation. This law provides also for the establishment of land commissions to ensure implementation of this law and coordination between the various levels of intervention in land-use.

Guinea-Bissau's land law is in line with international standards in almost every respect. The major difference between national legislation and international standards is the legal obligation of economic rehabilitation. Thus, even though the legal framework for expropriation and rehabilitation is based on Guinea-Bissau's legislation, the higher of the two standards will apply in the event of discrepancies, since the higher standard automatically meets the requirements of the other standard.

✓ IN SENEGAL: Senegal's Constitution of 7 January 2001 (Article 15) guarantees the right to property ownership. In this country, land tenure regulation is based on Law No. 64-46 of 17 June 1964 organizing the management of the landed property sector. Land is divided into three categories: (i) national land, which consists of land that is not classified in the public domain, not registered or whose ownership has not been recorded with the Deeds Registration Office; (ii) State land, which comprises public and private lands, refers the State's rights in and ownership of movable and immovable property; (iii) private land refers to land registered in the name of private individuals.

Regulations on expropriation in the public interest are based on Law No. 76.67 of 2 July 1976 and Implementation Decree No. 77.563 of 3 July 1997. Law No. 76-67 defines the expropriation procedure by which the State may, in the public interest and subject to fair and prior compensation, as well as in accordance with the Constitution of 7 January 2001, constrain any person to surrender ownership of privately owned moveable or immoveable property. This law constitutes the legal basis of displacement and compensation procedures. The usual procedure for expropriation in the public interest comprises: (i) an administrative phase (investigation, declaration of public interest, transferability statement and conciliation) which may, failing an amicable agreement, lead to: (ii) a judicial phase during which the transfer of ownership is decided by the judicial authority concurrently with the compensation amount. Despite the absence of a displacement and compensation policy framework, it must be acknowledged that in Senegal there are mechanisms for the resettlement of communities, particularly in terms of restructuring and land regularization.

AFRICAN DEVELOPMENT BANK (AfDB) POLICIES ON INVOLUNTARY DISPLACEMENT OF PEOPLE: Operational safeguard 2 - involuntary resettlement concerns AfDB-financed projects that cause involuntary resettlement of people. It results in: (i) Relocation or loss of shelter by people residing in the project-impact area; (ii) Loss of assets (including loss of structures and assets of cultural, spiritual, and other social importance) or restriction of access to assets, including national parks and protected areas or natural resources; and (iii) Loss of income sources or means of livelihood as a result of the project, whether or not the people affected are required to move. The specific objectives of this Operational Safeguard are to:

- Avoid involuntary resettlement where feasible, or minimize resettlement impacts where involuntary resettlement is deemed unavoidable after all alternative project designs have been explored;
- Ensure that displaced persons are meaningfully consulted and given opportunities to participate in the planning and implementation of resettlement programmes;
- Ensure that displaced persons receive significant resettlement assistance under the project, so that their standards of living, income-earning capacity, production levels and overall means of livelihood are improved beyond pre-project levels;
- Provide explicit guidance to borrowers on the conditions that need to be fulfilled regarding involuntary resettlement issues in Bank operations to mitigate the negative impacts of displacement and resettlement, actively facilitate social development and establish a sustainable economy and society; and
- Guard against poorly prepared and implemented resettlement plans by setting up a mechanism for monitoring the performance of involuntary resettlement programmes in Bank operations and remedying problems as they arise.

- ✓ CONSISTENCY BETWEEN THE LEGAL FRAMEWORK OF THE FOUR COUNTRIES AND AfDB PROCEDURES: The main points on which AfDB policies require going beyond the national regulations of the four countries concerned are:
  - Priority of compensation in kind over cash compensation, especially for land where the "land-for-land" option should be preferred where feasible;
  - Compensation for full replacement value, where cash compensation is to be applied (fruit trees and houses);
  - Support for the restoration of income and livelihoods (farming, fishing, stockbreeding, forest product gathering, handicraft);
  - Compensation for commercial and handicraft activities;
  - Participation of affected persons in the entire resettlement process; and
  - Monitoring and evaluation, including support measures (training, technical support, subsidized loans, etc.).
- MANAGEMENT OF COMPLAINTS AND DISPUTES: In practice, complaints and conflicts that arise during the implementation of a resettlement and compensation programme may be the following: errors in property identification and assessment; disagreement over land boundaries either between the affected persons and the expropriation agency or between two neighbours; conflict over property ownership (two or more affected persons claiming ownership of the same property); disagreement on the assessment of a plot of land or other property; inheritance, divorce and other family issues, resulting in conflicts between heirs or members of the same family, over the ownership or partial ownership of a given property; disagreement on resettlement measures, for example, the type of proposed housing or the characteristics of the resettlement plot.

In addressing complaints, preference could be given to the following extra-judicial channels: (i) additional explanations (e.g. explain in detail how the project calculated the complainant's compensation and show that the same rules apply to all); (ii) arbitration, involving elders or persons respected in the community, while being from outside community.

Each affected person, while obviously maintaining the option of seeking redress before the courts of his/her country, could appeal to this mechanism, which will comprise two main steps: (i) registration of the complaint or dispute by the project manager; and (ii) amicable settlement with the help of mediators independent from the project.

The project will use National Monitoring Committees (CNS), as well as Local Coordination and Monitoring Committees (CLCS) also responsible for conflict management and mediation in population displacement.

After a complaint has been registered, the complainant(s) will be summoned to appear before the Mediation Committee, which will attempt to propose a solution acceptable to both parties. If necessary, additional meetings will be organized and the Committee may appoint one of its members to continue the arbitration in a less formal setting than the monthly meetings. If no agreement is reached, the parties may resort to the courts. To facilitate access by PAPs to the legal process, the expropriation judge will sit in the chief-town of the Department or Prefecture where the complainant resides. The PMU will assist vulnerable PAPs in order to facilitate their access to legal services on a prop bono basis with the help of NGOs. Furthermore, the settlement of a dispute cannot delay the displacement of a community as that would unduly slow the project implementation process. It is therefore envisaged that if a dispute goes to court and the latter cannot hand down its decision prior to the displacement date, the affected person who appealed his/her case will be compensated according to the decision of the expropriations judge, but that an adjustment will be made after the displacement if the court so decides.

