

Introduction

Sicomo S.a.l.

- ❑ One of 6 paper/board plants in Lebanon
- ❑ Located in the Bekaa Valley in the middle of an agricultural area
- ❑ Manufacture 100% recycled board
- ❑ Yearly production of 27,000 tons
- ❑ 125 employees
- ❑ Increased capacity 50% in 2 steps over 5 years



Introduction

The Products



- ❑ Board for Book and Agenda Binding
- ❑ Board for box files
- ❑ Paper for tubes (toilet/film/alum/textile...)
- ❑ Board for snack food contact
- ❑ Board for shoe boxes
- ❑ Metallized board for food container/support



Introduction

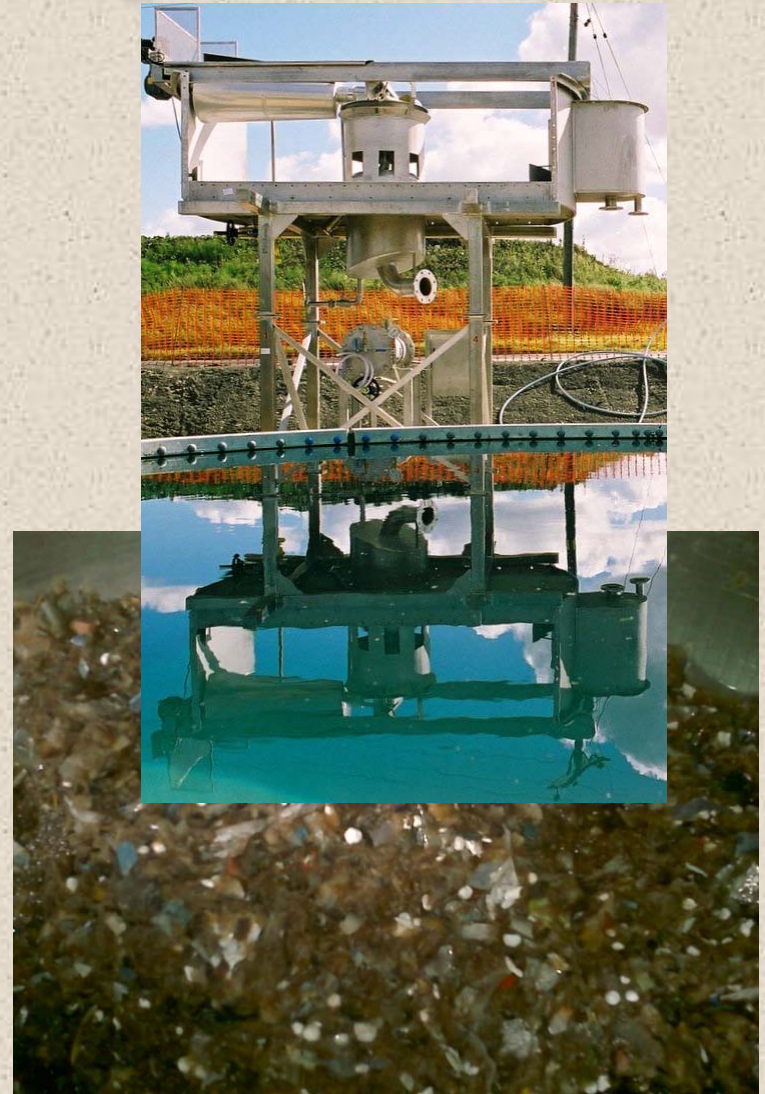
The Process

- ❑ Repulping the collected old fibers
- ❑ Cleaning the slurry
- ❑ Reforming into a roll
- ❑ Transforming into sliced rolls or sheets



The LCPC Program

- ▣ The training
- ▣ The Concept
- ▣ The fields of interest:
 - Energy: Electricity and Heat
 - Compressed Air
 - Water
 - Emissions
 - Solid and Liquid Wastes



Example

The waste water treatment

- ▣ The old network
- ▣ Plant and Production expansions increased water consumption
- ▣ Introduction of the “Reduction at the Source” and “Good Housekeeping” theories
- ▣ Awareness campaign
- ▣ 20,000\$ investment
- ▣ Results (Before and After)

Water Treatment CP

	Old Production	New Production			
	18000 tons	27000 tons			
	Old Water Cons	New Water Cons	After CP prog.		
Consumption	@ 80ppm	@ 100ppm	@ 40ppm	Hourly Savings	Yearly Savings
Water (m3/h)	100	140	105	35 m3/h	11088\$
Energy (3.5kw/10m3)	35	49	36.75	12.25 kw/h	14553\$
Chemicals (0.7\$/10m3)	7	9.8	7.35	2.45 \$/h	19404\$
Fibers	80	112	84	28 kg/h	8205\$
				Total	53250\$