CONFERENCE COMPANY PROFILE

Africa’s critical materials opportunity

Recovering value from electronics through responsible partnerships in Ghana



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ABOUT ERG

A Ghanaian operating partner for circular electronics

Our work

Collection, repair, refurbishment, dismantling and material recovery.

Our local role

Connecting collectors and processing teams with domestic users and downstream buyers.

Our next step: stronger recovery systems and qualified downstream routes for valuable and critical materials.



- **ERG facility: 6,000 m² total site area**
- **Indoor facility: 2,800 m²**

REUSE AND WIDER MATERIAL RECOVERY

More value from each collected device



Repair, refurbishment, and remanufacturing

Assess reusable devices before dismantling. Affordable electronics can serve more users in Ghana.



Life-Changing Product

Education, Information and Entertainment

ERG MATERIAL RECOVERY

Cable recovery provides a practical starting point





Sorting and mechanical processing support copper recovery without open burning.

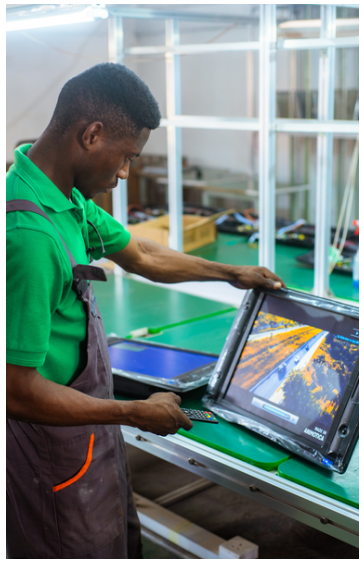
Growth priority: dependable input quality, measured yields and agreed specifications for buyers.

U.S.-Africa Partnership: Reuse First, Recover Next

Extend device life, expand digital access and return valuable materials to manufacturing.

- **Reward device returns:** Offer U.S. consumers trade-in payments, vouchers or discounts for previous-generation smartphones and laptops.
- **Prepare for reuse:** Test, securely erase data, repair and refurbish devices for a productive second life in Africa.
- **Expand affordable access:** Help more African households, students and businesses own and use digital devices.
- **Collect after use:** Build local take-back networks to recover devices at the end of their useful life.
- **Recover materials safely:** Manually dismantle devices in Africa and separate components containing valuable and critical materials.
- **Close the loop:** Send recovered materials to qualified U.S. processing partners for refining and return to manufacturing.







GROWTH AMBITION

Local value creation with international partners

SeSa Tec Hub

ERG’s ambition combines affordable devices, repairs, collection and internet access.



2,500 hubs
10,000 green jobs

2030 targets from ERG’s company profile.
Targets represent ambition, not current delivery.

THE AFRICAN OPPORTUNITY

Africa's e-waste: a circular economy opportunity

Regional scale. Local enterprise. Partnerships that unlock material value.

REGION	E-WASTE (TONNES)	FORMAL RECYCLING RATE*
North Africa	**1,500,000**	**<1%**
West Africa	**750,000**	**<1%**
Southern Africa	**580,000**	**4%**
East Africa	**430,000**	**<1%**
Central Africa	**310,000**	**<1%**

Ghana: 72,000 tonnes | Nigeria: 500,000 tonnes

3.57 million tonnes

Regional total in the ACET table

E-waste generated in 2022

THE PARTNERSHIP OPPORTUNITY

Invest in collection and safe processing.

Include and train informal collectors.

Scale repair, reuse and refurbishment.

Connect recovered materials to buyers.

African enterprises + international partners = green jobs and stronger recovery systems

Sources: ACET (2025), Table 2, using Global E-waste Monitor 2024 data (2022); ACET circular economy analysis (2025).

*Formal rates shown as <1% where below 1%; Southern Africa remains 4%. Regional total sums rounded figures, not ERG feedstock.