#### VIII. INSTITUTIONAL FRAMEWOK

The institutional framework for implementation of the resettlement plan consists of OMVG, the Delegated Project Manager, and the Government service responsible for environmental and social monitoring.

The current OMVG team is enough to meet the needs of the activities of the study phase. Significant capacity building initiatives have been scheduled to provide OMVG with the staff and material resources required for implementation of the project. These capacity building initiatives are as follows:

- Establishment of a Project Management Unit (PMU): The PMU environmental team, in addition to the technical assistant responsible for the environmental unit, will include four country counterparts (an environmentalist, two resettlement experts and a monitoring and evaluation expert);
- Establishment of a National Monitoring Committee (CNS) in each member country. The CNS will include the key Ministries involved in project implementation in the country and national electricity companies. They will have a dedicated project team reporting directly to the head of the national unit;
- Establishment of Local Coordination and Monitoring Committees (LCMC) at local level. They will consist of the following staff: a facilitator and a part-time secretary, a communication officer and a full-time administrative/accounting officer.

Although the OMVG Council of Ministers decided to entrust the management to the Project Management Unit (PMU) located within this four-nation regional body, OMVG will work closely with the competent services of these four countries:

✓ IN GAMBIA: Gambia's institutional mechanism on expropriation is managed by the Ministry of Local Government and Lands. This body is supported by the Ministry of Natural Resources and the Environment, the Ministry of Agriculture and Local Government (Divisional Headquarters; District Headquarters, and Village Committees). Depending on the needs, other entities may be mobilized.

- ✓ IN GUINEA: Guinea's institutional mechanism on expropriation is under the responsibility of the Ministry of Urban Development and Housing. It is supported by the Ministry of Environment, Water and Forests, the Ministry of Agriculture and Livestock, and the Local Government (Rural Development Communities CRD). Other structures may be mobilized as required.
- ✓ IN GUINEA-BISSAU: Guinea Bissau's institutional arrangements on expropriation fall under the responsibility of the Ministry of Social Equipment. This Ministry is supported by the Ministry for the Interior, the Ministry of Environment, the Ministry of Agriculture, Forestry and Livestock, and the Ministry of Natural Resources and Energy (MNRE). Other State or non-State actors may be mobilized as required.
- ✓ SENEGAL: Senegal's institutional arrangements on expropriation fall under the Ministry of the Economy and Finance (MEF) responsible for Land Management and Enforcement of procedures for expropriation in the public interest (ECUP) and the terms and conditions for compensation under Law No. 76-67 of 2 July 1976. The Ministry is supported by the Ministry of the Environment and Nature Protection, the Ministry of Mines and Energy, and the Ministry of Territorial Development and Town Planning. Other entities may be mobilized as required.

All these stakeholders will need to be strengthen through training and logistical support.

#### IX. ELIGIBILITY

Persons affected by the Sambangalou plant and the interconnection line may be individuals, households or communities. Furthermore, among the affected persons, there are people considered vulnerable who need to be given special attention.

Given that the legislations of Guinea, Senegal, Gambia and Guinea-Bissau recognize formal ownership (with title deed) and customary ownership, any affected person who owns land (legally or customarily) is considered eligible for compensation.

The resettlement arrangements laid down by AfDB Operational Safeguard 2 (OS2) are taken into account by the project.

The deadline for compensation eligibility for the Sambangalou plant is at the end of the period of census of affected persons and their property in the study area conducted in August 2014 by the consultant. Beyond that date, the occupancy and/or use of land or resource affected by the project may no longer be subject to compensation. This date has been clearly indicated to the local population who, through traditional authorities, may help check opportunistic installations. After the census, the people were told that new investments would not be taken into account, but that they should, however, continue their activities until displacement.

Regarding the interconnection, the eligibility deadline will be at completion of the implementation study leading to the identification and census of affected persons on the route finally adopted, that is to say, June 2015.

# X. ASSESSMENT AND COMPENSATION FOR LOSSES

#### SAMBAGALOU HYDROELECTRIC PLANT

# ✓ COMPENSATION PRINCIPLES AND PROCESS

PAPs will be compensated in cash, in kind and/or in the form of assistance as shown in the table below. The payment of compensation will be managed by OMVG, which will harmonize the approach for the four member countries. Indeed, during the conduct of the environmental and social assessment, the member countries decided to standardize the procedure at regional level. This decision was formalized in a correspondence that the Ministers of the member countries addressed to OMVG.

The following table summarizes the proposed arrangements:

Impact	Eligibility	Right to Compensation or Resettlement
<b>Compensation for</b>	property and investment (land, stru-	
Loss of titled land	Be the holder of a valid and registered property title deed  Be the recognized occupant of arable and cultivated land (recognized by customary chiefs, notables and neighbours). Customary "owners" are considered to be occupying land in good faith, and are eligible for the measures described in the section opposite.	Resettlement on a similar plot, that is to say, having the same dimensions and operating potential and reimbursement of expenses related to the establishment of the land title deed. Or Compensation in cash for the plot at full replacement value, where material constraints do not allow for compensation in kind.  No monetary compensation for the plot.  Recognized occupants of arable and cultivated land are eligible for resettlement. They will be offered a resettlement option, comprising:  Replacement of the buildings found on such land, if applicable (see below);  Replacement of agricultural plots by equivalent land with agricultural potential located within an acceptable distance from the residence of the person concerned.
Loss of uncultivated land	- Village communities - Stockbreeders	Developments carried out on land are eligible for compensation at full replacement value (for example, clearing, irrigation canals, wells, dykes, tillage of soil, etc.), or replacement on a resettlement plot.  - Compensation at community level, see section on "Natural Resources and Bushes"  - Support to find new pastures and new transhumance corridors, support for the intensification of stockbreeding.
Loss of building	Case 1: Resident owner recognized as owner by neighbours.	Compensation for the building at full replacement value (market value if it is possible to reach a settlement for such a building, plus relocation allowances). OR Resettlement in a building of equivalent or superior characteristics, and surface, plus relocation allowances.
	Case 2: Non-resident owner recognized as owner by neighbours.	Compensation for the building at full replacement value (market value if it is possible to reach a settlement for such a building).
	Case 3: Tenant, recognized as tenant by neighbours.	Compensation for moving cost, including: (i) expenses incurred for renting a similar house (three-month rent deposit); and (ii) moving allowances.

