Path Being. Corp

Zambia

Biochar Production and Soil Amendment Sales Pilot Using Agro-Processing Residues, and CDR Credit Registration Readiness

Project Details

- In Zambia, we launched an end-to-end biochar operation with our local partner from feedstock sourcing to field application.
- We installed a small-scale pyrolysis unit, started commissioning and small-batch production, and selected corn cobs and baobab residues as pilot feedstocks based on availability and equipment fit.
- We selected four pilot farms and conducted baseline soil analysis with plot design including control areas.
- We combined biochar characterization and soil results to create farm-specific application guidance (pre-treatment, blending, and application method), and applied biochar in Nov–Dec 2025.
- For CDR readiness, we prepared a PDD draft and completed an initial eligibility / pre-assessment, and conducted D&D with a dMRV provider.

Project Outcome

- We operationalized the full workflow—feedstock → carbonization → QC → application → MRV logging—and clarified commercialization requirements (safety, maintenance, logging, and pre-treatment).
- Based on observed biochar properties (e.g., high pH / high EC tendencies), we defined a safer application approach including washing, blending with compost/manure, and split application.
- Through the pre-assessment, we clarified what is required to proceed to full certification: LCA + third-party assurance, WBC (or equivalent) quality certification, V&V, and audit-ready MRV.
- We identified the next-phase commercial pyrolysis system (carbonization capacity: ~5–7 t/day) and outlined CAPEX/OPEX, unit economics, and remaining credit/MRV workstreams and costs; negotiations on investment, roles, and contract terms have started with the local partner.

Future Business Development

- Targeting late 2026, we will deploy a ~5–7 t/day commercial unit and move to stable production with defined uptime, quality control, and maintainability.
- We will scale the feedstock supply chain (collection and pre-processing) and standardize production logs, commercializing biochar as an “application package” (guidelines + blending inputs where needed) aligned with soil analysis.
- We will execute the pathway to CDR issuance in stages: LCA (with assurance), WBC/equivalent certification, audit-ready MRV operations, and proceed to full registration, issuance, and sales.
- In parallel, we will secure funding for equipment and certification-related costs and finalize MoU/contract terms with the local partner to define responsibilities and revenue sharing for long-term operations.