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.
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

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.

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
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 workplace.
- 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

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