



Let there be Light

NEWSLETTER

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Mr. Arun Lakhani
Director



Director's Message

Dear Friends,

In every business there are multiple entities interacting with each other. In an industry like manufacturing, it becomes essential that we place utmost importance on Safety. The Enpee Group has grown with its people and resources by continuously implementing multiple safety measures and practices in the work place. We have invested extensively in state-of-the-art machinery and clean room facilities in both our plants. These ensure the highest quality of products, along with a healthy and secure environment for our employees to work in.

Safety is a necessity for all the departments of any company. So, as an extension, we apply safety oriented practices across departments such as R&D, Storage, Logistics, etc. Our state-of-the-art fully automated storage system is one such example of this.

Apart from the architecture, we have protocols and practices implemented to ensure zero or as close to zero accidents as possible. These protocols involve activities such as routine fire drills so that people know how to respond to emergencies in the plant.

We believe in empowering our employees with the right knowledge about the safe usage of equipment and therefore conduct regular trainings for our team.

I would like to thank our team for providing their cooperation in making RenewSys a safe and healthy environment to work in.

We at RenewSys truly believe that Safety and Health are the cornerstones for a sustainable business, and we promise our team and associates around the globe, that our brand in the industry will continue to be known not only for our world class products, but also for our safe operational & business practices.

Snippets from Around the Globe

3rd Solar Africa Expo, Tanzania



Aug. 16 – 18, 2017 The Tanzanian solar energy sector has been growing fast in recent years. RenewSys India is one of the key solar equipment suppliers in the African continent and the **3rd Solar Africa Expo** was the right opportunity to exhibit our excellent products in the market and interact with potential buyers.

Solar Power International, USA



Sep. 11 – 13, 2017 USA stands second in the list of top 10 solar power producing countries in the world. **Solar Power International** is one of the most esteemed events of the country and attracts buyers and sellers from around the globe. India has been a preferred supplier of solar equipment for USA. RenewSys was one of the prime exhibitors at the event.

REI Noida, India



Sep. 20 – 22, 2017 Success in the homeland was cherished, as RenewSys was one of the major exhibitors in India's biggest solar exhibition i.e. **REI Noida**. This was the third year that RenewSys participated at the Expo and along with displaying the regular products, RenewSys also exhibited our latest '**Galactic**' Series of PV modules, strategically designed for higher output. (Read more on page 3).

Dubai Solar Show, UAE



Oct. 23 – 25, 2017 UAE is one of the **top ten** crude oil producing countries in the world. Their gradual shift to solar has successfully led to the building of a global green economy model based on environmental sustainability and clean energy. **The Dubai Solar Show** managed to provide an excellent platform to quality suppliers of solar like RenewSys to interact with potential buyers.

RenewSys Wins!



Team RenewSys during the Award Ceremony

'31st Chapter - National Convention on Quality Concepts' was organized by '**Quality Circle Forum of India**'. A record number of 197 Quality Circles participated in the convention at Hyderabad, on Sep. 11-12, 2017. All the three Quality Circles presented by RenewSys Hyderabad won the '**Gold Category**'.

The Mysuru Convention was organized on Dec. 3, 2017 where RenewSys Bengaluru won the '**Par Excellence**' award.

We congratulate the participants for making RenewSys a winner in these awards.

RenewSys Learns - Trainings

RenewSys launched its first soft- skills training program '**Synergize**' in association with **MindSpeak**, a brainchild of Dr. Deepti Mankad. The training was aimed at the personality development of the trainees as well as to make them more responsive towards their professional surroundings. The course was designed in an all-inclusive manner which encouraged inter-departmental interaction and thus, teaching the intricacies of human behaviour within the organisation. The two sessions were conducted during Aug. 17-18, 2017 & Oct. 12-14, 2017.

One of its kind R&D Lab in India

Since its inception, RenewSys has been offering the best quality products on a consistent basis. To ensure that we continue to deliver on this promise, state-of-the-art R&D labs have been established at both our plants. The Bengaluru facility specialises in **Polymer Research & Testing** and the lab at Hyderabad concentrates on **PV Cells & PV Modules**.



Climatic Chambers at the RenewSys - Hyderabad Facility

The in-house reliability lab at Hyderabad is **at par with global third party certifying labs** and is capable of testing modules in climatic and environmental conditions up to **3 times** of those required for international certifications. It consists of 7 climatic chambers and is managed by a talented and diligent R&D team. The in-house R&D labs not only facilitate control over quality, but also pave the way for transparency and help us gain the trust of our partners and associates.

RenewSys now listed with DEWA

The Dubai Electricity & Water Authority has listed RenewSys, and also awarded certifications on Sand Abrasion and Salt Mist Corrosion.



