



SWITCH Africa Green  
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# SWITCH AFRICA GREEN

## CASE STUDY # 3

### STORIES FROM BENEFICIARIES

#### AFTER THE GEMOD PROJECT

#### BIO-DATA

Project Title:	Ghana E-waste Model
Grantee:	Environmental Protection Agency
Enterprise (MSME):	Eastern Region Scrap Dealers Association
Year Established:	2017
No. of Employees:	75 masters with at least 800 scrap dealers
Sector:	Integrated Waste Management
Type of Business:	Scrap Dealers
Location:	Koforidua

#### PROJECT

#### BACKGROUND

The overall objective of the GEMOD model is to develop a sustainable National e-waste management system which makes e-waste and/or components re-usable to minimize environmental pollution. GEMOD was to establish a structured approach to e-waste management via education/awareness creation on collection, refurbishment/dismantling, sorting of recovered components for recycling/upcycling, safe disposal of hazardous components and export of

recyclables (and hazardous components) in order to provide a solution to the negative tag of unsustainable e-waste management in Ghana.

## COMPANY PROFILE

The Eastern Region Scrap Dealers Association whose rise has been short of meteoric is a classic example of project "spillover effect" since they were not originally part of the intervention areas but some members received the training, assimilated its usefulness and organized themselves to form a group to receive more structured support from the project. The association has been duly registered and has been offered 0.76 acres of land to operate on.

## ISSUES ADDRESSED

- ✓ Manual dismantling and retrieval of e-waste components
- ✓ Build capacity in Environmentally Sound Management (collection, transportation, component identification, economic evaluation of whole e-waste and components) of E-waste
- ✓ E-waste Plastic characterization
- ✓ E-waste business models
- ✓ Formalization and regularization of operations with relevant regulatory bodies

## PROJECT IMPACT

### *Environmental Impact*

- ✓ Recovery of components from damaged appliances for secondary market
- ✓ 60% reduction in open burning of e-waste resulting in less air, soil and water pollution
- ✓ Diversion of waste from landfill due to non-disposal of plastic components as a result of recycling and reuse

**60%**

reduction in open  
burning of e-waste

**400%**  
increase in  
profit of  
masters

## PROJECT IMPACT

### *Economic Impact*

- ✓ 400% increase in profit of masters
- ✓ Additional product (plastics and recovered components) streams sales
- ✓ Improved quality of recovered components due to elimination of contamination from dismantling culminates into better retail prices e.g. oxidized copper wire sells less than half of stripped un-oxidized copper wire.
- ✓ Operation as a collection centre for whole and components/parts for electronic wastes generating revenue

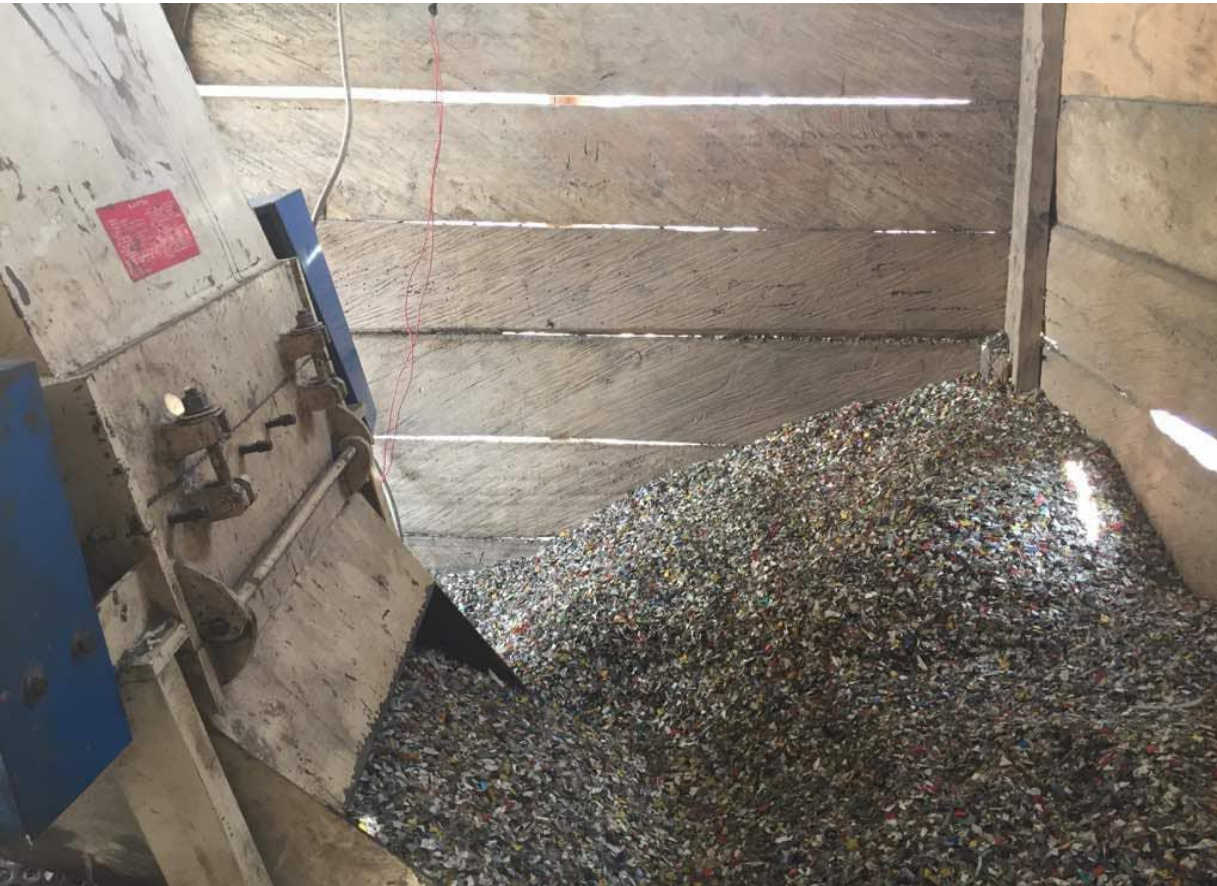
### *Social Impact*

- ✓ Improved working conditions for workers due to the elimination of risk in the work place.
- ✓ Improved incomes
- ✓ Improved membership and image due to regularization of operations
- ✓ Access to niche market due to sustainable consumption and production practices
- ✓ Capacity building and skill acquisition for workers
- ✓ ESDA has become a model for sustainable e-waste formalization and operations for other Scrap dealer group

The association has been duly registered and has been offered **0.76 acres** of land to operate on.



# PHOTOS







## ADDITIONAL INFORMATION

NA

## CONTACTS

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SUPPORTING PARTNERS



IMPLEMENTING ORGANIZATIONS

[www.ncpcgh.org](http://www.ncpcgh.org)

**GHANA NATIONAL CLEANER PRODUCTION CENTRE**

