

The Emerging Technology of Solar Power

by Anand Kumar Ashodhiya - Saturday, September 29, 2018

<http://dayrisesolar.com/the-emerging-technology-of-solar-power/>

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Presently, the best quality solar panels can perform at peak efficiency of about 15 to 17%. This is due to the fact that our current solar technology does not allow the solar panels to use all available wavelengths of light. For example, in a ray of sunlight, there are many different wavelengths IV curves. Many of these we can't even see with our naked eye. The same goes for solar panels.

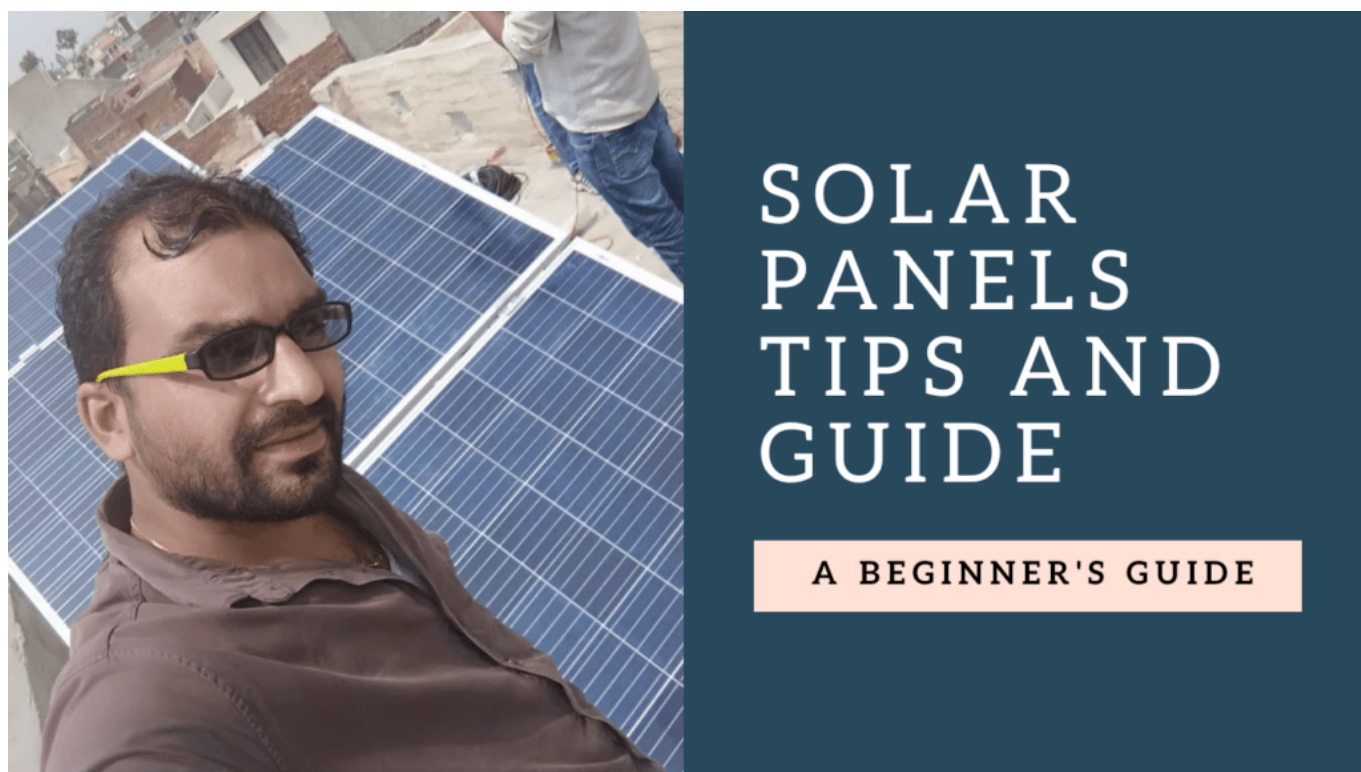
[Sunfuel Technologies LLP](#), an Indian based solar panel manufacturing company, has been utilizing "PERC" solar cell that can multiply the wavelengths of light to produce much more solar power even on a smaller solar generating system. While Sunfuel is keeping a tight hold on the technology that allows this advanced solar energy, they predict their new panels will produce more solar power than any other brand available in India as per the size of solar power plant and ideal sunlight conditions. A 5 kWp [Grid Connected Rooftop Solar Power Plant](#) with [Sunfuel Solar](#) Panels may equate to an electric bill of around Rupees 5 to 6 thousand per month for an average house hold by producing 20-25 units a day! This beats what most Indians pay now- well over Rupees 10 to 12 Thousand a month for electricity. Better yet, Sunfuel's new panels convert a whopping 17% of sunlight to usable solar energy! This equates the industry standard and so-called top brands of India.

