

RenewSys Corporate Presentation



- ✓ About Us
- ✓ Facilities - Hyderabad, Bengaluru, and Navi Mumbai
- ✓ Products (PV Modules, PV Cells, Encapsulants, Backsheets)
- ✓ Product Excellence
- ✓ Contacts

About RenewSys

03.

RenewSys is the First Integrated Manufacturer of Solar PV Modules and Its Key Components - Encapsulants (EVA, POE, & EPE), Backsheets and Solar PV Cells





About ENPEE Group



Established in 1961







\$515 MILLION

4000+ EMPLOYEES



www.enpee.com

RenewSys India Pvt. Ltd. is a part of the ENPEE Group.
An international conglomerate
established in 1961, with a rich heritage of
manufacturing excellence in diverse industries.

Based in Nigeria:

-  **AVON**
CROWNCAPS & CONTAINERS Manufacturing Metal Packaging
-  **Fine**
FINE CHEMICALS NIGERIA Printing Cylinders and Inks, CPP Films
-  **pure hygiene** Soaps, Personal and Home Care, Beauty and Cosmetics
-  **PrimePak**
industries Flexible packaging
-  **PIL** PURECHEM INDUSTRIES LIMITED Cement/ Fibre Cement Sheets
-  **PURECHEM** Construction, Chemicals, Adhesives, Power Cables

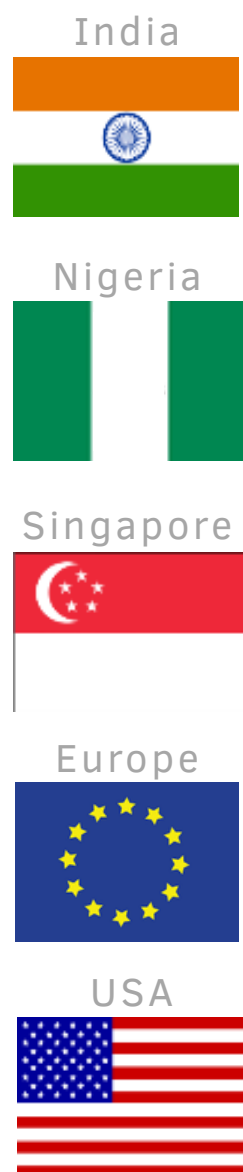
Based in India:

-  **ENCEPT**
PREMEDIA Packaging Brand Management
-  **RenewSys**
let there be light Solar PV Modules & Components
Manufacturing Facilities in Hyderabad, Bengaluru, & Navi Mumbai

RenewSys Global Presence

05.

RENEWSYS CORPORATE PRESENTATION



■ Manufacturing Facilities ● Offices ● Representatives ▲ Customer Presence



Manufacturing Facilities



Bengaluru:

CONSERV[®] 6 GW

EVA, POE, & EPE

Encapsulants

PRESERV[®] 4 GW

Backsheets



Hyderabad:

DESERV[®] 1.1 GW

TOPCon + Multi

PV Modules

RESERV[®] 130 MW

PV Cells



Patalganga:

DESERV[®] 1.4 GW

Mono PERC

PV Modules

The Team

07.



We are:

- Diverse set of dedicated professionals
- Knowledgeable with varying skill sets as engineering, finance, human resources
- Energetic and Dynamic
- Innovative and Progressive
- Human Resource strength of approximately 1500

Environment:

- Innovation – e.g. Green Backsheet
- Recycling initiatives
- Reduced energy consumption by over 10 lakh units and water consumption by over 100 lakh liters in 2021
- 5000 trees and saplings planted over the last five years
- High on compliance for EPR responsibility (Plastic & E-waste)

Social:

- PPE Kit Donation during COVID-19
- Proud supporter of the India One Solar Thermal Power Plant
- Healthcare & Eye-care research – Launch of Vision Centers
- Education for the underprivileged
- Supporting local NGOs
- Sponsoring Cancer patients
- Sponsoring Ph.D. Scholarship SERIS, Singapore
- New initiative towards research into Diabetes

Governance:

- Board Structure:
Promoter (Related): 2
Professional/s 1
Independent Director/s -3
- Global leaders and visionaries who provide strategic direction and guidance to the organization
- The Company, under their leadership, is looking to adopt comprehensive governance codes, such as Incentivized Pay, Ethics and Anti-Corruption policy and ESG Reporting

Product Excellence Centre (Hyderabad)



India's Largest

PV Modules Testing Facility

- Rigorous and controlled quality
- Range of equipment including seven Environmental Chambers

Product Excellence Centre (Bengaluru)



India's 1st

NABL-accredited (Bengaluru) Solar PV
Laboratory specifically for Encapsulants,
Backsheets & their raw materials

- Facilitate New Product Development
- Continuous testing and Quality Control
- Superior Equipment - Laboratory Extruder, Lab grade Laminator, and Universal Testing Machine, Environmental Chambers for Damp Heat Test, Thermal Cycling, etc.