Compensation for 1	Loss of Income Sources					
Loss of crops	Be recognized by neighbours and local authorities as having farmed	Perennial crops: Compensation at full replacement value of the crops in question (taking into consideration the value of the plants, the work				
	the crops	required to re-cultivate the crops, and the loss of income during the				
		period necessary to re-cultivate the crops at market value).				
		Annual crops: If the crops are destroyed before they can be harvested,				
		compensation will be paid for the equivalent of a rice crop or the				
		corresponding current value.				
		Trees that do not generate income, except through the sale of				
		firewood: compensation will be granted by providing seedlings and				
		paying for the planting work.				
Loss of business or	Be recognized by neighbours and	Compensation for loss of income incurred for a six-month period for				
handicraft activity	the authorities as the operator of the	handicraft, and three months for trading (periods deemed necessary				
	activity	to re-establish the activity on another site), plus support for				
		adaptation to new sites.				
Change in working	Mainly the case with fishermen and	Structural support (training, credit) during the training period and				
conditions	gatherers and, to a lesser extent,	repayment of credit contracted for these professionals to adapt to				
	stockbreeders	their new environment, plus compensation for loss of income over a				
		six-month period (the period considered necessary for their				
- ·		adaptation).				
Employment	Be an employee of a business	Temporary indemnities for the transition period corresponding to the				
disruption	affected by the relocation.	moving and reconstruction period.				
Natural resources	Anyone recognized as deriving	Funding of replacement projects for lost natural resources most				
and bushes lost	income directly from the lost	commonly used by the affected persons (medicinal plants and roots,				
D' 1 4 T 1	resource	etc.).				
Displacement Inde						
Relocation	Be resident and eligible for	Support for the cost of moving, preferably in kind (provision of a				
O41 E C A	resettlement.	vehicle to transport personal belongings).				
Other Forms of Ass Increased		Assistance Ford established at CEAE 150 000 manual analysis and				
	Vulnerable persons	Assistance Fund established at CFAF 150 000 per vulnerable person				
vulnerability		(guaranteed minimum agricultural wage over a period of five				
		months); the Fund will be used for micro-project development to help these people to maintain, if not improve, their living conditions				
		these people to maintain, it not improve, their fiving conditions				

#### ✓ ASSESSMENT AND COMPENSATION FOR GOODS AND INCOME

#### a) Collective Goods

Public goods for replacement will be fully rebuilt respecting existing dimensions and national sector-based policies. Existing social infrastructure will also be rehabilitated. The cost of replacing all existing collective goods in the localities to be displaced is estimated at CFAF 958 647 000 (EUR 1 463 583).

#### b) Loss of land

Loss of land (residential and agricultural land) incurred due to the impoundment of the reservoir will be compensated for, preferably in kind. PAPs consulted expressed their support for this approach, although the opportunity to receive compensation in cash will be considered if the situation so warrants (e.g. total change of activity or place of residence). There is no provision for financial compensation for title deeds held by PAPs nor for compensation for land on host sites because: (i) no title deed was recorded in the area; (ii) the host sites will most likely be located on State land, available at no cost. If it becomes necessary to expropriate PAPs with title deeds, the funds will be derived from the contingency funds of the project to offset the cost of establishing the title deeds. Funds are also provided for the development of host sites.

#### c) Land Preparation Costs in Rural Areas

Farmland offered in compensation has never been cultivated before. In fact, according to the analysis of satellite imagery and the land-use map, land located in peripheral areas that has been identified as potentially available land for compensation has never been developed. Accordingly, owners who will receive the said land in compensation will first make them suitable for cultivation. It is estimated that clearing, grubbing and levelling the land will require about 20 days of work per hectare received, representing CFAF 28 800 per ha at the minimum agricultural wage rate (CFAF 1 440 / hour). Moreover, the agricultural potential will be evaluated when selecting resettlement sites.

At the dam site, the plan is to give in compensation 804 hectares of farmland and pasture land located in peripheral areas. Assuming that all this land will be prepared for farming or grazing, the total land preparation cost will amount to CFAF 23 155 200.

# d) Loss and Replacement of Compounds, Buildings and Private Equipment

Built structures owned by individuals concern fences around compounds/*tapades*, and buildings and equipment found in inhabited compounds/*tapades* or which are on property outside these compounds/*tapades* that will also be flooded.

Although animal fences and enclosures identified in the 10 displaced villages consist primarily of wood or straw, the proposal is to offer PAPs the choice of replacement material. The calculation of the compensation budget was based on the price of iron wire mesh fences, which is the highest, so that this type of fence may be built around all compounds if the demand is widespread.

The replacement cost of all fences around compounds/tapades identified stands at CFAF 222 420 000.

Residential huts, mainly built of *banco*, (a mixture of mud and straw) will be replaced by houses made of durable materials (cement blocks, metal sheets and concrete floor). Compensation for buildings will be based on their actual dimensions, established during the census update. Moreover, all kitchens will be compensated for in durable building materials, while warehouses, entrance enclosures and barns will be compensated in *banco*.

Furthermore, in addition to compensating for identified buildings and fixed equipment, the plan is to provide an improved oven to each identified household and build an improved latrine and cemented bathroom in each compound/tapade, and even for those that are not currently equipped with such facilities.

The total cost of replacing fixed buildings and equipment owned by the identified households stands at CFAF 2 424 935 000.

#### e) Loss and Compensation for Trees

There is no organized plantation in the reservoir area. Fruit trees are generally isolated in compounds/tapades, village areas, fields or in natural formations, with little or no maintenance. As for trees used for gathering purposes, they are found throughout the area.