The [University at Tel Aviv](#) is also making enormous developments in solar panel technology. Scientists there have scrapped the idea of using semiconductors within their solar cells. Instead, they have genetically engineered "proteins using photosynthesis for production of electrical energy". [Commercial manufacturing](#) of such a methodology is several years down the lane, but these panels would cost much less than the conservative silicone and could produce efficiency around 25%. This [makes](#) these solar panels very attractive to third world poorer countries that want to go solar but cannot afford conventional silicone solar panels.

Another promising technological progression is the upsurge in efficiency of thin-film solar panels. These thin film panels use 40% less silicone than conservative poly-crystalline solar panels, and are much less expensive. Unfortunately, they also have less efficiency. By the end of 2018, some scientists are estimating they will be able to produce thin film solar cells with more efficiency. This makes them more comparable to conventional solar panels. Also, more people will be able to buy these less inexpensive panels.

Further progress in solar panel technology is in the battery systems which you can use alongside your solar panels. Every year, new batteries are coming up in the market that last longer and store more energy than ever before. This increases the environmental friendliness of solar technology so that solar batteries don't have to be thrown out or recycled as often.

Solar energy may seem expensive at first instance being upfront cost, but the long-term benefits are priceless. Where else can you get 25 years of reliable energy constantly and consistently which might cost very cheaper than the electricity provided by your DISCOM utility? Certainly you may not get such reduced tariff from your DISCOM utility company. Solar energy is reliable, has zero carbon emissions and easily pays for itself within 4-5 years of purchasing as Return of Investment (ROI). For the future of the world's electric supply, residential solar power systems may be the best answer to a limitless resource: the Sun.



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In this Era of new and the emerging technology of solar power, the Solar Panels are built to endure and perform for decades. Service policy of most of the Solar Panel manufacturing Companies is aimed at

ensuring proper and timely services to its customers across the country. Sunfuel is pioneer in manufacturing as well as after sale service with unmatched quality in the solar industry in India. Sunfuel has emerged as leader in the emerging technology of solar power. It is committed to achieving complete customer satisfaction with excellence in service quality and support. The quality of service and service accessibility provided by the Sunfuel are steadily improving with the setting up of new branches and service centre's like [DayRise Solar Enerdy Pvt Ltd](#) at Sonipat, Haryana. Thanks to the growth strategies being adopted by the company from time to time and the emerging technology of solar power.

Its most eminent and reputed Clientele speaks high volume of this enormously growing Solar Manufacturing Company, for instance:-

- **IIT Mandi - Himachal Pradesh**
- **Reserve Bank of [India - Jaipur](#) & Jammu**
- **Cygni - IIT Madras JV - Assam & Hyderabad**
- **Assam Rifles - North East India**
- **Kokrajhar MCD - Assam**
- **Bharat Petroleum Corporation Ltd - Haryana**
- **J&K Renewable Energy Development Agency - J&K**
- **Haryana Renewable Energy Development Agency - Haryana**
- **Solar Universe India - New Delhi**
- **Sri Vinagya Vidhyalaya - Coimbatore, Tamilnadu**
- **Holy Family School EverShine - Vasai, Maharashtra**
- **Aditya Solar System - Kolhapur Maharashtra**

