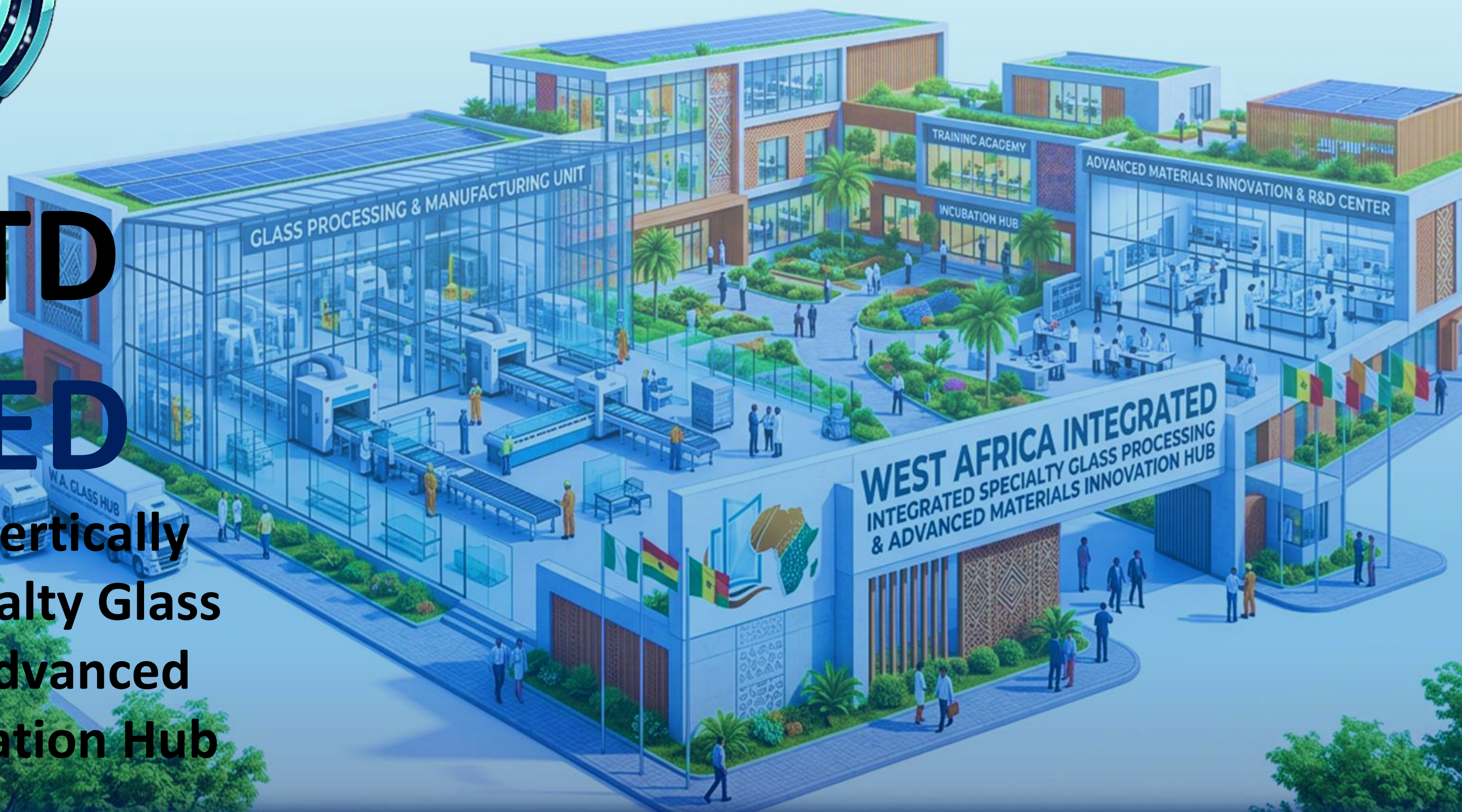
RFACTD LIMITED

West Africa's Vertically Integrated Specialty Glass Processing & Advanced Materials Innovation Hub



Nigeria's Glass Import Crisis

Unassailable Market Opportunity

Nigeria currently relies entirely on heavy foreign imports for architectural facades, security laminates, and customizable containers. RFACTD captures this systemic leakage by delivering local industrial processing with immediate turnaround cycles, cutting out international supply vulnerabilities entirely.

₦1.2T

Imports Flowing Out of Nigeria

The Dual-Engine Capital Strategy :

01

Engine 1: Industrial Cash Flow

Immediate build-out of commercial downstream glass fabrication lines (tempering, multi-layer laminating, insulated glazing unit production). Targets quick market monetization and robust operational cash flows utilizing premium base float sheet sheets.

02

Engine 2: Deep Materials IP

A dedicated advanced material science center designed to develop long-term intellectual property. Focusing on smart electrochromic glass layers, building-integrated photovoltaics (BIPV), and high-technology transparent conductors for sovereign licensing profiles.

Nigeria's Glass Import Crisis

Environmental Coupling: Sourcing Redefined

Our high-grade silica sand extraction model is coupled directly with systematic water channel dredging across key Niger Delta river networks in Bayelsa State. This unique structural posture handles multiple critical parameters simultaneously:

- **Regional Flood Mitigation: Maximizing water-way volume while protecting local civic layouts.**
- **Drastically Standardized Production Feedstock: Continuous supply of sand directly processing through water-way channels.**
- **Unlocking Concessional Capital: Positioned perfectly to anchor global climate bonds, institutional ESG capital, and sovereign pioneer exemptions.**

Optimized High-Margin Product Allocation Matrix

Tempered Architectural Glass

35% Volume Share

High-rise structural frameworks, premium glass envelopes, and advanced construction applications.