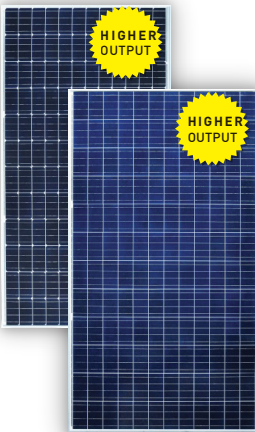
New Product Launch

I. 'Galactic' Series PV Modules

RenewSys launches the '**Galactic**' Series of PV Modules which includes **340 Wp & 365 Wp** Multi Crystalline and **355 Wp & 380 Wp** Mono Crystalline PV Modules. These panels have been designed to utilize a smaller installation space as compared to standard panels, to obtain a higher energy output.

The '**Galactic**' Series modules are built to reduce the hot-spot effect, ensuring the longevity of the modules. All the variants are in compliance with the internationally recognised IEC standards.

The 365 Wp & 380 Wp Modules are made using **PERC** Solar PV cells. PERC cells have higher energy density per square foot as they are designed to improve light capture near the rear surface of the solar cell, and perform well under low light and high temperature conditions.



II. 'A-125 WN 1' Non-Fluoro Backsheet



RenewSys has been a market leader for all the variants of Backsheets. We recently added '**A - 125 WN1**' Non-Fluoro Backsheet to our portfolio of 1000 VDC system voltage Backsheets.

This 'thermally integrated' inseparable layer of Backsheet qualifies for the new IEC standards, which require a minimum of **300 micron thickness**. This Backsheet is designed for an **improved scratch & delamination resistance**. UL certification is in process and the product is commercially available.

CSR Initiative



On Oct. 12, 2017, **World Sight Day**, RenewSys in partnership with **Mission for Vision** launched the first vision centre at Simga (District of Balodabazar), in the vicinity of Raipur, Chhattisgarh. The initiative with MGM Eye Institute was aimed at enabling access to safe, affordable and reliable eye care to the underserved communities in Chhattisgarh.

The project aims to screen **14,000 people** in the first year of operations through the Vision centre at Simga. Around 1,000 people would be directly served by way of treating

various eye ailments through surgeries and nearly 1,700 spectacles are expected to be dispensed to tackle uncorrected refractive error.

RenewSys at Work



5 MW, India, (DCR Project)



400 KW, India, (Rooftop Installation)

RenewSys Grows

We are happy to announce three new offices in **Dubai (UAE)**, **Delhi (India)** & **Chhattisgarh (India)**. These offices have been strategically established to cater to the growing customer base located across the Middle East and North India respectively.

Solar Smiles



Image Credit: King Features Syndicate


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Timeline of SOLAR ENERGY

2ND CENTURY BC *

Greek scientist Archimedes used bronze reflective shields to focus the intensity of the sun's rays to set fire to wooden ships from the Roman Empire.



* 6TH CENTURY AD



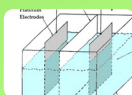
Large south facing windows and 'Sun Rooms' became so popular in the Byzantine empire that 'Sun Rights' were initiated to ensure each building had individual access to the sun.

-1776 *

Swiss scientist Horace de Saussure was credited with building the world's first solar collector that was used for cooking.



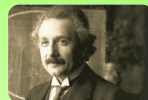
* 1839



Edmond Becquerel - a French scientist - discovers what we now know as the 'Photovoltaic Effect' while experimenting with an electrolytic cell suspended in fluid. When this cell was exposed to sunlight, it was found to generate an increased amount of electricity.

1904 *

Albert Einstein published his renowned paper on the photo-electric effect for which he won a Noble Prize in 1921.



* 1947



Passive solar buildings in USA grew in demand, due to scarce energy availability during the prolonged W.W.II. Libbey-Owens-Ford Glass Company even published a book entitled Your Solar House, profiling 49 solar architects, their plans and drawings.

1958 *

First Instance of solar energy in Space - The Vanguard, Explorer and Sputnik crafts are launched with solar PV on board. To this day, solar remains the preferred energy source for space applications.



* 1982



First solar powered car achieved near 2800 miles between Sydney & Perth in just 20 days - 10 days faster than the first petrol-powered car.

1984 *

First illuminated traffic signs with built-in solar cells and batteries are launched.



* 1999



Spectrolab Inc. & National Renewable Energy Lab develop a PV solar cell that converts 32.3% of sunlight into usable electricity.

2012 *

RenewSys the renewable energy arm of the Enpee Group, a diversified global conglomerate with a heritage of over 55 years of manufacturing excellence, begins operations.



* 2014



The world's largest solar-thermal plant officially starts generating power in the United States. The Ivanpah project is powered by an astonishing 350,000 solar mirrors, sprawling across approximately 5 square miles.

2017 *

India becomes home to world's largest solar plant on a 'single location'. The plant, in Kamuthi, Tamil Nadu, comes with a capacity of 648 MW and covers an area of 10 sq./km.



* 2017



RenewSys launches production of India's first 5BB Solar Cells as part of RESERV® range & Galactic Series of high power Solar PV Modules as part of DESERV™ range at its IMS certified plant in Hyderabad.