



SUCCESS STORY MODERNIZATION OF A TEA PROCESSING PLANT

Motivated by the ongoing energy price liberalization resulting in substantial electricity price increases, MAROCAINE DES THÉS ET INFUSIONS, a leading Moroccan tea company, invested in more energy efficient equipment both to modernize its production facilities and to reduce the company costs. The old plant dated from the 1970s and consumed significant energy, which resulted in frequent need for repairs.

The company changed one of the lines that processed only 4170 tons of tea in 2014 with a new and more efficient line with a capacity of up to 6500 tons of tea per year.

The most common packaging production units in Morocco, which represent the baseline represent not energy efficient equipment imported from China.

Based on technical advice from the MorSEFF team, MAROCAINE DES THÉS ET INFUSIONS changed its investment plans from purchasing that category of equipment to high energy and processing efficient equipment, from Germany. It also invested in the replacement of its conventional lamps by more efficient LED lamps. This revised investment plan, allowed the company to reduce its specific energy consumption and greenhouse gas emissions by 42% and increase the production capacity of the line by 46%.



THE COMPANY

Industry- Food processing
Location – Casablanca, Morocco



INVESTMENTS

1 941 749 Euros
Packaging machine
Seal machine
Wrapping machine
LED lamps



PROJECT GOALS

Equipment modernization
Increase productivity
Energy efficiency



RESULTS

Increase production: 46%
Energy savings: 1 186 MWh/year
% Energy savings: 42%
Reduction in emissions: 333 TCO2e/year
IRR: 86 %
SPBP: 1.2 years

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