



SUCCESS STORY

CONSTRUCTION OF A SCHOOL UNDER NEW BUILDING ENERGY EFFICIENCY STANDARDS

Historically, schools in Morocco have not integrated energy efficiency neither in the buildings construction requirements nor in the choice of equipment (water heating, air conditioning, and lighting). With rising energy costs, particularly electricity prices, keeping education accessible will require energy savings and improved comfort, as well as environmental performance and compliance with national standards.

A new private school in the regional industrial city of El Jadida, the International School, approached MorSEFF for support on the eco-conception of its new facility. MorSEFF provided technical guidance confirming cost-effective measures to improve energy performance in the building ranging from a selection of facade coating for insulation, double glazing on doors and windows, solar water heaters for hot water production, a solar PV system assisted by a heat of pump, efficient conditioning and LED lighting.

The energy efficiency investments of MAD 5.1 million will result in energy savings of 713 MWh/year or 71% with a project payback period of approximately 8 years. In addition, avoided greenhouse gas emissions are estimated at 453 TCO2e/year.



THE COMPANY

Education
Location – El Jadida, Morocco



INVESTMENTS

- Eligible Investment: MAD 5.1 million (of total MAD 28.7 million)
- Wall insulation
- Double glazing
- Solar panels
- Solar water heaters
- Air-conditioners
- LED lighting



PROJECT GOALS

- Compliance with building code
- Energy efficiency
- Renewable energy
- Reduction of GHG emissions



RESULTS

- Energy savings: 713 000 KWh/year
- % Energy savings: 71 %
- Reduction in CO2 emissions: 453 TCO2e/year
- IRR: 12 %
- SPBP: 8.14 years

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