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## Our Message

This year holds promise for RenewSys. Our Hyderabad facility, which presently comprises a fully automated 130 MW Photovoltaic (PV) cell manufacturing unit and a 300 MW PV Module manufacturing unit, is geared up to achieve a total output of 700 MW by December. We also aim to expand our production capacity in a phased manner to 1.25 GW by the end of 2020. We plan to achieve this goal by increasing the number of projects and finding new applications for our products.

Over the last few months, we have successfully achieved new milestones, such as the launch of DESERV Extreme – 380 Wp, giving upto 646 Wp @ 70% Albedo (comprising of Bi-facial, cut Mono PERC cells), the Prime and X-Prime Modules and the Galactic series. We have also earned the distinction of being India's first company to indigenously design, develop and produce the 5 Bus Bar(BB) solar PV cells. With this achievement, we have commissioned the production of modules comprising 5BB cells.

These achievements are possible with our team's dedicated efforts. We hope to grow by leaps and bounds.

In 2018, we see a bright future for ourselves. Our team is continuously working towards creating a sustainable world for all-both in terms of power generation and cost reduction. Our efforts are reflected in our recent feats.

We recently developed a robust backsheet called PEEL-PROOF with the capacity of 3 GW, at a lower cost and which needs a single lamination. We aim to add it to our Backsheet product mix for international markets, thus increasing the overall revenue of backsheets.

We celebrate POE CONSERV E 360 Encapsulant being recognized as a finalist at the prestigious InterSolar Awards – Europe.

We have also commissioned a visual inspection machine with a 23 mega-pixel camera to identify and eliminate defects in finished encapsulants and backsheets, while increasing the throughput of slitting machines.

We aim to increase our cost effectiveness, by commissioning an additional 100 KW solar power plant, dedicated power feeder and conversion of electrical heaters to gas-based burners on production lines.

# Packaging for the Future

As we expand our operations, just-in-time delivery becomes crucial for many reasons. Firstly, our ability to deliver our modules in a timely fashion goes a long way in exceeding customer satisfaction. Secondly, we strive to deliver high quality products, which means that every module needs to be packed securely, transported, and delivered without any damage. Thirdly, with the help of the latest technology, we will be able to track our products and components more efficiently.

Before we talk about our future plans, let us highlight what has been done so far. Our ability to dispatch upto 2,000 modules per day has been one big achievement. We have been able to achieve this number by introducing a three-shift process, in which dispatches are made in all three shifts.

Another achievement has been the redesigning of our packaging boxes by our development team. The new design, created after considering

factors like the dimensions of the modules, the challenges faced during transportation, and specific customer requirements, has proved to be more effective than previous designs.

The vehicles used for transportation are regularly checked for the evenness of the bed quality. The loading is also tested in the presence of our experienced staff. In order to have easy accessibility to stored materials, the racking system has a facility to move on laid tracks. Stocks can now be stacked vertically, allowing far high storage densities and better space utilization.

We are proud to declare that we have installed an Istore software for the retrieval of goods from the storage area, and are working to make this system more effective for the future.

Lastly, the continuous efforts made by our Logistics team will go a long way in streamlining the processes.



Automated Mobile Racking System



# Training for Progress

With new product innovation and developments, our vision of strategic growth is once again reinforced. RenewSys believes that its employees drive its success. Our workforce comprises individuals who come from diverse fields and new perspectives.

To ensure that our efforts are aligned with our vision, we have implemented regular in-house training sessions at our Bengaluru and Hyderabad facilities. These sessions are designed to address training needs of our staff, including workmen.

Through programmes such as Train the Trainer, our employees are trained to identify problems and solve them, as well as answer technical questions posed by customers.

We have also introduced the Recommendations from the Reporting Officer initiative, whereby capable individuals are identified for bigger roles within the organisation.

Safety is another aspect we stress upon. Safety exercises, such as Firefighting training, Lifeline System training, and Chemical Spillage Prevention training, are organised regularly at our production facilities in Hyderabad and Bengaluru. Every employee is given a mandatory Emergency Controller Board introduction, which includes education on First Aid. By providing equal opportunities for all, we encourage every individual to put in their best.



Business Communication Training

# Branding for Success

RenewSys' vision for the future is expansion and visibility. By this year's end, we aim to achieve our target output of 700 MW. We also envision tapping into new markets, while ensuring that RenewSys becomes a household name. This means creating more awareness via a comprehensive Marketing and Sales strategy.

By showcasing our products at events, such as InterSolar-Europe and SPI, we hope to expand our footprint within the solar industry.