With regard to compensation, any fruit or "gathering" tree lost will be replaced with a young plant. As for lost production, fruit trees will be treated differently from "gathering" trees. Indeed, only the lost fruit trees will be compensated for since it is estimated that the natural resources surrounding reception areas will be able to provide the lost forest products upon resettlement.

Thus, initially, compensation for lost products is established by estimating the average market value of the production of a fruit tree based on the average production in the study area. Secondly, this value is applied over the period of time required for a new plant to become productive.

Overall, compensation for loss of trees is estimated at CFAF 106 497 000.

#### f) Loss of Income by Farmer Owners

Temporary reduction in the income of land-owning farmers may result from the loss of marketgarden or rain-fed crops following impoundment of the reservoir and from lower agricultural yields for the first year of harvest on the new land.

Compensation will be provided by crop type, depending on the average yield per crop and average prices in the reservoir area.

The total expected compensation for the loss of rain-fed and market garden crop production for a year in the reservoir area stands at CFAF 242 511 889.

Furthermore, the construction of the access road will lead to the loss of a total of 2.5 ha of land. The future land ownership report will help identify in detail the affected areas, existing crops and the owners and affected farmers. For budget requirements, an average amount of CFAF 301 000 per hectare (CFAF 242 511 889 for 804 ha) is earmarked for such compensation.

The total expected compensation for loss of agricultural land due to the construction of the access road will stand at CFAF 663 600.

Overall, the compensation for crop losses stands at CFAF 243 175 479.

#### g) Loss of Income by Persons Employed in Non-Agricultural Sectors:

Several types of incomes are considered under compensation for loss of income:

- Agricultural income that is likely to be lost for an entire year: Compensation is calculated on the basis of the average production recorded in the survey, irrespective of whether it is the main or secondary activity of the PAP;
- Income derived from an activity practised as main activity (excluding agriculture), which may be disrupted for a relatively long period due to changes made to the living milieu or environment: (i) For fishing, potential degradation of the aquatic environment; and (ii) for gathering and hunting, distance from operating environments;

- A lumpsum corresponding to one year of the average income calculated in the study area and adjusted for PAPs whose main activity is either fishing, hunting or gathering. This amount will be redistributed gradually every month as follows: CFAF 700 000 for fishing, CFAF 500 000 for forest product gathering, and CFAF 225 000 for hunting;
- Income from activity practised as main activity that will only be temporarily affected by displacement: stockbreeding, handicraft and trade. For stockbreeding and handicraft, the compensation proposed is calculated on the basis of average earnings observed over the area and corresponds to six months of income. For traders, the huge disparity between PAPs does not make it possible to propose an average compensation; the compensation paid will therefore correspond to three months' income based on the income declared by each trader.
- Income from secondary activities: A lumpsum is proposed for such activities, regardless of the type of secondary activity considered. The household in question will receive an amount equivalent to CFAF 190 000 for each secondary activity practised (average annual income of secondary activities in the study area, excluding agriculture-related income).

The total amount to be earmarked for compensation for loss of income, excluding agriculture, stands at CFAF 41 695 000.

#### INTERCONNECTION LINE

For reasons of consistency and harmonization in the expropriation process and to address issues of equity and equality between persons affected by the same project, the OMVG Council of Ministers decided that the same scale would be used in the four countries to determine the value of losses. An administrative document was issued to that effect.

The precise assessment of losses and compensation will be made based on a comprehensive census of PAPs. This census will include a population census, a land ownership survey, and a socio-economic survey. This initiative will eventually provide a picture of the situation of affected persons. The data collected will help to estimate with accuracy the expected losses of PAPs. Pending the census, a certain estimate of losses was conducted through analysis of aerial photographs of the transmission line. It should be noted that no construction is located in the optimized corridor.

- a) Land loss: Given the very sparse population of the study area and the limited size of the plots taken up by the pylons, it is quite likely that lost land will be compensated for in kind.
- b) Cost of land preparation in rural areas: It is possible that farmland offered as compensation may have never been cultivated previously. Thus, recipients of land compensation will first need to make it suitable for cultivation. It is estimated that clearing, grubbing and levelling of the land will require about 20 days of work per hectare received, representing CFAF 28 800/ ha at the minimum agricultural wage rate (CFAF 1 440/day).

- c) Loss of income by land-owning farmers: The construction works will probably result in loss of crops in the corridor of the interconnection line. In the months preceding the works, it is likely that construction will not respect cropping schedules and that could cause a loss of income when crops are lost. Since this type of loss is difficult to predict, it was decided, for budgetary purposes, that the entire surface within the right-of-way could be subject to a loss of income.
- d) Loss of income by non-landowning farmers within the right-of-way of the transmission line: To ensure that farmland not cultivated by the owner(s) remains accessible to farmers after expropriation, landowner(s) will be encouraged to sign a formal agreement with farmers prior to the expropriation designed to guarantee the famers' right of use under the same conditions. Despite this recommendation, some non-landowning farmers may lose access to part or all of the land they used to cultivate, following the expropriation. In this case, the project will help tenants find farmland.
- e) Loss of income by farmers within the right-of-way of sub-stations: Land permanently lost as a result of the construction of sub-stations will be subject to compensation in kind, but related crop losses will probably be subject to cash compensation.
- f) Compensation for houses: Buildings will be compensated for according to their actual dimensions that will be established during the census update.
- g) Compensation for loss of fruit trees: The calculation of the cost of compensation for fruit trees and forest trees is based on the average value of trees set at CFAF 35 000.

# SPECIAL SOCIAL MEASURES

#### Support Fund for Vulnerable Persons

To assist the vulnerable people identified in the census, who are generally highly impacted by changes and do not have the financial resources to adapt, it is recommended that an Assistance Fund be set up for them, to be managed by Local Coordination and Monitoring Committees (CLCS). This Fund would be an ultimate source of help for vulnerable people who find themselves in a precarious situation as a result of the implementation of the Energy Project. The funding level of the Assistance Fund was set at CFAF 150 000 per household considered vulnerable. Thus, the available amount would be sufficient to meet the basic needs of a household for a few months. Since 55 PAPs were identified as vulnerable, based on the census results, the Assistance Fund for vulnerable people amounts to CFAF 8 250 000.

