

'GOOD HOUSEKEEPING' GUIDE APPLICATIONS IN COMPANIES

SBA
Sustainable Business Associates

DELTA PROGRAMME
DELTA Jordan
DELTA Syria

ACQUISITION OF A GRINDING MACHINE TO REUSE PLASTIC PARTS NATIONAL REFRIGERATION Co., JORDAN & AL HAFEZ Co., SYRIA

WHAT IS THE 'GOOD HOUSEKEEPING' GUIDE?

This Guide is a simple management tool developed by GTZ/P3U and SBA. It contains Checklists and describes common sense measures that companies can take related to 'good housekeeping'.

These measures can help companies to reduce their production costs, enhance product quality, and minimise the impact of industrial operations on the environment.

IN BRIEF

These 2 companies produce refrigerators of various sizes for

domestic use. Through lack of training and faulty design, the molded plastic components of the refrigerator often did not comply with specifications and there was a lot of raw material that was ending as waste. This led to lack of storage space and the cast-off elements being sold off at a loss.

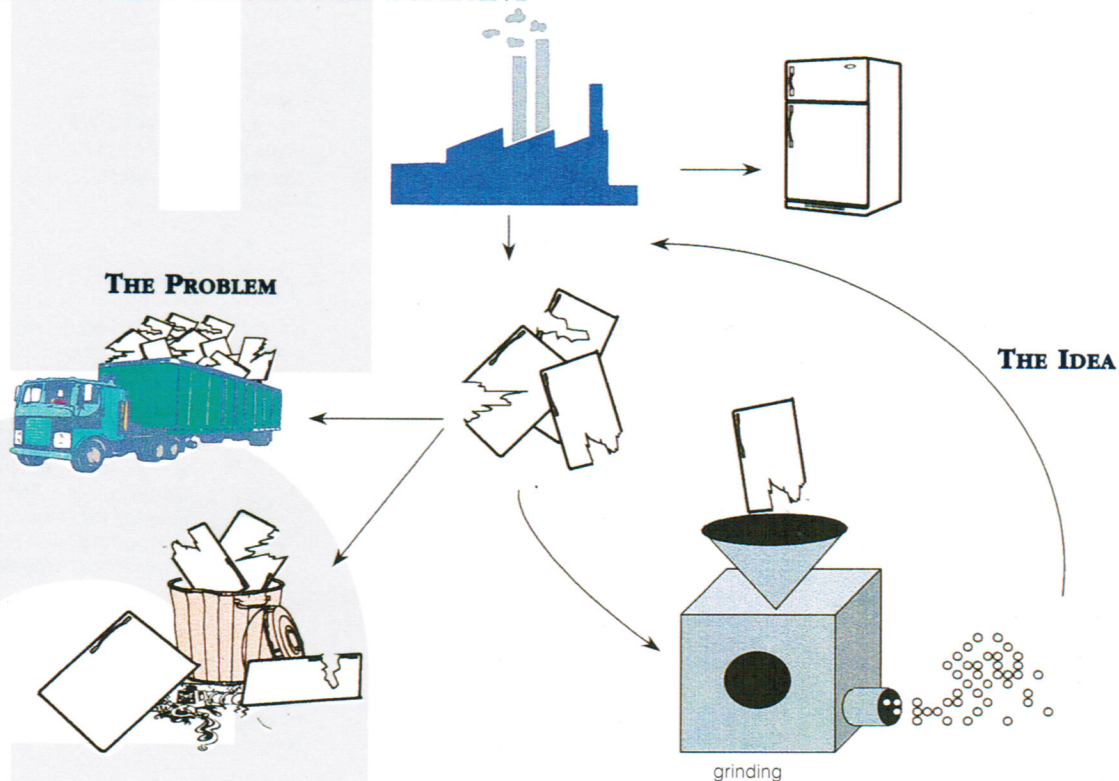
THE CHALLENGE

There was an immediate need to re-arrange the manufacturing methods and the faulty molds used for certain processes. Another primary concern was to lessen the demand on raw materials and reduce the amount of plastic waste disposal.

APPLICATION OF THE 'GOOD HOUSEKEEPING' GUIDE

By using the Good Housekeeping Guide, these 2 companies learnt that the plastic could be recycled without affecting the quality of their end product, by grinding it down. Therefore a new grinding machine was purchased that enabled the recycling of nearly 5 tons of plastic annually in the case of National Refrigeration Company. In addition, the cutting methods and molds were re-designed. This created less wastage. The personnel were also trained how to correctly handle the goods, causing less damage.

ACTION TAKEN WITHIN THE COMPANY



ECONOMIC RESULTS

Investment cost	1'500 US\$ for a grinding machine
Annual running costs	100 US\$
Annual savings	3'000 US\$
Payback	6 months

ENVIRONMENTAL RESULTS

Both companies learnt to recycle their sub-products, which lessened their previously negative impact on the environment. The new design for cutting, better handling techniques and improved staff training lead to the decrease of demand on raw materials thus there was a significant reduction in refuse.

LESSONS LEARNED

Analyzing ones production process can lead to various solutions to diverse problems. Here, the recycling of the generated broken plastic parts added an extra income for the factories. By reintroducing the grinded plastic in the process a second life was given to raw material.

COMPANIES

National Refrigeration Co., Amman, Jordan; manufacturer sector, a refrigerator assembly factory, 150 employees.

Al Hafez Co., Damascus, Syria; manufacturer sector, a refrigerator assembly factory, 150 employees.

FOR FURTHER INFORMATION

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WHO IS SBA ?

SBA, Sustainable Business Associates is an international non-governmental organisation (NGO) working to engage industrialists in 'eco-efficiency' with the aim of minimising environmental impact and improving business productivity. To pursue this aim, SBA has initiated the DELTA Programme to sensitise industrialists to new business risks and opportunities, and to provide them with the management tools and training to move towards sustainable development.

WHAT IS DELTA?

DELTA stands for Developing
Environmental Leadership Towards Action.

Chapter 30 of Agenda 21 (an outcome of the 1992 United Nations 'Earth Summit') indicates that business & industry have a critical role to play in achieving sustainable development goals. After an initial awareness-raising phase, the DELTA Programme focused on structuring industrialists in 'business & environment' networks (DELTA Networks) in 11 countries of the Mashrek & Maghreb. These Networks are composed of key industrialists interested in taking a proactive, leadership role on environmental issues. The DELTA Networks are practical, working structures for industrialists to obtain information & contacts, exchange experiences, develop environmental

know-how, and gain access to practical management tools that can offer 'win-win' options based on eco-efficiency.

SUPPORT TO DELTA



The DELTA programme is supported by the European Commission (LIFE), the Swiss Agency for Development & Cooperation and other international organisations.

WHERE ARE THE DELTA NETWORKS?

DELTA Networks are operating in: Algeria, Egypt, Jordan, Lebanon, Libya, Mauritania, Morocco, Palestine, Syria, Tunisia and Turkey.