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SWITCH AFRICA GREEN

CASE STUDY #1

STORIES FROM BENEFICIARIES

AFTER THE GEMOD PROJECT

BIO-DATA

Project Title:	Ghana E-waste Model
Grantee:	Environmental Protection Agency
Enterprise (MSME):	City Waste Recycling Limited (CWR)
Year Established:	
No. of Employees:	62
Sector:	Integrated Waste Management
Type of Business:	E-waste Management
Location:	Pokuase- Afiaman, next to Chief's Palace, Accra-North

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

City waste recycles waste ranging from refrigerators, batteries and plastic, which it sources from local industries and waste collectors in Ghana. From this waste, CWR generates products such as plastic pellets, printed circuit boards, ODS, ULAB and exports recycled e-waste products

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

PROJECT IMPACT

Environmental Impact

- ✓ *Improved waste management*
- ✓ *Diversion of waste from landfill*
- ✓ *Movement of waste up the waste hierarchy*

Economic Impact

The number of employees has doubled to 62 persons. Cost saving (about 10%) was achieved through the intervention by streamlining working procedures.

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Social Impact

- ✓ *Health*
- ✓ *Job*
- ✓ *New revenue streams*
- ✓ *Increased income*

In 2018 **over 2,000 MT** of Plastic and e-Waste was recycled at City Waste.

Over **13 MT** of R12 (ODS) was traded against carbon credit

City Waste is at the moment expanding its recycling capacity by constructing a new recycling plant at Teacher Mante in the Eastern Region on **a 6-acre land** which will employ up to **200 people** and give jobs to at least **3,000** in the informal sector (collection points of recyclable materials in collaboration with CARITAS Ghana)

QUOTES

The project enabled City Waste to employ more women in the community by improving their livelihood through training.

PHOTOS



Figure 1: Upcycling of waste water sachets into carrier bag



Figure 2 & 3: Home decor and artifacts made from e-waste

ADDITIONAL INFORMATION

NA

CONTACTS

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New Plant (under construction) Teacher Mante



SUPPORTING PARTNERS



IMPLEMENTING ORGANIZATIONS

www.ncpcgh.org

GHANA NATIONAL CLEANER PRODUCTION CENTRE

