



SUCCESS STORY

MODERNIZATION AND EXPANTION OF AN OLIVE-POMACE OIL EXTRACTION UNIT

Olive producer Domaine El Hamd desired to capitalize on MorSEFF to innovate and invest in energy efficient equipment both to modernize and extend the capacity of its olive-pomace oil extraction unit. This investment aims to increase processing capacity of the fresh olive-pomace from 800 to 1,300 tons/day while reducing energy consumption.

The project consists of the installation of a hot gas generator, a three-pass rotary dryer, a water tube boiler, four vertical extractors, and a distillation unit. The hot gas generator and the water tube boiler enable energy generation from the waste by-product of olive-pomace production. The three-pass rotary dryer and its control system reduce consumption of spent olive-pomace from the hot gas generator, stabilize product quality and reduce condensate.

Thanks to MorSEFF technical guidance, this investment allowed the company to reduce its specific energy consumption by 37.6 % and to improve its productivity. The payback period of this investment is projected to be 4.8 years.



THE COMPANY

Agro-industry
Location – Meknes, Morocco



INVESTMENTS

MAD 25 250 000
Hot gas generator
Dryer
Boiler
Vertical extractors
Distillation unit



PROJECT GOALS

Modernization of the unit
Increase productivity
Energy efficiency



RESULTS

Energy savings: 22 111 MWh/year
% Energy savings: 37.6 %
IRR: 21.87 %
SPBP: 4.81 years

Developed by



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