

Case Study

Setta PV Power Station in Pernambuco, Brazil



PROJECT OVERVIEW

- Location: Pernambuco, Brazil
- Completed: 2020
- Owner: Setta
- Designer and Developer: Vattenfall
- System Size: 1.5MW
- Number of Panels: 4546 pieces
- Product: STP 330 - 24/Vfw

BENEFITS

- The project is expected to generate 2.4GW•H of electricity on average annually, equivalent to a reduction of carbon dioxide emissions of 1.485 tons. In addition, with the flourish of the PV industry, electricity costs can be reduced by 30% when local users choose the clean electricity generated by the PV station via the PPA (Power Purchase Agreement).

"We're very delighted for the first cooperation with Suntech in the Pernambuco, Suntech trustworthy product quality and steady performance contributed to developing more projects"

Mr. Joao Pontual, Sales Director of Setta Energia

Suntech Supply Setta PV Power Station in Brazil and connect to the Grid

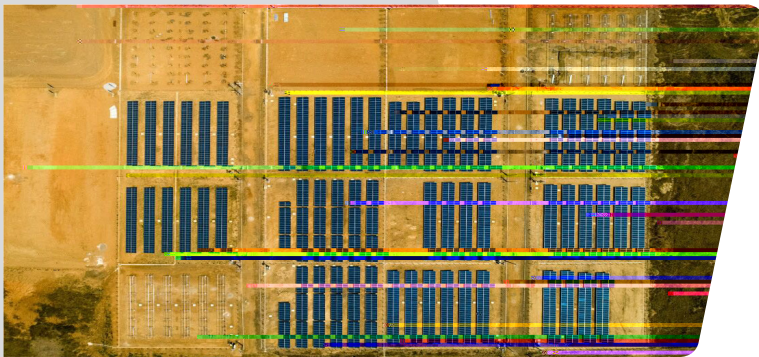
On April 28 2020, the Setta PV Power Station in Pernambuco, Brazil was on-grid successfully. The project, constructed in the desert exposed to high temperature and intense irradiation, all adopted Suntech high-efficiency polycrystalline modules.

With a capacity of 1.5MW, a total of 4,546 pieces of Suntech high-efficiency polycrystalline modules have been installed in the project that covers over 1 hectare. The project is expected to generate 2.4GW•H of electricity on average annually, equivalent to a reduction of carbon dioxide emissions of 1.485 tons. In addition, with the flourish of the PV industry, electricity costs can be reduced by 30% when local users choose the clean electricity generated by the PV station via the PPA (Power Purchase Agreement).

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Closed to the equator, the average annual temperature in Pernambuco exceeds 30°C, the lack of rainfall has limited the development of Brazil's mature hydropower technologies in the state. However, with outstanding irradiation conditions, Pernambuco has an annual amount of solar radiation of over 2,264kWh/m², which creates favorable conditions for the growth of the PV industry. It's worth mentioning that Suntech products have excellent degradation resistance at high temperature, which can deliver more electric yields in case of good solar radiation, effectively reducing the LCOE and providing more benefits for customers.

"We're very delighted for the first cooperation with Suntech in the Pernambuco, Suntech trustworthy product quality and steady performance contributed to developing more projects", said Mr. Joao Pontual, Sales Director of Setta Energia.



In recent years, Suntech has provided product for multiple PV projects in Brazil. In Minas Gerais State, the Janauba PV station has been in grid-connected operation, and delivers actual power generation higher than expected. In Brasilia, the WTS PV station is currently running charmingly. In Bahia State, the clean power from the Atlas PV station project is being transmitted to innumerable homes.

About Suntech:

Since the inception in 2001, Suntech has always valued the development of emerging markets worldwide. In the future, Suntech will remain committed to the "Global & Local" market strategy, and assist in the rapid growth of clean energy in Brazil and the America, thus creating more possibilities for sustainable energy development.