

WORD ABOUT SHARVIL.....

Sharvil Power and Agro Technologies LLP was formed in June 2017 by Lt Col (Dr) Tushar Ghate after serving the nation for 22 years. A new start up that is primarily executing system integration and installation based projects and working in the fields of solar power, renewable energy and various electrical systems.

Since the inception and within span of five years, we have successfully installed and commissioned more than 95 On-Grid / Off Grid Projects with cumulative capacity exceeding 1 MW.

Word about Solar Systems

In accordance with existing Central and State Govt policies and schemes on solar energy, electricity can be generated using solar energy in following ways:-

- Rooftop On Grid Solar System (Upto1 MW). The system is installed on roof top. The electricity generated is fed to DISCOM grid and the same is imported as per the requirement of consumer. The import export is UNIT based.
- Ground Mounted On Grid Solar Systems. Same as above, except the system is installed on ground in the premise of the area owned by the consumer
- Open Access Solar Systems (More than 1 MW). The electricity is generated by eligible producer, fed to the nearest substation and DISCOM pays the producer for the electrical units generated
- Zero Export Solar Systems. The electricity is generated using solar system and utilised by the consumer BEHIND the meter. No import / export is involved.
- Captive Solar Energy (Energy Parks) (More than 1 MW). The electricity is produced using solar system by the Third Party at area away from the consumer. With a tri-party agreement between Producer, Consumer and DISCOM, The consumer purchases the required units from the producer and utilises the same at his work site after paying wheeling and transmission charges to DISCOM.

Technical Details

Solar PV panels, solar inverter (to convert power from DC to AC, AC and DC distribution box along with spike protection and MCB, Lightening conductor and earthing as safety measures are important parts of the system. The panel structure can be installed on ground or can be raised in order to make available the space below for any other purpose like agriculture, dairy, ware house etc.

One KW solar system generates an average of 4 units (KWH) during a day time. 6-7 hours of sunshine is considered for generation of power. During monsoon, the power generation is reduced by 20-30 % due to cloudy weather. However, during clear and sunny days (especially in summers), the same system generates more power than rated capacity. With this calculation, an average power generation

of 4 units per KW per days is achieved in one year cycle. For calculation purpose, 330 days of the year are considered. Since there are no moving parts and the technology is proven and ruggedized, life of the system is generally 20 to 25 years. The solar system is orientated towards South direction with a tilt depending upon the latitude of the location.

Apart from saving the money, the system also helps in saving Carbon emission in a great way. Per unit generated saves approximately 800 grams of Carbon emission.

We, *Team Sharvil* are a strong and committed workforce consistently working towards utmost satisfaction of the customer with ethos based upon quality and economy. We are proud to share that we have installed these systems in Pune, Nagar, Baramati, Phaltan and in Goa during past five years with per system capacities ranging from 2 KW to 350 KW

Glimpse of Executed Projects



350 KW Ground Mounted On Grid System at ARISTA LLP, Phaltan



75 KW Roof Top System-Pioneer Calicos Pvt Limited, Baramati



120 KW Rooftop System-Mahila Seva Mandal Near MES College, Pune



28 KW Rooftop System-Mr Rahul Phatak, Paud Road Pune



15 KW Rooftop System-Pratham Technologies, Sinhgad Road, Pune



60 KW Rooftop Composite System-Pioneer Pvt Limited, Pirangut (Photo-1)



60 KW Rooftop Composite System-Pioneer Pvt Limited, Pirangut (Photo-2)



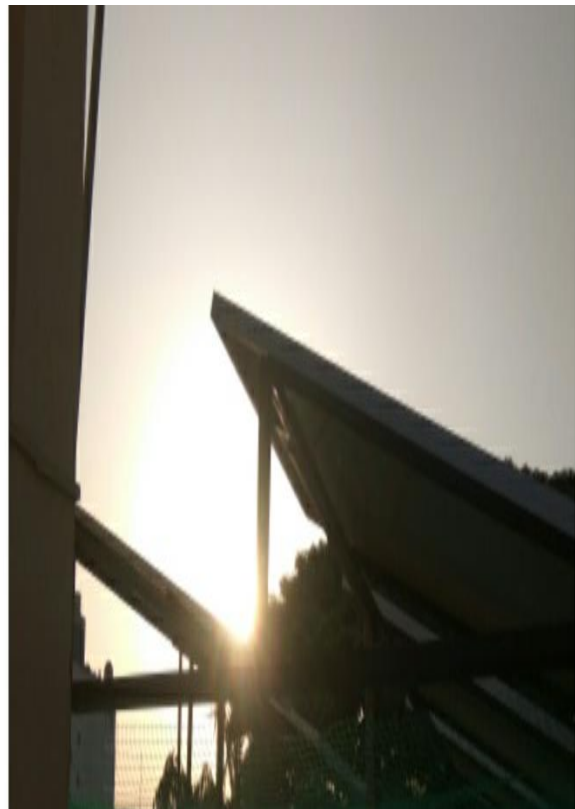
2 / 3 / 5 KW Rooftop Systems-Pune



72 KW Rooftop System-Pioneer Calicos Pvt Limited, Baramati (Photo-1)



40 KW Rooftop System-Desai Bandhu, Kothrud, Pune



2 / 3 / 5 KW Rooftop System-Pune



9 KW Rooftop System-Mr Sachin Abhyankar, Deccan Gymkhana,Pune



5KW Rooftop System, Mr avinash Jhaveri, Shivaji NagarPune



5 KW Rooftop System-Mr Abhijeet Rajwade, Prabhat Road, Pune