

4.5MW PV Photovoltaic Power Plant





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Italy has emerged as one of the leading countries in Europe when it comes to photovoltaic (PV) projects. With its favourable climate conditions and government incentives, Italy has seen significant growth in the PV sector, making it a major player in the global solar energy market.

One of the key factors contributing to Italy's success in the PV industry is its generous feed-in tariff (FIT) program. Introduced in 2004, the FIT program guarantees producers of solar energy a fixed price for their electricity over a 20-year period. This long-term contract has encouraged a large number of individuals and businesses to invest in PV projects, resulting in a remarkable increase in solar capacity in the country.

Italy's PV market has attracted attention due to its large-scale solar power plants. Several major projects have been completed, such as the Serre Persano solar power plant, which has a capacity of 54 MW, making it one of the largest PV installations in the country. Additionally, the Montalto di Castro solar power plant is one of Europe's largest solar farms, with a capacity of 84.2 MW.

Moreover, rooftop installations are also contributing significantly to Italy's PV sector. The government has implemented measures to promote the integration of PV panels in residential and commercial buildings. These measures include tax incentives, simplified permit procedures, and grants for energy efficiency renovations. As a result, many households and businesses have adopted solar energy, making Italy a leader in distributed PV generation.

Overview

Area: Prov. Cuneo, Piemonte, North of Italy

Suitable land surface: approximately 12ha

Rated power (AC): 4480 kWac

Peak power (DC): 4615 kWdc

Installation type: On the ground with mono axial tracker

DC/AC ratio: 0,97

Area: 6,83 ha

Average temperature: 11,44 °C

Energy yield: (year 1)

Specific production: 1689.5 kWh/kWp

Performance: Ratio 87.57 %

Total energy injected: 7,526 GWh Year

Energy yield: (25 year average)

Specific production: 1689.6 kWh/kWp

Energy yield: 182,5 GWh

Performance Ratio: 84.44%

Status: READY TO BUILD with in 2-3 months

Pricing

Total Land Price: 860,000 EUR

Project Price per MW: 130,000 EUR per MW (130,000 EUR per MW X 4480kWac)

EPC Development Cost: Approx. 750,000 EUR per MW X 4480kWac)

Extra Administrative Fees, Grid Connection, etc.: ND

Total PV Cost (Operational/Connected): 5,000,000 EUR

TARGET PRICE

EUR 5,000,000

BUSINESS TYPE

Renewable Energy

COUNTRY

Italy

BUSINESS ID

L#20240620

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