Laminated Security Systems

20% Volume Share

Custom tactical glass, structural protection systems, and institutional layouts for premium security profiles.

Insulated Glazing Modules

15% Volume Share

Energy-efficient double and triple-glazed modules optimized for medical, commercial, and green building standardizations.

Specialty & Consumer Glass Lines

30% Volume Share

Custom-engineered marine glass structures, design-driven mirrors, and specialty retail storage applications.

Phased Long-Term Development Roadmap

Phase 1

Downstream Fabrication

Establishing specialty lines, processing hub, and local sand testing frameworks.

Phase 2

Energy Microgrid Sovereignty

Integrating 5-15 MW captive flare-gas generation systems to run continuous small furnaces.

Phase 3

IP Layer Expansion

Commercialization of smart electrochromic and vacuum sputtered functional coatings across West Africa.

Phase 4

Deep Tech Integration

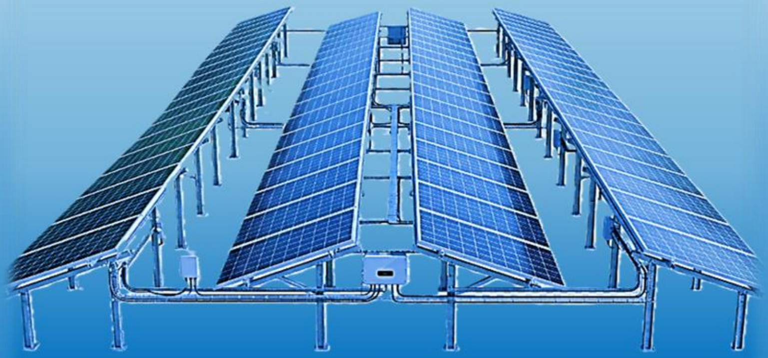
Cleanroom micro-electronics deposition on glass substrates for transparent circuit layouts

Phase 5

Continental Float Supremacy

Building multi-line full integrated heavy float glass furnaces supplying primary sheets across Africa.

Energy Sovereignty: Bypassing Grid Dependency



Decoupled Captive Industrial Microgrid Architecture

Transform logistics and supply chain Unstable electrical grids are an absolute bottleneck for continuous furnace operations. RFACTD completely bypasses macro-grid vulnerabilities through an aggressive, island-mode industrial energy architecture:

✓ Phase 1 Foundation: 5-8 MW Solar PV array coupled with standard industrial generator units to handle downstream tempering lines safely.

✓ Phase 2 Conversion: Deployment of a 5-15 MW captive natural gas power station leveraging nearby localized oil and gas flare capture structures.

✓ Cost Scaling Factor: Transitioning directly to localized flare gas gathering drops power costs by up to 60% compared to typical diesel benchmarks.

10-Year Macro Financial Trajectory

Target Metrics

- Blended Equity IRR: 18% - 26%
- Estimated Payback: 5 - 7 Years
- Year 10 Enterprise Value: ₦96B - ₦144B

Timeline	Revenue Projection	EBITDA Forecast	Net Profit Target
Year 1	₦3.8 Billion	₦620 Million	₦310 Million
Year 3	₦7.8 Billion	₦1.9 Billion	₦1.1 Billion
Year 5	₦13.5 Billion	₦3.78 Billion	₦2.2 Billion
Year 10	₦40.0 Billion	₦12.0 Billion	₦7.2 Billion

Market Dominance & Cross-Border Expansion

Strategic Continental Geographic Positioning

RFACTD leverages its strategic coastal and river-access point layout in Bayelsa State to establish immediate cross-border maritime shipping channels across the ECOWAS sub-region, capturing decentralized international demand patterns:

- Nigerian Domestic Base (70% Allocation Base): Securing anchor market distribution channels across regional industrial hubs.
- Primary Export Target Corridors (15% Allocation Base): Establishing optimized maritime logistics lines into Ghana, Senegal, and Côte d'Ivoire.
- Broader ECOWAS Contingent (15% Allocation Base): Capitalizing on duty-free African Continental Free Trade Area (AfCFTA) frameworks.

Phase 1 Capital Requirements & Allocation Breakdowns

Strategic Allocation Category	Budget Range (Naira)	Target Operational Outcome
Processing Hub Build-out	₦5.5B - ₦7.0 Billion	Procurement of specialized tempering, cutting, laminating autoclaves & Minor lines.
Industrial Energy Systems	₦4.0B - ₦7.0 Billion	First stage modular 5-8MW Solar PV coupled with industrial setups.
Working Capital Reserve	₦3.0B - ₦5.0 Billion	Raw batch inventions runway and high-liquidity foreign exchange (FX) risk mitigations.
R&D Innovation Lab Foundation	₦1.0B - ₦2.0 Billion	Securing technical technology-transfer joint ventures and initial sand melt calibration

Total Consolidated Phase 1 Funding Target Range: ₦19.5 Billion – ₦35.0 Billion

"RFACTD is the trojan horse into Africa's next industrial civilization. Glass is the entry point; advanced materials are the ultimate destination.“

Okubozi Tekearede Bozimor

Chief Executive Officer & Chief Research Officer, RFACTD Limited

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