

4.20MW Italian PV Solar Photovoltaic Power Plant





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Sardegna, an island located in the Mediterranean Sea, has been making strides in the field of renewable energy, particularly in photovoltaic projects. With its abundant sunshine and commitment to sustainability, Sardegna has become a hotbed for solar energy development.

One of the largest photovoltaic projects in Sardegna is the Serre de Laconi Solar Park. This solar park covers an area of 20 hectares and has a capacity of 20 megawatts. It is located in the province of Oristano and has been operational since 2010. The park consists of thousands of solar panels that harness the sun's energy to generate electricity. The electricity produced is then supplied to the grid, helping reduce the island's dependence on fossil fuels.

Another notable photovoltaic project in Sardegna is the La Maddalena Solar Park. This solar park is located on the island of La Maddalena and has a capacity of 10 megawatts. It was inaugurated in 2015 and consists of over 40,000 solar panels. The park not only generates clean energy but also serves as an educational center for visitors to learn about renewable energy and sustainability.

In addition to these large-scale projects, there are also numerous smaller photovoltaic installations throughout Sardegna. These installations can be found on rooftops, carports, and even in agricultural fields. These smaller projects play a crucial role in decentralizing energy production and increasing the island's energy independence.

The adoption of photovoltaic projects in Sardegna has been driven by various factors. The island's high electricity prices, abundant sunshine, and commitment to sustainability have all played a role in promoting solar energy development. Furthermore, the government's incentives and subsidies for renewable energy projects have encouraged both individuals and businesses to invest in solar power.

One of the main challenges facing photovoltaic projects in Sardegna is the intermittency of solar energy. As the sun does not shine 24/7, solar power generation fluctuates throughout the day. To address this issue, energy storage systems such as batteries are being increasingly used to store excess energy generated during sunny days for use during periods of low sunlight.

Keypoints

PV-1

Municipality: TBA

Suitable land surface: approximately 10ha

Rated power (AC): 4,550.0 kWac

Peak power (DC): 4,968.6 kWdc

Installation type: On the ground with mono axial tracker

Solar resource Global horizontal irradiation: 3,066 kWh/m²

Energy yield: (year 1)

Specific production: 2276 kWh/kWp

Performance: Ratio 85.94 %

Total energy injected: 10.3 GWh YEAR

Construction cost/MW €750,000.00/MW

Connection times and costs 600 working days / €174,299.71

PV-2

GROSS REVENUE

TBA

EBITDA

TBA

BUSINESS TYPE

Renewable Energy

COUNTRY

Italy

BUSINESS ID

L#20240647

Municipality: TBA

Suitable land surface: approximately 9 ha

Rated power (AC): 4,450.0 kWac

Peak power (DC): 5,314.4 kWdc

Installation type: On the ground with mono axial tracker

Solar resource Global horizontal irradiation: 2561.3 kWh/m²

Energy yield: (year 1)

Specific production: 2017.65 kWh/kWp

Performance: Ratio 85.94 %

Total energy injected: 9 GWh YEAR

Construction cost/MW €750,000.00/MW

Connection times and costs 720 working days / €299,638.15

Pricing

Total surface area: approximately 10ha: Value of the land €690,000.00 (Land 1 (Solar Belt Area))

Total surface area: approximately 9 ha: Value of the land €790,000.00 (Land 2 (Industrial))

Purchase of "Ready to Built" design: Value at MWac including commissions
€140,000.00/MWac

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