# Compensation for increased sailing risks

Sailing conditions upstream of the dam will change following the creation of the reservoir, becoming more difficult mainly in the lake part of the reservoir. It will be risky to sail or fish with small canoes. To avoid accidents and enable affected persons to continue to travel and fish with their small canoes, it is recommended that compensation be provided for the addition to freeboards on these canoes. This compensation is intended for all canoe owners, regardless of whether or not they are displaced, or whether or not they practise fishing. It totals CFAF 900 000 (EUR 1 374) for all identified canoes needing to be modified.

# Cost of moving project-affected households

Moving expenses will be borne by the project. The cost of moving each household is estimated at CFAF 30 000. Thus, with 180 households to be moved, the required budget amounts to CFAF 5 400 000.

### Maintaining social cohesion

The objective of this programme is to maintain, as much as possible, intra-family, intracommunity and inter-community cohesion so as to cope with influences from the immigrant population.

During the initial consultation, the need to maintain cohesion within village communities and between communities was clearly expressed. This demand implies that current traditional authorities will not be challenged during the movement and the RP implementation.

The aim of the strategy for maintaining such cohesion is to: (i) reduce the risk of conflicts between the indigenous and non-indigenous populations; (ii) reduce risks of cultural shock between the lifestyles of immigrants and the local people as that could be detrimental to traditional authorities; and (iii) after project completion, facilitate the return to lifestyles and living conditions that are improved, but in better harmony with the socio-cultural context of the area.

It also aims to maintain solidarity systems within families and communities, as well as between communities, considering that these systems enable them to support people and groups that are disadvantaged or facing exceptional constraints.

This strategy does not preclude the initiation of targeted economic development activities to improve the status of women and young people in the society or the introduction of certain necessary changes (land security, for example).

Resettlement is designed to help maintain this cohesion, for example, by resettling displaced populations in the same region or maintaining diversity among communities, where it exists.

However, it seems necessary to ensure that the implementation of the RP and ESMP does not affect that cohesion (or that it affects it positively) and that the measures implemented are corrected if they adversely affect it.

This approach is an ongoing assessment of the effects of the RP and ESMP, the risks and impacts of the project on families, village communities and social groups (Fulani/Soussou, farmers/stockbreeders, farmers/non-farmers, indigenous people/ immigrants, etc.). Potential actions to be taken under this programme are:

- Definition of the specifications of the operator's mandate from the socioeconomic surveys and consultations with the people. Definition, if necessary, of the self-assessment methods of the process and socio-cultural changes.
- Regular monitoring intended to identify and assess the socio-cultural or marginalization risks faced by families and groups.
- Recommendation of possible corrections to the implementation of the ESMP and RP programmes. The corrections will be made using the regular budget.
- In agreement with the host community and in line with the RP and ESMP, targeted support to groups or families in difficulty by offering counselling, getting into contact with social institutions, and implementing micro-economic measures with special monitoring or targeting of regular ESMP and RP measures. Financial grants are not advisable.

# XI. IDENTIFICATION OF POSSIBLE RESETTLEMENT SITES, CHOICE OF SITE(S), SITE PREPARATION AND RESETTLEMENT

HOST SITE ALLOTMENT: The area deemed necessary for the construction of a village is estimated on the basis of 1 500 m² per person or, for an average household, 10 650 m² (1 065 ha), including the built-on area, compound/tapade, outbuildings and public space. This area allows for possible extensions. Farmland and areas reserved for community infrastructure should be added to this estimate. In this regard, it was estimated that a total area of 804 ha will be needed as farmland, to which should be added areas required for fallowing and replacement of community infrastructure, estimated at 7.61 ha. A total area of around 2 418 hectares will therefore be required for the development of host sites.

IDENTIFICATION AND SELECTION HOST SITES: Host areas were selected in a manner that maintains filial ties and ensures a safety margin in respect of the limits of the future reservoir (more than 210 m above the reservoir water level). The host areas were selected taking into account their proximity to existing villages and the fact that they are preferably uninhabited. Each resettlement area is located in a place identified on the land-use map as having potentially productive soils. During the consultation update, the people made alternative proposals to the initial ones. This information was collected and will be used during the third stage, which consists in verifying development possibilities on the ground. Several biophysical and technical aspects need to be analyzed to confirm the selection of a specific resettlement site. Other aspects considered in the choice of sites within the identified zones are: availability of drinking water, land-use potential of nearby areas, agricultural potential of soils of the resettlement area, distance from the most erosion-prone segments of the shoreline, and the developments required to protect the shoreline, availability of firewood and other valuable natural resources, presence of fragile wildlife habitats and measures to protect them, and accessibility and safety of the population. Line projects such as those of a power transmission line have specific characteristics.

Regarding the interconnection line, unlike projects such as dam development that occupy large swathes of land, their right-of-way is a narrow corridor. When expropriation is required, it is usually a strip within a property and not the entire property. Losses incurred by occupants of such lands are usually minor. When the physical displacement of a house or property is required, relocation is almost always within the very plot of the affected household. It is rarely necessary to develop a host site for those affected by a line project. If host sites are required, their identification and selection should be based on an iterative process entailing the active involvement of the affected population.

RESETTLEMENT MEASURES: Local Coordination and Monitoring Committees (CLCS) will be responsible for preparing, with outside experts if necessary, a development plan for each site, as well as defining the zones reserved for residential, commercial and other purposes. Depending on the size of the site, one or more habitable zones will be proposed for the future development of the site. Public infrastructure will be proposed on the basis of the compensation provided for public goods. Host site servicing includes the following:

- full replacement of all existing public goods property;
- sufficient number of classes to enable all children of school age to attend school;
- provision of health infrastructure for villages (displaced villages and surrounding villages), going over and above national standards, if necessary;

- drinking water infrastructure to meet all immediate needs on the basis of 20 litres per inhabitant and designed to meet future expansion needs;
- individual sanitation infrastructure in all private and public compounds;
- access roads; and
- where the resettlement sites are very close to host villages, common infrastructure may be provided.

Measures have also been proposed to minimize disruptions experienced by affected persons during and following involuntary displacement.

