



• Focus on improving working conditions

Madaen Industrial Co. Ltd, soap producer, Jordan

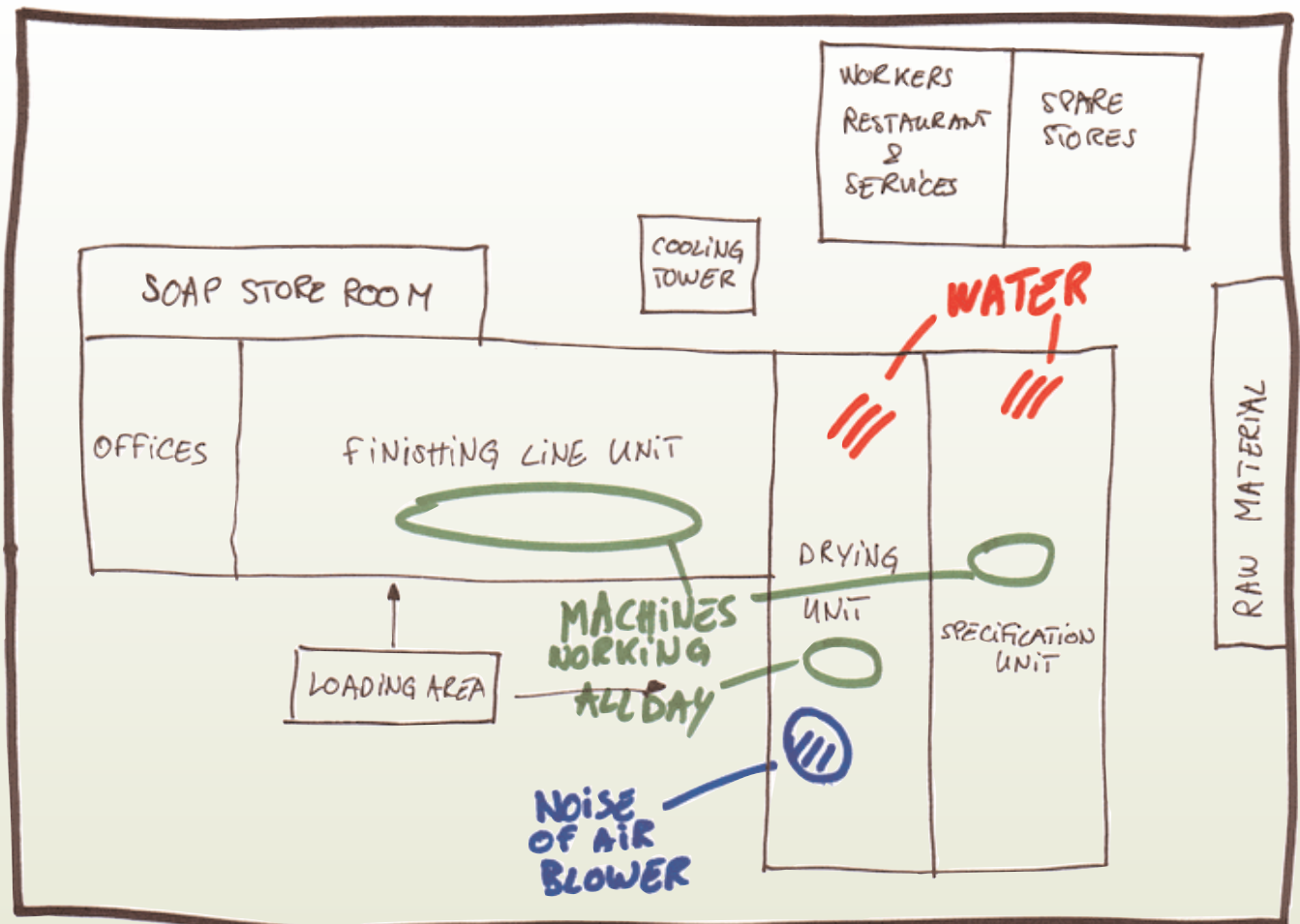
In brief

Madaen Industrial Co. Ltd. (MIC, 80 employees) is an ISO 9002 certified company producing toilet and laundry soap noodles and bars through the continuous fatty acid saponification process. MIC has an annual capacity of 15,000 tons of soap noodles and 7,500 tons of soap bars. It is willing to expand to West Europe and North America markets. In this respect, mitigating the environmental impacts of its activities represents a guarantee of quality for its targeted potential clients. Due to high levels of noise, water and energy consumption, MIC decided to use Ecomapping to carry out an environmental review.

Application

In the employees' opinion, noise was the major problem to be immediately tackled with. Indeed, the noise of the air blower, located in the Drying Unit, was unbearable to someone who works in the unit all day long. Thus, the machine was removed outside the building and properly insulated. This had no consequence on the process as the air blower was still connected to the production line through a longer pipe system. Moreover, a new operation schedule was implemented to avoid operating the machines during the peak hours.

• Ecomaps



• Action plan

Environmental aspect	Corrective measures	Investment	Annual savings
Risks	Removing the air blower outside the building	500 US\$	180 US\$
Energy	Rescheduling the working hours of the machines during the peak hours	0 US\$	9'600 US\$
Water	Installing a heat exchanger and redirecting water into the process	360 US\$	6'960 US\$

• Mini audit *

Although workers highlighted the noise as the major problem, they also considered that energy was misused and long-term green planning missing. As the different units worked according to orders, the lightning was not adapted to the situation. The maintenance department had to plan a lightning schedule according to orders.

Reduction and control of noise

Use and choice of energy

Green planning

• Lessons learned

Besides environmental aspects, Ecomapping can help the company to assure better working conditions. Although the removing of the air blower outside will not help protecting the natural environment, it will enable MIC operators to work in a more pleasant atmosphere and considerably reduce accidents and absenteeism.

• For further information

• 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.

• 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 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 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 eco-efficiency.

• SBA

Sustainable Business Associates
60, ch. du Petit-Flon
CH - 1018 Lausanne, Switzerland
Tel: + 41 (21) 648 4884
Fax: + 41 (21) 648 4885
Email: sba@planet.ch
Web site: <http://www.sba.hello.to>
Contact: Karim Zein, President

• DELTA JORDAN

The Friends Of Environment Society/The Jordanian Network of Environmentally Friendly Industries (FOES/JNEFI)
P.O. Box 840795
Amman 11184, Jordan
Tel: +962 (6) 551 4 430
Fax: +962 (6) 551 4431
Email: jnefi@foe.org.jo
Web site: <http://www.jnefi.foe.org.jo>
Contact: Raouf Dabbas, President

The **Ecomapping Guide**, elaborated by the Association Belge des Eco-Conseillers (ABECE, Belgium), is a visual tool that enables managers and their staff to assess the environmental performance of a micro-company or workshop. By drawing a set of maps (water, soil, risk, air, etc.) of the plant, the main environmental risks and sensitive areas of the factory can be identified. See <http://www.ecomapping.org>

*The mini audit is a 120-second audit done by the workers to assess the company's environmental performance. The results of all staff are then consolidated in a table that is analysed and graphically interpreted.