Project title : CARBURIB - Study on the availability of non-edible waste from plant and animal feedstocks for biofuel production

Project place	Project cost	Role in the project	Technical and financial sponsors	Dates
Côte d'Ivoire	24 041 €	Consultant	SIR - Ivorian Refining Company	August 2024 - December 2024

Project's goals and results

Main goals

The Republic of Côte d'Ivoire has committed to a transition towards renewable energy, including integrating biofuels into its liquid fuels pool, in line with regional and international climate commitments. In this frame, the national refinery SIR aims to identify and characterize the available biomass resources in the country and assess their potential for the sustainable production of biofuels (bioethanol, biodiesel/bio-oils, and SAF – Sustainable Aviation Fuel).

Specific objectives

OS1. Identify and characterize biomass deposits available in Côte d'Ivoire, while assessing the resource's eligibility for international sustainability standards
OS2. Assess the feasibility of harnessing them for the production of sustainable biofuels
OS3. Identify and characterize stakeholders who own or produce biomass or even biofuels

Beneficiaries

Ivorian Refining Company (SIR), Ministry in charge of Energy, Oil and Mines of Côte d'Ivoire

Results

R1. Identification of potential biomass sources for biofuels, value chain analysis, and quantification of available and accessible sources
R2. Note on technologies for converting biomass into crude oil for biorefinery
R3. Development of a directory of potential suppliers by biomass type
R4. Feasibility report including strategic recommendations for the SIR

Activities

A1. Identifying with the Client the agricultural sectors generating convertible waste: general list of biomass feedstocks
A2. Estimating the volumes of biomass feedstocks for liquid biofuel – bibliography, meetings, fieldwork, and data analysis
A3. State-of-the-art biofuel conversion techniques: Technology Readiness Level and recommendations for Côte d'Ivoire
A4. Characterizing spatio-temporal availability of biomass feedstocks
A5. Description of the sector's stakeholders and market dynamics regarding the selected feedstocks to be assessed