



SUCCESS STORY PHOTOVOLTAIC INSTALLATION 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 food and animal feed industries, sought to reduce its energy bill, and thus production costs. To do so, it is investing in renewable energy using photovoltaic solar panels on the roof of the company's workshops on an area of 6000 m².

Initial RETScreen modeling showed an electricity production potential equivalent to 680 MWh/year or 12% of the annual need of the factory. Multisac received many offers from different suppliers with different technologies. The MorSEFF team set the following selection criteria for the solar panels and inverters:

- kWh/Euro/year >1.6
- Technology Monocrystallin
- Cell Efficiencies > 14%, Invertor efficiency >98%
- SPBP 7 – 9 years
- Guaranty: 10 years for the cells and inverters



THE COMPANY

SME

Manufacturing of woven polypropylene goods
Location – Casablanca, Morocco



INVESTMENTS

547 900 Euros

Solar cells

Inverters

Cables



PROJECT GOALS

Reduction of energy bill

Reduction of greenhouse gas emissions



RESULTS

RE Production: 1 GWh/year

% Grid supply Replacement: 12%

Reduction in emissions: 700 TCO₂e/year

IRR: 12. %

SPBP: 8 years