



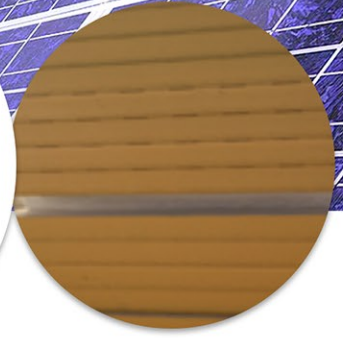
SUCCESS STORY

MODERNIZATION AND EXPANSION OF A COLD STORAGE FACILITY FOR RURAL FARMERS

Aware of its energy efficiency and competitiveness challenges in the face of rising electrical prices, Frigo Ennaser, a company specializing in agricultural produce cold storage, specifically potatoes and apples, plans to modernize and extend its cold storage facility to lower costs and reduce waste.

The company intends to invest in six cold chambers with a total area of 1,254 m² for produce storage. The company approached MorSEFF for confirmation of the efficiency of its new equipment and to ensure the improved climate control will reduce energy consumption and avoid waste. The investment in five new generation semi-hermetic compressors combined with overheating regulation via electronic expansion valves will allow more precise adjustment which will lower energy consumption by 36 % and greenhouse gas emissions by 156.6 TCO₂e/year.

Frigo Ennaser investment will both reduce the storage costs and generate a better profitability via decreased specific energy consumption. This will provide a cost-effective cold storage solution to Moroccan agricultural producers, helping them avoid wastage in the value chain.



THE COMPANY

Industry – Agro-industry
Location – El Gara, Morocco



INVESTMENTS

MAD 4.7 million (of MAD 17 million total)
6 cold storage chambers



PROJECT GOALS

Modernization of the facility
Improving profitability
Energy efficiency



RESULTS

Energy savings: 250 000 kWh/year
% Energy savings: 36 %
Reduction in CO₂ emissions: 156.6 TCO₂e/year
IRR: 17.1 %
SPBP: 5.89 years

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