

Asia's largest private sector solar PPA 30MWp solar farm in Tamil Nadu

Quick Facts

- ▶ Location: Tamil Nadu, India
- ▶ Capacity: 30 MW
- ▶ Type of system: Polycrystalline Silicon
- ▶ Type of modules: Polycrystalline
- ▶ Carbon dioxide abated: 38,500 tons annually
- ▶ Date of commissioning: March, 2017

Overview

CleanMax, India's largest provider of solar power, inaugurated a 30 MW solar farm in Dindigul, Tamil Nadu in March 2017. The solar plant is spread across an area of 142 acres and supplies energy to India's largest data centre company. Being 'Asia's largest private sector solar PPA', this 30 MW solar farm will contribute approximately 30% of the power requirement at the largest data centre in Chennai. CleanMax vision was to develop the farm with the best equipment including trackers, inverters, photovoltaic and power distribution technology. Most critical aspect of the project was to select the right technologies and make a significant differentiation by having highest generation and lowest footprint of MV distribution.



Challenges

- ▶ Unfavourable and uncommon onsite conditions such as irregularly shaped land parcels & strong wind
- ▶ Environmental and geotechnical problems such as high levels of airborne dust and sloped terrain

Solutions

▶ **Performance above expectations**

When compared to the simulations, the plant is performing 10% more than the expectations. We chose NEXTracker for its advanced technology, performance and reliability of its single-axis tracker system as well as its active local support team for establishing a solar farm in Eluvanampatti. The plant is the first deployment in India of high-efficiency Solar Ware® Samurai inverters by Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC).

As the trackers feature fewer foundations and assembly points, it provided us the flexibility needed to construct solar power plant under challenging conditions. We aim to provide clean energy solutions with innovative ways to improve plant performance.

Automatic switch on logic has been implemented first time in the world for any solar farm to reduce stress on the T&D system and power transformer. This project is a benchmark of good quality engineering, procurement, and installation.

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Highlights

- ▶ 30 MW installation for India's largest data centre company
- ▶ The 93,750 polycrystalline PV modules will track the sun for maximum power generation using advanced NX Horizon single-axis trackers
- ▶ The plant is the first deployment in India of high-efficiency Solar Ware® Samurai inverters by Toshiba Mitsubishi-Electric Industrial Systems Corporation (TMEIC)

About CleanMax



CleanMax is the sustainability partner for India's leading corporates. Headquartered in Mumbai, we are the largest provider of solar power to commercial and industrial customers.

The company develops projects on turnkey basis, providing cheaper-than-grid solar power without any upfront investment from its customers. With a highly skilled in-house team, CleanMax operates across India, Middle East and South East Asia.

Our track record with India's top companies has made CleanMax a preferred partner across sectors such as Automotive, Pharmaceuticals, Food & Beverages, Information Technology, Education and many other industries. We also partner with some of India's leading government institutions and top universities.

Disclaimer:

The document contains information based on project undertaken by Clean Max Enviro Energy Solutions Pvt. Ltd. While due care has been taken to ensure the accuracy and completeness of the information supplied herein, Clean Max Enviro Energy Solutions Pvt. Ltd. cannot be held responsible for any errors or omissions.

Website:

www.cleanmax.com