



SUCCESS STORY PHARMACEUTICAL MANUFACTURER'S CAPACITY EXPANSION PROJECT INTEGRATING ENERGY EFFICIENCY

Faced with an increasingly competitive environment and rising electricity prices, PHI, a pharmaceutical manufacturer sought out opportunities to reduce production costs without negatively affecting the yield or quality of its products.

PHI is investing in expanded production with a new highly efficient production unit. Energy efficiency measures consisted of double stud wall with rock wool insulation layer, a well-insulated roof with high density polyurethane foam, highly efficient boilers with a 90% minimum yield, air compressors equipped with electronic speed drives, the latest generation of chillers with a coefficient of performance (COP) of 4, double glazed windows with aluminum frames.

These investments should result in 24% energy savings and a payback period of only 2.8 years.



THE COMPANY

Industry- Pharmaceutical
Location – Rabat, Morocco



INVESTMENTS

781 273 Euros
Insulation materials for walls and roof
High efficient boilers and chillers
Efficient compressors with VSD
Double glazed windows



PROJECT GOALS

New construction
Increased productivity
Energy efficiency



RESULTS

Energy savings: 464 MWh/year
% Energy savings: 24 %
Reduction in CO2 emissions: 309 TC02e/year
IRR: 45.8 %
SPBP: 2.8 years