



## SUCCESS STORY ENERGY EFFICIENCY MEASURES FOR A PLASTIC BAGS MANUFACTURING COMPANY

Faced with rising electricity costs and an increasingly competitive market, Multisac, an industrial company specialized in manufacturing woven polypropylene bags and agricultural twines for the food and animal feed industries, sought to reduce its energy bill, and thus production costs. To do so, it is investing in energy efficiency measures.

An initial energy assessment by the MorSEFF team found that Multisac could reduce its energy bill by at least 26%, with a very rapid investment payback period of less than 1 year. The proposed measures consisted of:

- Setting up an energy management system;
- Adding compensation batteries to improve the power factor;
- Stabilizing the supply voltage for two extrusion lines;
- Installing a variable speed drive on one of the air compressors;
- Thermal insulation of chilled water pipes;
- Energy recovery from the outlet of air compressors to be injected at the furnace after the extruder.



### THE COMPANY

SME

Manufacturing of woven polypropylene goods

Location – Casablanca, Morocco



### INVESTMENTS

119 273 Euros

Energy management system

Voltage stabilizers

Variable speed drives

Thermal insulation

Batteries to adjust power factor



### PROJECT GOALS

Reduction of energy consumption

Reduction of greenhouse gas emissions



### RESULTS

Energy savings: 2 403 MWh/year

% Energy savings: 26%

Reduction in CO2 emissions: 1526 TCO2e/year

IRR: 127 %

SPBP: 0.9 years

Developed by



European Bank  
for Reconstruction and Development

In Cooperation with



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Supported by



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(This Fund is supported by Australia, Finland, France, Germany, Italy, the Netherlands, Norway, Sweden, Taipei China and the United Kingdom)

