

Ibadan Agroforestry Reserve – Oil Palm Backbone

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Summary
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Description

Location: Egbeda LGA, Ibadan, Oyo State, Nigeria
Land Size: 22.22 Acres
Land Ownership: Owned by a Verconix Co-Founder
Land Documentation: Available upon request (Title Deed, Coordinates, Owner Consent)

Strategic Tree-Planting Plan:
Current Oil Palm: ~1,200 oil palm trees (estimated at 65–70 trees per acre)
Planned Additions (Intercrop Afforestation):
 • *Simelima indica* 1,500 trees
 • *Acacia auriculiformis* 1,200 trees
 • *Khaya senegalensis* (African Mahogany) 800 trees

If these species are selected for compatibility with oil palm systems, long-term carbon absorption, and timber value.

Tree Species	No. of Trees Est.	Annual Carbon Yield (tCO ₂)
Oil Palm	1,500	-225 tCO ₂ /year
Gmelina arborea	1,500	-225 tCO ₂ /year
Acacia auriculiformis	1,300	-180 tCO ₂ /year
Khaya senegalensis	800	-120 tCO ₂ /year
Total	5,000	-750 tCO₂/year

Oil palm sequestration increases with age replanting will ensure long-term productivity

• **Strategic Tree-Planting Plan**
 • **Total Trees to Be Planted:** ~7,200
 (Based on spacing of 3m x 3m, approx. 200 trees per acre x 34 acres)
 • **Species Breakdown:**
 • *Grevillea arborea*: 3,600 trees
 • *Tectona grandis* (Teak): 2,400 trees
 • *Terminalia superba*: 1,200 trees
 • These species are selected for their high carbon sequestration capacity and resilience in tropical conditions.

Agroforestry Integration
Crops: Cassava, Cowpea, Banana, Watermelon
Harvest Cycles: 2-12 months
Benefits: Weed suppression, revenue diversification, local food security

Pillar	Description
Health	Mixed vegetation enhances biodiversity and reduces rural heat island effect
Education	5% of proceeds fund agri-learn program for local schools
Vocational Skills	Training youth and women in sustainable palm-agroforestry practices

Verification & Status
Standard Targeted: VEFRA VCS & Gold Standard (TRC)
Baseline Mapping: Underway
MRV Tools: Drone & IoT soil monitoring (pilot)
Documentation: Available on request

Total Required Investment: N16,000,000 (–\$10,700)
Covers: Agroforestry maintenance, intercropping seedlings, irrigation, labour, and MPV tools

Planned Acreage: 1,500 oil palm trees (estimated at 65–70 trees per acre)
 - *Gmelina arborea*, 1,500 trees
 - *Acacia auriculiformis*, 1,200 trees
 - *Khaya senegalensis* (African Mahoe) 900 trees

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