



SUCCESS STORY

INSTALLATION OF SOLAR PANELS ON A COMMERCIAL BUILDING

JET ENERGY International (JEI), a subsidiary of Jet Contractors, is an engineering, procurement, and construction (EPC) company that specializes in the development and implementation of photovoltaic solutions for domestic, professional, industrial and agricultural use. JEI installs and operates photovoltaic plants using either photovoltaic (PV) or concentrator photovoltaic (CPV) technologies. The company also manufactures photovoltaic modules locally in Morocco through its PV manufacturing subsidiary. Facing increased domestic energy prices, including electricity, the company is investing to reduce its own energy bill. To achieve this, and enjoy clean, renewable energy, JEI launched a 12 million MAD project to install a photovoltaic plant on its building located in Skhirate, a seaside town between Rabat and Casablanca.

The solar installation is comprised of 2,772 PV panels installed on the roof of the building with a unit power of 250 Wc spread over an area of about 4,535 m² and 300 CPV sub-units with a unit power of 250 Wc placed on five identical trackers and spread over an area of 500 m². The total power of the plant is estimated to 833 kWc and the average annual energy production of the plant is estimated to 1.12 GWh. The GHG emissions avoided are estimated at 770 TCO₂equiv/year.



THE COMPANY

Service - EPC
Location - Skhirate, Morocco



INVESTMENTS

MAD 9.4 million (on total of MAD 12 million)
PV panels
CPV panels
Trackers



PROJECT GOALS

Electricity generation using renewable energy
Reduction of greenhouse gas emissions



RESULTS

RE production: 1 212 MWh/year
Reduction in CO₂ emissions: 769.7 TCO₂equiv/year
IRR: 5%
SPBP: 10.3 years