



Phoebus Solar Tech

PHOEBUS SOLAR TECH PROFILE

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INTRODUCTION- SOLAR PHOTOVOLTIC ENERGY

The depletion of conventional resources on a worldwide basis has necessitated an urgent search for alternative energy sources to meet up the present load demands. Solar energy is a clean, inexhaustible and environment- friendly potential resource among all renewable energy sources. But in the present scenario, there is a need of continuous supply of energy, which cannot be full filled alone by the grid. Therefore, in order to meet the load demand and increase the power generation, solar and other conventional conversion units are now being implemented as a Grid connected energy systems.

Photovoltaic offer the consumers the ability to generate electricity in a clean, quiet and reliable way. Photovoltaic systems are comprised of photovoltaic cells, devices that converted light energy directly into electricity. It is anticipated that photovoltaic systems will experience an enormous increase in the decades to come. However, a successful integration of solar energy technologies into the existing energy structure depends also on a detailed knowledge of the solar resource. But to note it is essential to state the amount of literature on solar energy, the solar energy system and PV grid connected system is enormous. Grid interconnection of photovoltaic (PV) power generation system has the advantage of more effective utilization of generated power. However, the technical requirements from both the utility power system grid side and the PV system side need to be satisfied to ensure the safety of the PV installer and the reliability of the utility grid. Every 15 minutes the amount of energy from the sun that strikes the EARTH is sufficient enough to supply the energy requirement of the whole world for one year. To produce Green Energy from natural resources and processes that are replenished constantly in its various forms which are considered to be environment friendly, non-polluting and help reduce the impacts of conventional electricity generation thus increasing the nation's energy independence.

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To make Solar Energy, a complementary clean alternative source of energy, Government of India announced Jawaharlal Nehru National Solar Mission (JNNSM) last year. The mission is focused on the promotion of Solar Energy at grass root level to Utility Scale Mega Projects. The entire mission is under Ministry of New & Renewable Energy & in association of Ministry of Power & Energy. The progress of the mission at every stage is over-viewed by Prime-Minister's Office (PMO). This clearly indicates the government's commitment & seriousness towards Solar Energy development in India.

ABOUT US

PHOEBUS SOLAR TECH has been established as a reputed EPC & Service provider in Infrastructure & Construction Industry and Solar EPC, PST is specialize in Solar Power Operation & we are solar EPC service Provider Company.

PST core businesses include solar farm EPC, Installation & commissioning, operation and services .PST owns high-class technical human resources as well as management team.

PST aims to be a world class clean and renewable energy company, with the social mission of providing high quality clean energy and striving for the harmony between human development and natural environment.

Our vision is to make India's economic development energy-efficient. In this strategy, the sun occupies centre-stage, as it should, being literally the original source of all energy. We will pool our scientific, technical and managerial talents, with sufficient financial resources, to develop solar energy as a source of abundant energy to power our economy and to transform the lives of our people. Our success in this endeavor will change the face of India.

So as the name suggest the company's main aim is to improvise the solar power generation in India. The company is going to establish Solar Power Plants across India. It would also like to invest in Rooftop Projects. The company is on a mission to create a portfolio of 10 MW of Solar Energy Generation.

OUR MISSION

India, a rapidly growing economy with more than 1 billion people, is facing a huge energy demand. The country stands fifth in the world in the production and consumption of electricity. The electricity production has expanded over the years but we cannot deny the fact that the population of the country is also expanding. The power produced in the country is mostly from coal (53%) and it is predicted that country's coal reserves won't last beyond 2040-50. More than 72% population living in villages and half of the villages remain without electricity. It's high time

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that our country should concentrate more on energy efficiency, conservation and renewable energy.

OUR VISION

Our planet is our legacy, and there's only one. The extensive use of fossil fuel energy has caused irreversible damage. The more we wait, the worse it will get. Indian Coast receives a practically unlimited amount of sunlight- why wouldn't we harness it to do our part to protect the environment Together, let's choose a more responsible way to power our lives: Let's go solar.

SOLAR ENERGY IN INDIA

India has tremendous scope of generating solar energy. The geographical location of the country stands to its benefit for generating solar energy. The reason being India is a tropical country and it receives solar radiation almost throughout the year, which amounts to 3,000 hours of sunshine. This is equal to more than 5,000 trillion kWh. Almost all parts of India receive 4-7 kWh of solar radiation per sq meters. This is equivalent to 2,300–3,200 sunshine hours per year. States like New Delhi, Andhra Pradesh, Bihar, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan, and West Bengal have great potential for tapping solar energy due to their location. Since majority of the population lives in rural areas, there is much scope for solar energy being promoted in these areas. Use of solar energy can reduce the use of firewood and dung cakes by rural household.

ADVANTAGES OF SOLAR ENERGY IN INDIA

Some of the advantages of solar energy which makes it all the more suitable for India are as follows:

1. This is an inexhaustible source of energy and the best replacement to other non-renewable energies in India.
2. Solar energy is environment friendly. When in use, it does not release CO₂ and other gases which pollute the air. Hence it is very suitable for India, India being one of the most polluted countries of the world.
3. Solar power is inexhaustible. In energy deficient country like India, where power generation is costly, solar energy is the best alternate means of power generation.

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4. You don't need a power or gas grid to get solar energy. A solar energy system can be installed anywhere. Solar panels can be easily placed in houses. Hence, it is quite inexpensive compared to other sources of energy.

PROJECT DETAILS – (Roof Top Projects Complete Commissioning)

SL NO	NAME OF PROJECTS	PLANT SIZE	YEAR OF COMMISSIONING
1	Vaidik Village	10 KW	2021
2	Praxes School	35 Kw	2021
3	Dong Fung Electric (I) Pvt Ltd	20 Kw	2021
4	Kalimata Cold Storage Pvt. Ltd	100 Kw	2021
5	Khardah Kolkata	3.2 Kw	2021
6	Salt Lake Kolkata	4 Kw	2021

ON COMING PROJECTS

1	650 Kw
2	60 Kw X 2 Projects
3	120 Kw x 2 Projects
4	500 Kw

SCOPE Engineering, Procurement & Construction (EPC)

- Engineering, Design & Consultancy
- Solar Equipments Procurements & Supply
- Structural & Civil Planning
- Installation & Commissioning of Solar System
- services to improve monitoring and maintenance
- Optimization services to achieve desired performance levels

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- Replacement services of existing material, design, engineering and auxiliary services with new ones to increase overall life span of the solar plant.

VIKRAM, TRINA, JA, JINCO, IVVO & LONGI PV MODULES SUPPLIER

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AUTHOUISED EPC PARTNER WITH **VIKRAM** SOLAR LIMITED

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