We have revamped our website, making it more informative and interactive with the "What's New" and "Careers" sections. We are also in the process of creating case studies and other publications, which will be available in both digital and print formats.

Through our Techno Commercial Customer Meets, we aim to create value for our customers across locations where we are present.

Communications for us is a vital part of our vision. We look forward to achieving new milestones through our new initiatives.



Techno Commercial Customer Meet

## On the Path of Discovery

The solar energy industry is constantly evolving. In order to stay ahead of the changes, our focus is on product quality and product development.

This year, we have much to celebrate. The successful launch of the DESERV Extreme 380 Wp PV module, Prime and X-Prime, and Galactic series are some of the milestones achieved. We have also successfully manufactured India's first Transparent Fluoro Backsheet.

In order to ensure optimum product quality, our fully automated European line plays a vital role. At the cell level, we have implemented various inspection procedures, such as PID Testing, High Racking and the 90 degree Visual Inspection Tests, to eliminate the possibility of micro-cracks and defects in cells.

At the module level, we have put in place the Hybrid three-stage Laminator, which ensures proper lamination. We have also various inspection measures, such as the EL Testing

with the help of a 23 mega pixel camera, at both pre and post lamination stages. Random samples are drawn from each module and cell batch to ensure quality and performance.

Our Product Excellence Centres are vital for achieving market quality standards. Through procedures, such as the Damp Heat test, HAST and Humidity Test, we ensure our modules maintain a consistent level of strength and efficiency under extreme circumstances.



DESERV Extreme Bi-Facial PV module

### NEW PRODUCT INNOVATIONS

DESERV / DESERV X-Prime	Transparent Fluoro-Backsheet	Frameless Modules	Integrated Vertical Street Light Modules
Used for applications which require high operational voltages	Suitable for all crystalline PV modules, especially BIPV and Bi-Facial	Used for varied applications	Vertical solar modules used mostly for streetlights
<b>Features</b>	<b>Features</b>	<b>Features</b>	<b>Features</b>
<ul style="list-style-type: none"> <li>No cell-to-module (CTM) losses</li> <li>High Operating Voltages</li> <li>High Performance</li> </ul>	<ul style="list-style-type: none"> <li>India's first transparent fluoro backsheet</li> <li>UV and weather stable</li> </ul>	<ul style="list-style-type: none"> <li>Light weight</li> <li>Easy to handle</li> </ul>	<ul style="list-style-type: none"> <li>Multiple voltage and current options</li> <li>Embedded into streetlight poles</li> <li>Performance under shading</li> </ul>

# Snippets from Around the Globe



RenewSys at The Solar Show Africa

## Solar Show South Africa

RenewSys launched its Galactic series of PV Modules at the Solar Show, in Johannesburg, South Africa, which was held from March 27-28, 2018. With this launch, RenewSys became one of the only five companies in the world to launch a 380 Wp solar panel.

The Galactic series is an improvement over the standard modules, due to its increased efficiency and smaller installation space. The series also enables a reduction in the hotspot effect, thus increasing the longevity of the product.

## InterSolar-Europe

In June, 2018, CONSERV E 360 POE was recognized as a finalist at the prestigious InterSolar Awards – Europe. With this recognition, RenewSys has successfully established itself as the first Indian company to manufacture and commercialize its Polyolefin Elastomeric (POE) Encapsulant. This product has been specially developed to combine the advantages of TPO as well.

Ideal for Glass-to-Glass and Glass-to-Backsheet modules, POE is a non-polar polymeric material, which has a high volume resistance to electricity. As a result, there is virtually zero PID effect.



Mr. Sugandh Rajaram, Consul General of India in Munich at the RenewSys Booth

## New Product Launch

### DESERV Extreme - Bi-facial PV Module

RenewSys recently launched India's most Efficient Solar PV Module-DESERV Extreme. This 380 Wp PV module which gives 646 Wp @ 70% Albedo. It is an innovation

engineered by combining Bi-Facial and Cut Mono PERC PV Cells. The Bi-Faciality is facilitated by a 'Transparent Backsheet' developed in-house.

## CSR Initiative

RenewSys launches India's first Vision Therapy Clinic for children with disabilities in Hyderabad. Supported by the LV Prasad Eye Institute and Mission for Vision, the children will now have access to different treatments, along with vision correction, thereby improving their overall well-being.

The Vision Therapy Clinic will also provide early intervention services and counselling sessions for the children and their parents. Parent Support Groups will also be introduced. The clinic will commence its operations later in the year.

## Solar Smiles



## Contact Us



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