#### XII. HOUSING, INFRASTRUCTURE AND SOCIAL SERVICES

#### ✓ HOUSING

As part of the resettlement process, the houses lost by displaced persons will be compensated for with new houses as follows: residential houses and toilets will be replaced by new ones built by the project. Other buildings (barns, enclosures and huts) will be compensated for financially.

The displaced population will be consulted during the resettlement process so as to define the characteristics of the reconstructed buildings: desired materials, building type and spatial distribution. Based on the consultations held so far (Sambangalou and Néoudou villages), the principles adopted at this stage are as follows:

- Use of cement and iron sheets as building materials for residential houses;
- A single residential house per household, with a room for each woman and a room for the man;
- The Chief and the Imam will, in addition, have a separate building in their compound;
- Two common residential buildings for older children who have not yet founded a household, one for each sex; and
- Maintenance of a similar neighbourhood.
- ✓ SOCIAL INFRASTRUCTURE AND SERVICES: The social infrastructure and services to be provided under the project were determined taking account the infrastructure that existed prior to the displacement, the size of the villages, and the distance between resettlement sites. Groups were thus formed on the basis of pooled infrastructure.

#### XIII. ENVIRONMENTAL SAFEGUARDS

The development of host sites, displacement and resettlement activities will create pressure on the environment, which could adversely affect some of its components. The main impact of the RP implementation on the environment relate to construction and transport activities. Key among these impacts are soil compaction due to extensive movement of heavy vehicles, loss of natural vegetation and consequently of wildlife habitat, increased risk of soil and water contamination, and production of large quantities dry debris (e.g. from demolition of houses). Mitigating these impacts requires that contractors responsible for construction, displacement and/or demolition be compelled to use appropriate working techniques as defined in the mitigation measures proposed in the ESMP. The mitigation measures that should be included in RP implementation contracts involving field work and/or displacements are detailed in the ESMP.

#### XIV. IMPLEMENTATION SCHEDULE

#### SAMBANGALOU HYDROELECTRIC PLANT

The implementation schedules presented below are consistent with the implementation timeline of the Energy Project and that of the ESMP. They comprise the indemnification and compensation schedule, and the schedule for the implementation of resettlement and development measures. They span a 10-year period, with five relating to the pre-impoundment period and five to the post-impoundment period

Due to the constraints of the implementation timetable, the relocation of PAPs on the reservoir's right-of-way has been programmed to take place after works start-up. Indeed, there is no PAP on the right-of-way or within the vicinity of the reservoir's construction site. Consequently, the compensation and resettlement process is planned to take place just before the reservoir impoundment date. The resettlement process is therefore expected to be completed not more than six months prior to impoundment. On the other hand, the 106 PAPs located within the right-of-way of the access road and bridge to the worksite will be compensated and resettled prior to works start-up.

Compensations will paid according to the following timetable:

	Preparation and construction			MES Operation						
Schedule	2014	2015 (Start of works)	2016	2017	2018	2019	2020	2021	2022	2023
WORKS PROGRAMME										
Preparation and construction phase										
Impoundment of the reservoir										
Power generation										
					- !					
INDEMNIFICATION AND COMPENSATION MEASURES										
Census update										
Inventory of land and its uses					į į					
Census update (population, property and assets)										
Construction and development of host sites					+					
Detailed design and CBDs for host sites and roads					İ					
Village planning (development plan)					į					
Roadinfiastructure										
Housing					ŀ					
Health infrastructure and services					į					
School infrastructure and services					i					
Cultural infrastructure and services					l l					
DWS Infrastructureand services					- !					
Transfer of persons and property										
Phased relocation					- !					
Settlement of benefits					<del>                                     </del>					
Compensation of PAPs for losses										
Operation support					<del>                                     </del>					
Support for the operation of the services set up			ı							

The resettlement of PAPs will be conducted as indicated below:

	Preparation and construction				MESO Operation					
Schedule	2014	2015 (Start of works)	2016	2017	2018	2019	2020	2021	2022	2023
WORKS PROGRAMME		(								
Preparation and construction phase										
Reservoir impoundment										
Power generation										
					ŀ					
RESETTLEMENT AND DEVELOPMENT MEASURES					i					
					1					
Local development planning				•••	• • • •	• • •	• • • •	• • • •	• • •	
Strengthening of rural communities and Rur. Dev Committees (RDCs)										
Development and land-use plans										
Agro-sylvo-pastoral planning					<del>                                     </del>					
Mapping of degraded areas					i					
Phased development										
Improvement of family agriculture					<del>  i</del>					
Support in the form of improved seeds										
Support to seed farmers										
Market gardening support					<u> </u>				0 0 0 0	• • •
Training extension										
Improvement of family stockbreeding						+				
Baseline, programming										
Training, extension										
Improvement of small scale fishing										
Clearing of drawdown zone										
Management plan										
Investment assistance										
Training, technical support					_					
Scientific monitoring										
Dev. Handicraft activities, reconversion support										
Baseline										
Study an recenversion projects										
Micro-project support										

#### INTERCONNECTION LINE

The interconnection line construction programme envisages the finalization of all the interconnection networks in 2016. The construction is scheduled to start from May/June 2015 and the works are estimated to last 18 months.

Regarding the RP implementation timeline, the census of PAPs will be based on the programme for the conduct of implementation studies. The final route will be determined only during the validation, by the Consulting Engineer, of these studies which will help to determine the precise positioning of the line's 40-metre right-of-way within the two km-wide corridor adopted at the preliminary design phase. Arrangements will be made at this stage to minimize the impact on private and public goods. Therefore, the assessment of losses will not be finalized until after optimization of the route. The stages of the resettlement process have been scheduled as follows:

- Mobilization of the financial contribution of States: March 2015;
- Mobilization of stakeholders identified during census and compensation of PAPs (operator, NGO, Consulting Engineer): May 2015;
- Start of implementation studies: June 2015;
- Start of population census: June 2015; and
- Start of payment of indemnification and compensation: July 2015.

Monitoring will cover the two-year construction period and continue for at least three years after the commissioning of the line.

