

## Project title : VABICHAR – Market study at international and national scopes for biochar

| Project place | Project cost | Role in the project | Technical and financial sponsors        | Dates                    |
|---------------|--------------|---------------------|---|--------------------------|
| Côte d'Ivoire | 80 500 €     | Consultant          | BDA-ENABEL - Belgian Development Agency | January 2025 - July 2025 |

### Project's goals and results

#### Main goals

The market study on biochar at the international and national scope, requested by ENABEL in Côte d'Ivoire, is part of the [implementation of the VABICUI project](#), which aims at strengthening organic waste valorization and clean cooking sectors. The action contributes to the reduction efforts of greenhouse gas (GHG) emissions in the country. There are diverse possibilities to recycle and valorize by-products and waste from agricultural, industrial and even urban sectors. Among these, biochar appears as one appropriate solution, today raising greater interest mainly due to the apparent consolidation of climate finance.

#### Specific objectives

- SO1.** Assess and characterize biochar production and consumption worldwide
- SO2.** Assess the multiple contexts and regulatory developments affecting biochar markets (physical markets and carbon markets)
- SO3.** Benchmark the different related technologies and recent innovations of the biochar value chain, with a focus on the implications in terms of biochar quality
- SO4.** Present the specificities of the biochar market in Côte d'Ivoire
- SO5.** Formulate recommendations to drive the support of VABICUI to the Ivorian biochar sector

#### Beneficiaries

BDA-ENABEL - Belgian Development Agency, Stakeholders in the Biomass sector in Côte d'Ivoire

#### Results

- R1.** A literature review highlights the different steps in the biochar value chain, including the economic and environmental challenges associated to its production and use
- R2.** A global biochar value chain analysis highlights the global dynamics, the international market trends and the perspectives for innovation
- R3.** An analysis of national biochar value chain in Côte d'Ivoire identifies the local potentialities, the challenges and the levers for development of the sector in the Ivorian context

#### Activities

- A1.** Kick-off and introduction
- A2.** Review of the biochar production practices
- A3.** International biochar market study (supply & demand)
- A4.** Assessment of the climate finance tools applied to biochar
- A5.** Field mission in Côte d'Ivoire
- A6.** Production of deliverables