

'GOOD HOUSEKEEPING' GUIDE APPLICATIONS IN COMPANIES

SBA
Sustainable Business Associates

DELTA PROGRAMME
DELTA Lebanon

SAVING ENERGY BY MONITORING CONSUMPTION OF MACHINES UNIVERSAL PAINT AND CHEMICAL INDUSTRIES (UPCI), LEBANON

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

As the company's paint production increased, additional milling machines were bought from various sources and with different designs. When the machines were

purchased, little attention was given to comparing their electricity consumption. But very quickly the electricity bill became higher. The Good Housekeeping Guide drew the Production Manager's attention to the energy cost. He was encouraged to undertake a small energy audit and make the necessary corrective measures.

THE CHALLENGE

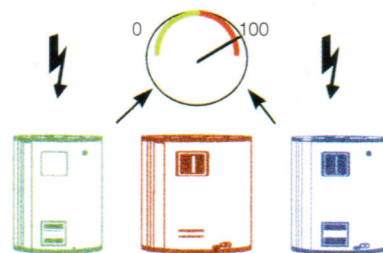
Having purchased new mills, the Manager was faced with an increasing electricity bill. An initial energy audit made him aware that the comparison of energy consumption for each machine could enable him to reduce the total electricity bill.

APPLICATION OF THE 'GOOD HOUSEKEEPING' GUIDE

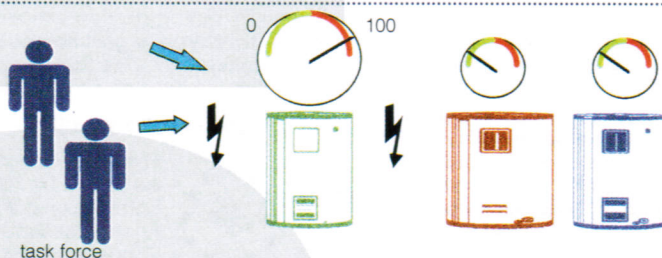
The Guide's checklist for Saving Energy was reviewed by the Manager. He then decided to undertake a small energy audit. Mechanics and production foremen created a special task force. They gauged the electric consumption of each machine versus their production efficiency. The results showed that some machines were doing practically the same job but at different amperage levels. One dispenser in particular had a very high consumption level. The Production Manager decided to stop using this machine where possible and rely on less energy consuming mills.

ACTION TAKEN WITHIN THE COMPANY

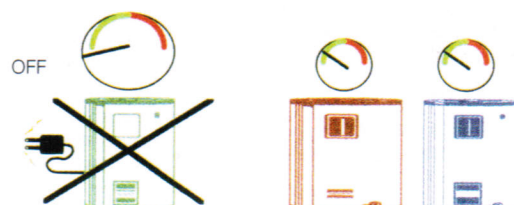
THE PROBLEM



THE IDEA



THE SOLUTION



ECONOMIC RESULTS

Investment cost	180 US\$ for staff time and purchase of electric gauge
Annual savings	334 US\$
Payback	6.5 months

ENVIRONMENTAL RESULTS

More and more machine manufacturers consider their design as an important factor since this can have repercussions on electricity consumption and thus limit the associated pollution of energy generation. Therefore the good concept of factory's components can have a positive impact on the environment.

LESSONS LEARNED

UPCI experience illustrates that the Manager of an expanding company should take environmental management into consideration. Purchasing an "environmental friendly" machine avoids future energy costs and improves profitability.

COMPANY

Universal Paint and Chemical Industries S.A.R.L., Beirut, Lebanon; chemical sector, a paint factory, 50 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.