



TOGETHER
for a sustainable future

OCCASION

This publication has been made available to the public on the occasion of the 50th anniversary of the United Nations Industrial Development Organisation.



TOGETHER
for a sustainable future

DISCLAIMER

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as “developed”, “industrialized” and “developing” are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact publications@unido.org for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org

CLEANER PRODUCTION FACTSHEET

KAMAPLAST Ind s.ar.l.



BACKGROUND

KAMAPLAST Ind s.a.r.l was established in 1983 and located in Ghazieh – South Lebanon. Kamaplast has 122 employees.

It produces and manufactures plastics household articles.

The factory is equipped with imported, modern and latest industrial machines, along with moulds of high technical and international plastic standards due to the up growing demand for in meeting the requirements of our clients.

KAMAPLAST is looking towards a promising future to satisfy all dealers in Lebanon, Europe, Arab and African countries.

EVALUATION STATEMENT FROM KAMAPLAST

We are so honored to attend the conference which taught us how to reduce the toxicity of emission and waste.

We learned how to save energy which in it's turn save the cost and hence, reduce waste generation.

We take in your advice to put heat isolator between resistances to prevent the temperature to get out.

We begin to work in an exact way to improve the quality.

With your help our company will develop to be always the best in it's continuity.

A handwritten signature in black ink, appearing to read 'H. Kabalan'.

Dr. Eng. Hussein M. Kabalan
General Manager

CP OPTIONS IDENTIFIED AT KAMAPLAST

- Lighting (60KW/ day)
- Improve Sorting between Clean/Unclean Plastics for recycling
- (Improve) Insulation of Barrels
- Check Energy Efficiency
- Clean filters
- Check water cooling system
- Calculate indicators

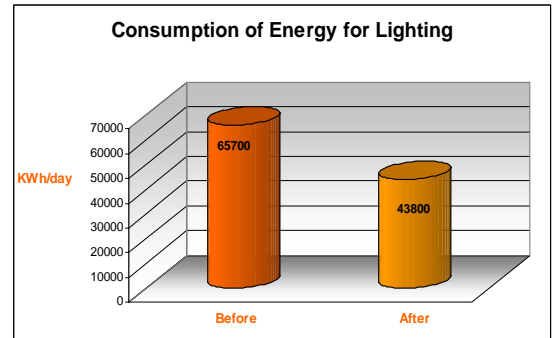
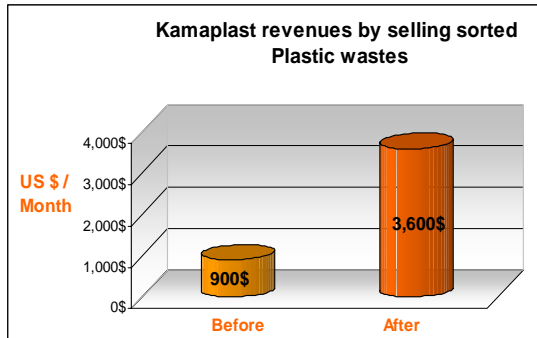
SAVINGS ACHIEVED AT KAMAPLAST

The application of the first two CP options saved yearly 31 679 USD at no investment cost, only some good housekeeping.



Kamaplast resorted 100Kg of clean/ unclean plastic wastes per day.

The savings achieved by re-using the sorted wastes and saving 60KWh/day in energy due to efficient consumption of lighting are shown in the graphs below:



Photos below are self explanatory showing the situation of lighting and sorting before and after the implementation of the first two CP options



CONTACTS

Lebanese Cleaner Production Centre
Industrial Research Institute
Hadath- Baabda, P.O. Box 11-2806.
Telefax: +961 5 467 831-7, ext: 241-211
Email: info@lebanese-cpc.net
Webpage: www.lebanese-cpc.net

KAMAPLAST Industrial Co.
Ghazieh- Saida
Lebanon
Telephone: +961 7 222200
Fax: + 961 7 220079
Email: Expo@kamaplast.com.lb
kama@kamaplast.com.lb
Webpage: www.kamaplast.com.lb

