



SUCCESS STORY ENERGY EFFICIENCY MEASURES OF A CITRUS PRODUCTION COMPANY

Faced with considerable challenges with energy market liberalization, increased production cost and competition, Clementina, an agribusiness company specialized in production and export of citrus products, decided to invest in modernizing its production facilities. The company aims to substantially improve energy efficiency to increase its competitiveness as well as enhance its market position while supporting a positive, environmentally friendly brand image.

The project consists of investing in cold storage room equipment with the latest generation of chillers. This is the initial phase in implementation of the company's investment plan aiming at replacing old and energy inefficient equipment. The new chiller compressors are of screw type equipped with head pressure floating, electronic expansion valve, and adiabatic cooling, a technology rarely used in Morocco.

The investment will reduce specific energy consumption by 22.5% and improve the storage capacity of the company.



THE COMPANY

SME
Production of Citrus products
Location – Taroudant, Morocco



INVESTMENTS

693 746 Euros
Chillers
Compressors
Head pressure floating
Electronic expansion valve



PROJECT GOALS

Reduction of energy consumption
Improvement of cold storage capacity



RESULTS

Energy savings: 261 MWh/year
% Energy savings: 22.5%
Reduction in CO2 emissions: 73 TCO2e/year
IRR: 31%
SPBP: 3 years