



SWITCH Africa Green
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SWITCH AFRICA GREEN CASE STUDY

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INDUSTRIAL SYMBIOSIS

STORIES FROM
BENEFICIARIES

BIO-DATA

Project Title:	Enhancing resource productivity and environmental performance of MSMEs through the concept of industrial symbiosis
Grantee:	Ghana National Cleaner Production Centre
Partner:	Africa Roundtable on Sustainable Consumption and Production
Enterprise (MSME):	Buckpress Limited
Year Established:	1980
No. of Employees:	148
Sector:	Integrated Waste Management
Type of Business:	Printing and Publishing
Location:	Ofankor, Accra

PROJECT BACKGROUND

The Industrial Symbiosis Project introduced to MSMEs the concept of useful uses for waste generated either in-plant or by another company. This was to aid in the effective management of waste by moving waste generated up the waste hierarchy.

Through the project the MSMEs were trained in the following:

- Concept of industrial Symbiosis and Benefits to the MSME
- Process Mapping to identify resource inputs, product output and waste streams either for a specific product line or the entire facility.
- Data Collection/Gathering for resources/wastes.
- Prioritizing waste stream for Industrial Symbiosis
- Waste segregation.

ISSUES ADDRESSED

Buck Press Limited is a leading printing company in Ghana that prints and publishes books as well as security printing. The company has an installed capacity of 10,400MT/month and an operating capacity of 5,400MT/month. As part of the printing process the company generates a lot of paper offcuts, defects and powdery paper. These wastes constitute about 35% of the company's total solid waste.

Through the industrial symbiosis project the company was linked to a paper recycling company, that is, Shinefeel Ghana limited. Shinefeel Ghana Limited through its subsidiaries collects the paper waste (paper offcuts, defects and powdery paper) every month for recycling, thus reducing the companies waste to landfill.

PROJECT IMPACT

2.6

tons/month of waste paper
was diverted from the landfill
and GHG savings of

4680kg

CO₂e per month

Approximately

GH¢ 3600

per year from the sale of
the paper waste

Jobs have been created for
intermediary companies
that collect and transport
the waste paper to
Shinefeel. A total of

3

new jobs were created in
this particular case.

CHALLENGES IN IMPLEMENTATION

The initial challenge the team encountered was finding an appropriate end user of the waste.

The absence of/insufficient data on the various waste streams

Lack of technical specification of the wastes generated.

LESSONS LEARNT

Buck Press Ltd intends to replicate this for their other waste streams.

There is opportunity for individuals to operate in the value chain as waste collectors and transporters.



Images from top to bottom of waste paper from BuckPress Limited and the finished product made from the recycled paper by Shinefeel Limited.

CONTACTS

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IMPLEMENTING ORGANIZATIONS

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**GHANA NATIONAL CLEANER PRODUCTION
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