

## Sustainable Industrial Production Success Stories 2005 Fabrica de Textiles del Tolima



FATEXTOL S.A, is a company of the textile industry, producer of T-Shirt in cotton 100%. It has an install capacity of 1.300.000 units per month.

At the moment, it exports the 80% of its productions to the United States, the other 20% is for national market,

especially for cities like Bogota, Medellin and Cali.

In the plant it has a labour force of 66 direct employees and it has 500 indirect employees. It has US\$5.5.millions in assets.

### Sustainable Production at Fatextol



*Old installations based on chemical treatment of steel*



*New instalations of low consumption.*

Originally the company had a chemical preparation of metals. This process was changed towards a mechanical one. The company changed the complete production line, the plant layout and the core production process with this investment. The impact of this investment are significant changes in the environmental, economic as well as social field. The new production process also reduces throughput times and improves the product quality. The competitive position of the company is thus clearly improved giving an example of sustainable industrial production modes.

## Results

### **Environmental Benefits**

The replacement of five machines of long baths (12 liter/kg of fabric) by two machines of short bath (6 lt/kg of fabric). Increase the production capacity of dyeing, improving the productivity, due to the new technology of the dying machines, besides to diminish the water consumption, decrease the time of process, the environmental benefits are the following ones:

- Water consumption reduction, calculated theoretically in 70%.
  - Electricity consumption reduction, anticipated in a 30%, will be determined in the ex ante measurement.
  - Fuel consumption reduction, it will be verified in the ex-post measurement.
- Reduction of contamination load of residual waste waters, calculated theoretically in 70%.
  - Reduction of the consumption of the raw material that entails the reduction in the contamination load of the residual water.

### **Economic Benefits**

The economic benefits of the new technology of the dying machines are basically the reduction in the consumption of raw material.

## Contacts

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