#### XV. COSTS AND BUDGET

# SAMBANGALOU HYDROELECTRIC DEVELOPMENT

The overall budget for implementation of the Resettlement Plan amounts to EUR 12 359 868 over a 10-year period. This amount includes indemnification and compensation of EUR 7 118 351, and costs associated with resettlement and development measures amounting to EUR 5 241 517. However, a reserve of EUR 790 047 has been included in the budget to hedge affected persons' compensation against inflation. The 5% contingency fund applies only to non-compensation RP expenses. The tables below present the budget for the indemnification and compensation, as well as for resettlement and development measures.

# Cost of Indemnification and Compensation Measures

	(EU	J <b>R</b> )	Breakdown by State				
INDEMNIFICATION AND COMPENSATION MEASURES			Gambia	Guinea	Guinea-B.	Senegal	
Land inventory and uses	29 349						
Studies, supervision	29 349	1 936	240	207	271	020	
•			348	387	271	929	
Demarcation of areas to be expropriated		8 823	1 588	1 765	1 235	4 235	
Surveys, investigation, and feedback	4 = 4 <	18 591	3 346	3 718	2 603	8 924	
Census update (property and assets	4 726						
Studies, supervision		1 530	275	306	214	735	
Surveys, investigation, and feedback		3 196	575	639	447	1 534	
<b>Settlement of indemnities</b>							
Compensation for agricultural activities	406 019						
Land preparation		35 300	6 354	7 060	4 942	16 944	
Compensation for loss of agricultural income (landowners)		370 719	66 729	74 144	51 901	177 945	
Compensation for non-agricultural activities	235 522						
Compensation for loss of fishing income		10 854	1 954	2 171	1 520	5 210	
Replacement of trees and products		162 354	29 224	32 471	22 730	77 930	
Compensation for loss of access to natural resources		8 232	1 482	1 646	1 153	3 951	
Compensation for loss of income (excluding agriculture and fishing)		52 709	9 488	10 542	7 379	25 300	
Compensation for risks of navigating on the reservoir		1 372	247	274	192	659	
Compensation for vulnerable persons	12 577						
Emergency relief fund for vulnerable persons		12 577	2 264	2 515	1 761	6 037	
Intervention costs (for indemnities)	27 008	27 008	4 861	5 402	3 781	12 964	
Village planning							
Services	67 521	67 521	12 154	13 504	9 453	32 410	
Reconstruction of houses and fences	4 058 374						
Replacement of buildings and equipment in compounds		3 696 790	665 422	739 358	517 551	1 774 459	
Replacement of fences of compounds/ tapades		339 077	61 034	67 815	47 471	162 757	
Physical contingencies		22 507	4 051	4 501	3 151	10 803	
<b>Education infrastructure and services</b>	223 108						
Services		6 302	1 134	1 260	882	3 025	
Construction		194 930	35 087	38 986	27 290	93 566	
Equipment and supplies		10 623	1 912	2 125	1 487	5 099	
Operating costs		6 752	1 215	1 350	945	3 241	
Provision for maintenance		4 501	810	900	630	2 161	
Health infrastructure and services	121 107	. 201	010	700	0.50	2 101	
Services		3 421	616	684	479	1 642	
Construction, equipment		109 313	19 676	21 863	15 304	52 470	
Operating costs		8 373					
Socio-cultural infrastructure and		0313	1 507	1 675	1 172	4 019	
services and services	353 214						
Construction and equipment		347 272	62 509	69 454	48 618	166 690	
Support for sport and cultural activities		5 942	1 070	1 188	832	2 852	

DWS and sanitation infrastructures and services	142 247					
Technical studies and support		6 302	1 134	1 260	882	3 025
Construction of 7 boreholes and one public latrine (as compensation)		132 794	23 903	26 559	18 591	63 741
Provision for maintenance		3 151	567	630	441	1 512
Road infrastructure	572 575					
Technical studies and support		13 504	2 431	2 701	1 891	6 482
Construction of rural roads		549 618	98 931	109 924	76 947	263 817
Provision for maintenance		9 453	1 702	1 891	1 323	4 537
River-crossing infrastructure	54 804					
Construction and equipment		45 802	8 244	9 160	6 412	21 985
Operation and maintenance		9 003	1 620	1 801	1 260	4 321
Transfer of persons and property	8 232					
Expenses for moving affected households and their property		8 232	1 482	1 646	1 153	3 951
Provision for inflation on compensation						
Average inflation of 2.4% per year (for compensation)	790 047	790 047	142 208	158 009	110 607	379 222
5% Contingencies (excl. compensation)	11 922	11 922	2 146	2 384	1 669	5 723
TOTAL – INDEMNIFICATION AND COMPENSATION MEASURES	7 118 351	7 118 351	1 281 303	1 423 670	996 569	3 416 809

• Cost of Resettlement and Development Measures

, and the second	(EU	UR)	Breakdown by State					
RESETTLEMENT AND DEVELOPMENT MEASURES			Gambia	Guinea	Guinea- B.	Senegal		
Planning and local development	564 107							
Engineering and consultancy (land use and development plans)		55 849	10 053	11 170	7 819	26 807		
Strengthening of CR and Rur. Dev. Com								
Investment		160 652	28 917	32 130	22 491	77 113		
Operating costs		347 607	62 569	69 521	48 665	166 851		
Agro-sylvo-pastoral development	1 738 033							
Studies and assessment		231 738	41 713	46 348	32 443	111 234		
Development		1 158 688	208 564	231 738	162 216	556 170		
Reforestation		347 607	62 569	69 521	48 665	166 851		
Improvement of family agriculture	677 833							
Studies		11 587	2 086	2 317	1 622	5 562		
Appropriations and developments		49 244	8 864	9 849	6 894	23 637		
Training		110 075	19 814	22 015	15 411	52 836		
Operator contract		506 926	91 247	101 385	70 970	243 325		
Perennial crops and plantations	89 798							
Appropriations and developments		17 380	3 128	3 476	2 433	8 343		
Training, support		5 793	1 043	1 159	811	2 781		
Village fire management committees		66 625	11 992	13 325	9 327	31 980		
Action research	291 352							
Studies, reports		28 388	5 110	5 678	3 974	13 626		
Field performance		61 642	11 096	12 328	8 630	29 588		
Investments		130 352	23 463	26 070	18 249	62 569		
Training and demonstrations		33 457	6 022	6 691	4 684	16 059		
Operator's management expenses		37 513	6 752	7 503	5 252	18 006		

