CLEANER PRODUCTION FACTSHEET

SOLICAR

BACKGROUND

SOLICAR SAL is one of the major paper-making industries in the region. The mill located in the industrial region of Wadi Chahrour has an area of about $20,000m^2$. It employs 110



persons and exports more than 50% of its production to the Middle East and the Gulf regions. The various paper and board products are made 100% from recycled waste paper. About 50% of the production is test liner, 25% grey board and 25% high pressure impregnation board. Waste paper is mixed with water mainly into a cleaning, a refining then a drying stage.

EVALUATION STATEMENT FROM SOLICAR

"Our collaboration with the Lebanese Cleaner Production Centre (LCPC) showed some improvements concerning our energy consumption.

It confirmed our technical upgrade plan for implementing energy saving options and installing additional filtration units. It also pointed out the imminent need for insulation of boiler's incoming and outgoing pipes.

SOLICAR recognize the important industry benchmarking data provided by LCPC expert and some relevant activities and idea exchange developed during the workshops.

Michel GHANEM Quality Manager SOLICAR S.A.L

CP OPTION IMPLEMENTED AT SOLICAR

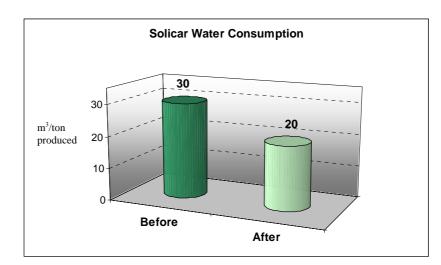
- Installation of the adequate insulation for boiler's pipes;
- Optimization of the use of refiners;
- Increase in production reducing specific energy and water consumption;
- Improvement of the workers' awareness and supervision.

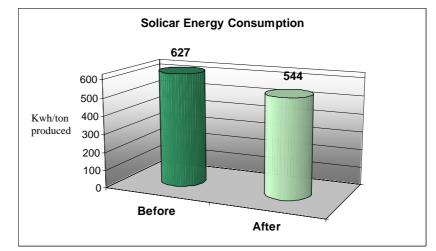


SAVINGS ACHIEVED AT SOLICAR

The installation of the adequate insulation for boiler's pipe as indicated by LCPC expert <u>saved 13,312\$/year</u> at an <u>investment of 1,000 \$.</u> The other major options implemented by Solicar reduced energy consumption from 627 to 544 Kwh/ton produced and the water consumption from 30 to 20 m³/ton produced.

Graphs showing a decrease of 33.3% in water and 13.3% in energy consumptions per ton produced after the increase in production are presented below:





Steam collectors and network wool glass at Solicar S.A.L. before and after insulation are shown below:







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