MATERIAL OPPORTUNITIES

Different components need different recovery routes

E-WASTE FRACTION	POTENTIAL MATERIALS	COMMERCIAL ROUTE
Cables and electrical wiring	**Copper**	**Mechanical separation and grading**
Printed circuit boards	Copper, tin, silver, palladium; gold also adds value	Grade boards, sample lots and use specialist refiners
Selected rechargeable batteries	Lithium, cobalt, nickel, graphite	Chemistry identification and specialist battery recycling
Selected drives and motors	Rare earths in permanent magnets	Component separation and qualified recovery partners

Materials vary by product, age and chemistry. These are sector opportunities, not a claim that ERG currently refines each material. Recovery economics require assays and buyer specifications.

GHANA·S COLLECTION NETWORK







- **Over 15,000 workers support Ghana's waste collection network.**
- Collectors walk many kilometres every day to reach homes, companies and repair shops.
- Collection in Ghana can be more efficient than in some Western countries.

From informal practices to formal systems



Informal practices

Manual dismantling in open work areas

Limited protection and mixed material storage

Collection skills and livelihoods to build on



ERG formal good practice

Organized workstations, tools and protective equipment

Training, safe sorting and hazardous-part handling

Documented material flows and qualified downstream routes

The opportunity: support informal workers to join safer, more productive recovery systems.

Photos supplied by ERG. Right-hand points describe good-practice goals; photographs alone do not verify compliance.

Open cable burning: where does the value go?









REPORTED TRADE PATTERN

- Workers who openly burn cables are paid **about US$2,000 per tonne by** international brokers.
- Most of this material is reportedly exported to countries in Asia and the Middle East.
- After passing through several brokers, the material is reportedly sold into Western **markets for over US$10,000 per tonne.**

> **OVER 90% - ERG REPORTED ESTIMATE**
> Cables burned come from automotive and construction sources rather than e-waste.

The opportunity: safer local processing and direct, transparent buyer relationships.

Source: Nana Yaw Konadu / ERG, reported estimates; not independently verified. Historical photographs supplied by ERG.
Prices may reflect different material grades and processing stages; the spread is not a verified broker profit margin.

More value for collectors. Transparent trade.



Illustrative copper cable processing equipment

- ERG plans to acquire multiple copper processing plants in 2027.
- Informal collectors will be able to bring their cables for immediate, on-site processing.
- **Collectors are expected to receive about 50%** more than they receive for burned cables.
- ERG plans to export the recovered copper to international companies.
- **Transparency and traceability are ERG priorities.**

A planned alternative to open burning: local processing, fairer returns and clear records.

Source: ERG plans and estimates. The 50% uplift is a target, not a guaranteed payment. Equipment image is illustrative.

INVITATION

A partnership that creates value in Africa

ERG invites partners to build reliable recovery systems in Ghana and develop a platform for wider West African collaboration.

For North America: qualified material supply and responsible recovery partnerships.

For Ghana: stronger local processing, skills and livelihoods.

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REFERENCES

Sources and scope

Company evidence

Electro Recycling Ghana Company Profile 2026, supplied 20-page PDF. ERG photographs, operating scope and SeSa Tec Hub targets come from this document. The event details come from the supplied speaker announcement.

Africa statistics

ITU / UNITAR, Global E-waste Monitor 2024, Africa regional data for 2022: approximately 3.55 million tonnes generated and 0.7% documented formal collection and recycling.
https://www.itu.int/pub/D-GEN-E_WASTE.01-2024

Critical materials

USGS, final 2025 List of Critical Minerals, published November 2025. Copper and silver joined the U.S. list in 2025. Definitions differ by jurisdiction.
https://www.usgs.gov/news/science-snippet/interior-department-releases-final-2025-list-critical-minerals

Photographs and interpretation

ERG operational photographs come from the supplied profile. Collector figures were supplied by ERG. The collection comparison reflects ERG?s assessment. Historical Agbogbloshie photographs and reported estimates are identified on the relevant slide. Partnership proposals and pilot steps describe a recommended approach, not existing contracts or verified capacity.