Project title : IVOMASSE - Detailed technical studies for the construction of decentralized production plants using renewable energies in Côte d'Ivoire, in particular biomass plants

Project place	Project cost	Role in the project	Technical and financial sponsors	Dates
Côte d'Ivoire	146 000 €	Biomass and value chain expertise	IED - Innovation Energie Développement, Le Ministère du Pétrole, de l'Energie et des Energies Renouvelables - MPEER, Côte d'Ivoire Energies	August 2020 - August 2023

Project's goals and results

Main goals

Identify and quantify biomass deposits in Côte d'Ivoire by collecting all the information available from institutions, professional bodies, as well as from technical and financial partners, NGOs and relevant international organizations on national production of agricultural materials . Evaluate the impacts related to climate change, and to market variations on the availability of these deposits.

Specific objectives

OS1. Definition of the potential of renewable energies
OS2. Identification of biomass and transport resources in biomass feasibility studies
OS3. Participation in the validation process of zones/sites and pre-feasibility
OS4. Identification of power plant installation sites
OS5. Training of counterparts in resource identification
OS6. Support for DGE and CI ENERGIE during consultation with operators

Beneficiaries

Results

R1. The deposits of biomass resources are identified
R2. The sites of the power plants are identified and the selection criteria are proposed
R3. Each site selected (5) is subject to a pre-feasibility and summary feasibility study, including the environmental and social impact study, the economic and financial analysis and the technical elements allowing constitute the technical part of a tender dossier for the selection of IPP
R4. The Focal Point for the project benefits from technical and methodological support during the consultation phase of the project promoters and possible negotiations, for each of the projects on the selected sites (5)
R5. The counterparts master the methodologies and know-how of implementation

Activities

A1. Assessment of local biomass deposits, identification of owners and qualification of infrastructure in terms of state of conservation and passage capacity (size- vehicle tonnage)
A2. Identification and description of probable sites (target of 15 sites) for the installation of power plants
A3. Plots of supply chains and analysis of biomass transport costs and conditions inventory of transport infrastructure between the biomass deposit and the electricity production site
A4. Assessment of major environmental impacts and identification of land likely to accommodate a power plant and orientation proposals to mitigate negative social and environmental impacts
A5. Evaluation of the calorific potential of the identified potential biomasses
A6. Validation of zones / sites and pre-feasibility by analyzing technical and economic information concerning biomass resources and their sustainability, major environmental and social impacts, as well as land availability
A7. Training of counterparts (DGE and CI ENERGIE executives) for the transfer of methodologies and know-how implemented, in particular by associating the counterparts in activities in the field