



Environmental performance indicators case study

• To complete the Ecomapping approach

Fine Hygienic Paper Co. Ltd., Jordan

The company and its motivations

Fine Hygienic Paper Co. Ltd (Fine), part of the Nuqul Group of Companies, is a major regional player in the production and sale of hygienic products: tissue paper, stationery paper, baby diapers, ladies napkins, toilet paper rolls, kitchen towels, industrial towels, wet wipes, c-fold, straws and coasters. To meet the needs of their customers, Fine established high quality and environmental standards of products and services. Certified ISO 9002 and ISO 14001 the company is dedicated to the continuous improvement of the quality and of its environmental performances. By using the Ecomapping guide, Fine carried out an environmental review. The company would like to complete this approach with a quantitative evaluation.

Selection of Indicators

With the help of Ecomapping, Fine identified four main environmental aspects: dust, water, noise exposure and energy. The management decided to monitor these aspects through five indicators:

- Dust emissions (mg/m³)
- Water consumption per output (l/tonnes)
- Wastewater analysis (mg/l)
- Daily personal noise exposure (dB)
- Energy consumption per output (j/tonnes)

All this information collected constitutes the core of the Fine's Environmental Performance Information Board

• Environmental performance indicators

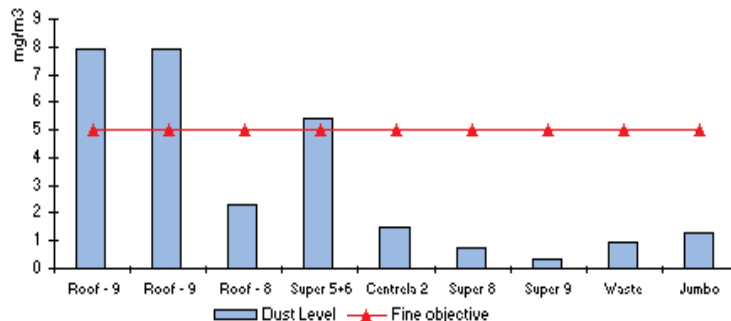


Fig 1: Dust level

Comments:

To prevent fires and explosion, Fine measures on a regular basis the dust level within the company. Fine reached the Jordanian legal requirement (10 mg/m³) and then decided to target a new (in-house) objective: 5 mg/m³. To reach this objective the company set an action plan and decided to invest in new roof ventilation.

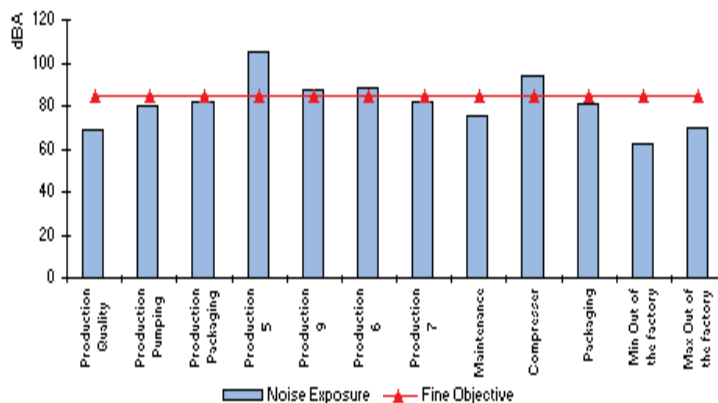


Fig 2: Noise exposure

Comments:

To improve the working conditions of its employees and to reduce the cases of occupational deafness, Fine decided to invest in a new insulation for the noisy machines. Thanks to these investments, they target to reach the objective of (noise exposure) < 80 dB.

• Interpretation and corrective measures

Indicators	Interpretation	Action	Payback
Energy consumption per output	To evaluate the result of the eco-efficiency actions implemented.	Rescheduling the working hours of the machines during the peak hours. To reduce lighting energy consumption using occupancy sensors.	Reduction of the energy bill by 6%.
Noise exposure	Improvement of the occupational health and safety. Improvement of the working conditions	To select the right ear protection for employees. Segregation of noisy tasks.	Diminution of the occupational deafness.
Dust level	Evaluation of the risk exposure: fires and explosion.	To check and improve the dust collection equipment. To ensure that paper waste does not accumulate in the workplace. To provide training for employees in what to do in the event of a fire.	Prevention of fires and explosions.

• Communication

These indicators are used to communicate the environmental performances to employees as well as to customers. During the regular ISO 14001 audits the responsible of the environmental management system used the indicators to prove Fine's continuous improvement and to present a synthetic environmental statement

• Monitoring

The environmental performance indicators enable Fine to monitor its environmental impacts and to evaluate the results of its environmental policy. The indicators are completely integrated in the environmental management system.

• For further information

• WHO IS SBA ?

SBA, Sustainable Business Associates, is an international non-governmental organisation (NGO) working to engage industrialist 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.

• WHERE ARE THE DELTA NETWORKS ?

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

• SUPPORT TO DELTA



• WHAT IS DELTA ?

DELTA stands for **D**eveloping **E**nvironmental **L**eadership **T**owards **A**ction. 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 role and leadership 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 ecoefficiency.

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The Environmental Performance Information Board, developed by SBA in collaboration with ABCD-Durable, completes the other eco-management tools developed within the framework of the DELTA Programme. It is based on the data collected, it enables companies to measure environmental impacts and to build performance indicators. Its 'monitoring' dimension acts as a thread in the implementation of an Environmental Management System (EMS).