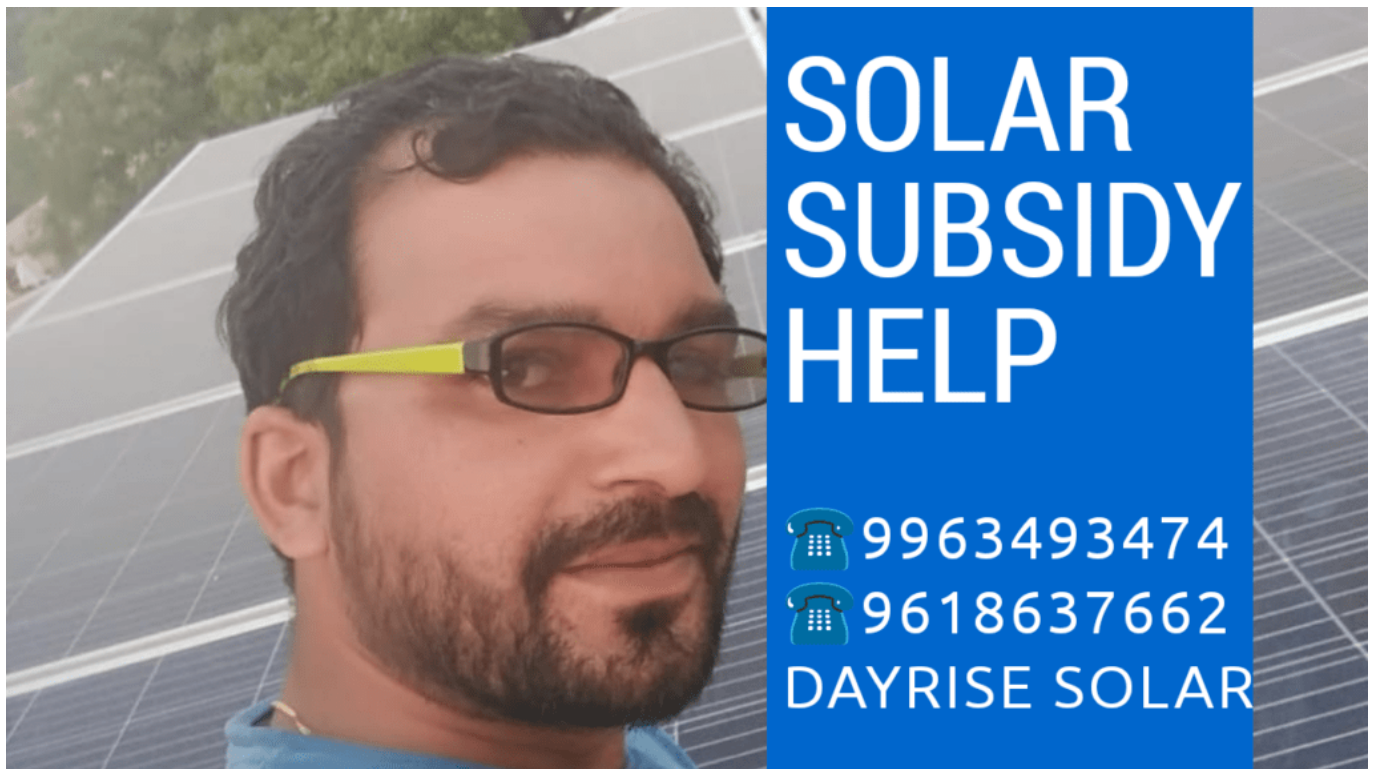
Sunfuel Technologies LLP, manufacture solar PV modules with the highest quality & unmatched reliability with help of the emerging technology of solar power. Sunfuel makes clean energy available to homeowners, businesses, commercial buildings, schools, non-profits and government organizations at very competitive prices. Sunfuel has a Global team of professionals with expertise in executing solar power manufacturing and distribution while making its rivals envy of the emerging technology of solar power. The Company delivers perfection in every step from designing, engineering, manufacturing, supply, and installation to maintenance of solar panel PV systems ranging from few Watts to Megawatts as per International standards (IEC, MNRE, ISO, NISE etc.)

Salient features of Sunfuel's Solar Panels is :-



- Positive Power Tolerance
- 5 Bus-bar Technology
- High Performance
- PID Resistant
- Low Light Performance
- High Load Resistant
- Electroluminescence Testing
- 10 years product warranty
- 25 years linear performance warranty
- Solar PV Modules with 60 to 72 Cells ranging from 150 to 345 Watt

Consider selecting and approaching thoroughly professional and skilled team of [DayRise Solar Energy Pvt Ltd](#) for assessing and analyzing your electrical load for installation of [Solar Energy Solar Panel Power Plant System](#) at your home, office, mall, school or industry.

Contact DayRise Solar team every time whenever you need to know “The Emerging Technology of Solar Power” while you plan to install Solar Energy Solar Panel Power Plant System or buy Sunfuel’s solar panels in Sonipat, Haryana, India. Also to get help and full Procedure to Avail [Solar Subsidy in India](#) for Grid Connected Rooftop Solar Power Plant, you may like to contact extremely skilled and expert professionals of DayRise Solar by way of its Website's contact Page at DAYRISESOLAR.COM or by email alternately for any question associated to Solar Energy, Solar Subsidy, Solar power, solar products, design, installation and commissioning of On-Grid / Off-Grid Rooftop / Ground Mounted Solar Power Plants throughout Haryana and Delhi NCR. Qualified skilled team of DayRise Solar might help you in processing of subsidy utility, bi-directional meter utility and processing / uploading of all related documents to Subsidy Regulation Authority / DISCOM Utility.



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