Improvement of family livestock production	46 348					
Studies and technical support		11 587	2 086	2 317	1 622	5 562
Appropriations and developments		34 761	6 257	6 952	4 866	16 685
Generation of agriculture-related incomes	88 640					
Studies and technical support		31 285	5 631	6 257	4 380	15 017
Appropriations and developments		57 355	10 324	11 471	8 030	27 530
Improvement of fishing as a side activity	100 516					
Studies and technical support		17 960	3 233	3 592	2 514	8 621
Endowments and developments		16 511	2 972	3 302	2 312	7 925
Surveys and et scientific performance		66 045	11 888	13 209	9 246	31 702
Development of craftsmen, reconversion	142 866					
Technical studies and support		19 292	3 473	3 858	2 701	9 260
Training		72 302	13 014	14 460	10 122	34 705
Staffing		51 272	9 229	10 254	7 178	24 611
Human capacity building	48 086	48 086	8 655	9 617	6 732	23 081
Strengthening of rural services	172 529					
Input supply		33 138	5 965	6 628	4 639	15 906
Marketing		7 531	1 356	1 506	1 054	3 615
Micro-finance		131 859	23 735	26 372	18 460	63 292
Maintenance of social harmony	188 866					
Studies and support		128 035	23 046	25 607	17 925	61 457
Special intervention fund		60 831	10 950	12 166	8 516	29 199
Land security	220 151					
Studies		23 174	4 171	4 635	3 244	11 123
Implementation		196 977	35 456	39 395	27 577	94 549
Operators of resettlement measures	622 795					
Services		370 780	66 740	74 156	51 909	177 975
Investment		89 798	16 164	17 960	12 572	43 103
Operating costs		162 216	29 199	32 443	22 710	77 864
5% Contingencies	249 597	249 597	44 927	49 919	34 944	119 807
TOTAL – RESETTLEMENT AND DEVELOPMENT MEASURES	5 241 517	5 241 517	943 473	1 048 303	733 812	2 515 928

#### INTERCONNECTION LINE

The budget was prepared on the basis of: (i) Compensation for annual and perennial crops: The consultant used updated rates; (ii) Specific actions for displaced persons and their host areas: cost of actions directly affecting the impacted persons; (iii) Project management: The costs are estimated on the basis of the prices usually charged. Compensation and indemnification for persons affected by the construction of sub-stations and the interconnection line are separate. The budget for this interconnection component is merely a rough estimate, since the route of the interconnection line is not specified, which causes uncertainties concerning property losses and the number of project-affected persons (PAPs). Nevertheless, with the available field data, the budget for this component is estimated at CFAF 1 487 105 956, rounded up to CFAF 1,488,000,000 or EUR 2 267 000. The financing is entirely borne by OMVG Member States. The price details are shown in the table below, expressed in rounded values.

No.	ITEM	CFAF	EUR
A	INDIVIDUAL INDEMNITIES AND COMPENSATION FOR IT THE INTERCONNECTION LINE	EMS IN CONNEC	CTION WITH
A1	Compensation for fruit trees	90 000 000	136 000
A2	Compensation corresponding to a year's food crop production	552 000 000	841 000
A3	Crop replanting expenses	300 000	455
	Sub-Total for the Line	642 300 000	977 455
В	INDIVIDUAL INDEMNITIES AND COMPENSATION FOR ITE	EMS	
B1	Compensation for fruit trees	140 215 000	214 000
B2	Compensation corresponding to a year's food crop production	2 730 000	4 160
В3	Houses	12 000 000	19 000
B4	Title deeds	100 000 000	152 000
	Sub-Total for Items	257 945 000	388 660
	TOTAL INDEMNISATION AND COMPENSATION	900 000 000	1 371 000
F	PROJECT OWNER		
F1	Assistance to vulnerable persons and conflict management mechanism (NGOs, travel expenses, complaint centres, etc.)	20 000 000	30 490
F2	Cost of Project Management Unit for 3 years	200 000 000 (50 million times 4)	304 898
F3	Facilitation of administration staff, elected officials and the chiefdom	60 000 000 (15 million times 4)	91 469
F4	Monitoring of work sites, legal advice	20 000 000	30 490
F5	Monitoring and evaluation	40 000 000	60 980
	Sub-Total Management	340 000 000	518 327
	TOTAL (from A to F)	1 240 000 000	1 889 000
	MISCELLANEOUS AND CONTINGENCIES 20%	247 851 000	378 000
	GRAND TOTAL	1 488 000 000	2 267 000

#### XVI. MONITORING AND EVALUATION

Monitoring and evaluation arrangements seek to ensure, first, that the proposed actions are implemented as planned and within the established timeframe and, secondly, that the expected results are achieved. When weaknesses or difficulties are observed, monitoring and evaluation help to trigger appropriate corrective action.

The proposed monitoring and evaluation (M&E) measures are consistent with the general M&E framework defined in the Sambangalou ESMP. The ESMP will define, in particular, monitoring measures specifically concerning construction activities. It is also under the ESMP that the resources required for the M&E mission will be determined. Specific measures are proposed in this RP, key among which are the following:

- Monitoring of population demographics;
- Monitoring of the development of host sites and their intake capacity;
- Monitoring of the implementation of compensation or indemnification measures;

- Monitoring of developments in the living conditions of PAPs;
- Monitoring of specific compensation for women;
- Monitoring of the provision of technical and material support to local authorities;
- Monitoring of the trend of activities and income level;
- Monitoring of the intake capacity of resettlement sites; and
- Monitoring of compensation and indemnification for loss of infrastructure and social services.

#### XVII. REFERENCES AND CONTACTS

#### References

- ESIA report of the OMVG Power Project
- Report of the Environmental and Social Management Plan
- Report of the Comprehensive Resettlement Plan

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