RenewSys - The 1st

11.



- And only integrated manufacturer
- In India to launch Glass-Backsheet Bifacial Solar PV Module.
- In India to receive UL approval for POE Encapsulant
- Indian manufacturer to have a dedicated NABL-accredited 'Product Excellence Centre,' offering free module wellness programme - Dr. PV from Bengaluru Facility
- In India to launch 5 BB and 6 BB solar PV Cells, Made in India
- Indian company to receive a PV Backsheet patent
- In India to launch the fastest curing Encapsulant

NEW

N -TYPE TOPCON MODULES



N-Type TOPCon

Efficiency: Up to 23.3 %

Temp Co-Eff.: -0.29 %/°C

Output Wp:

120 X	144 X	156 X
465-500	560-600	600-650

12.

RenewSys Hyderabad

13.

The home to our World Class PV Modules and PV Cells - Made in India

- ✓ At Hyderabad
Electronic
Manufacturing
Cluster
- ✓ Total area
50 Acres
- ✓ World - class
Manufacturing
facility
- ✓ State-of-the-art
Technology
- ✓ World - class
Racking System
on tracks

Production Capacity: DESERV and RESERV



14.

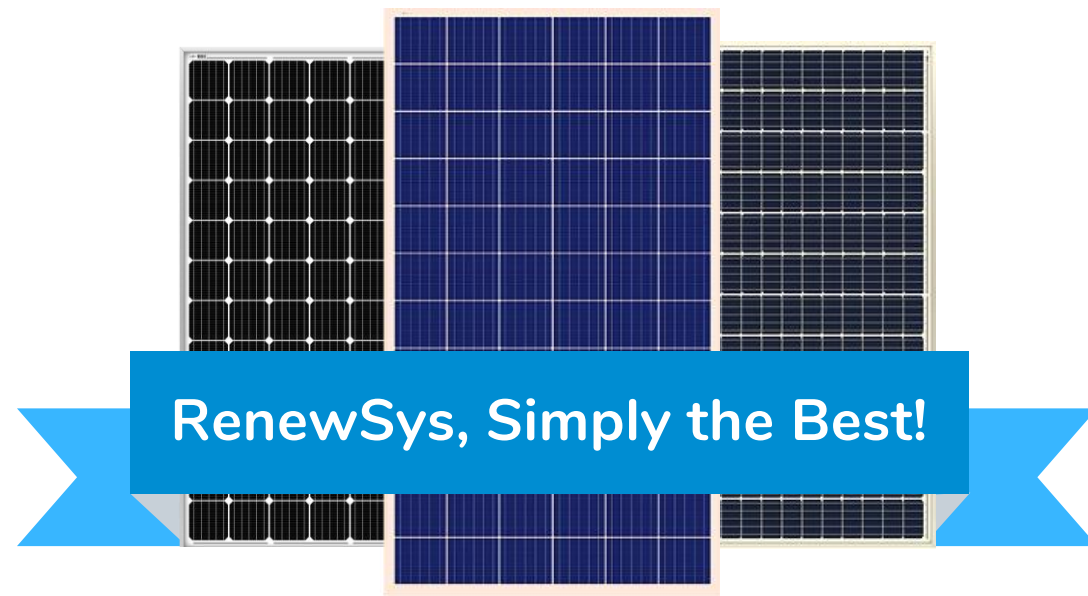
DESERV® 1.1 GW Solar PV Modules:

- Automated lines to manufacture TOPCon and Multi (including DCR), full-cell and cut-cell modules

RESERV® 130 MW Solar PV Cells:

- Fully automated production lines
- PV Cells are made from undiffused silicon wafer (black wafer), as per MNRE requirements

DESERV - Product Range



Solar PV Modules

to suit application from small lighting systems to utility scale plants.

- ✓ High Performance PV Modules
Multi and Mono Crystalline
- ✓ High Voltage, High Output PV Modules
Prime and X-Prime Series
- ✓ Higher Output PV Modules
 - Extreme Series - Bi-Facial Mono PERC Cut Cells
 - SGalactic Series - Mono PERC Cut Cells
- ✓ Small PV Modules
- ✓ Specialised PV Modules
 - BIPV (Building Integrated Photovoltaic)

15.

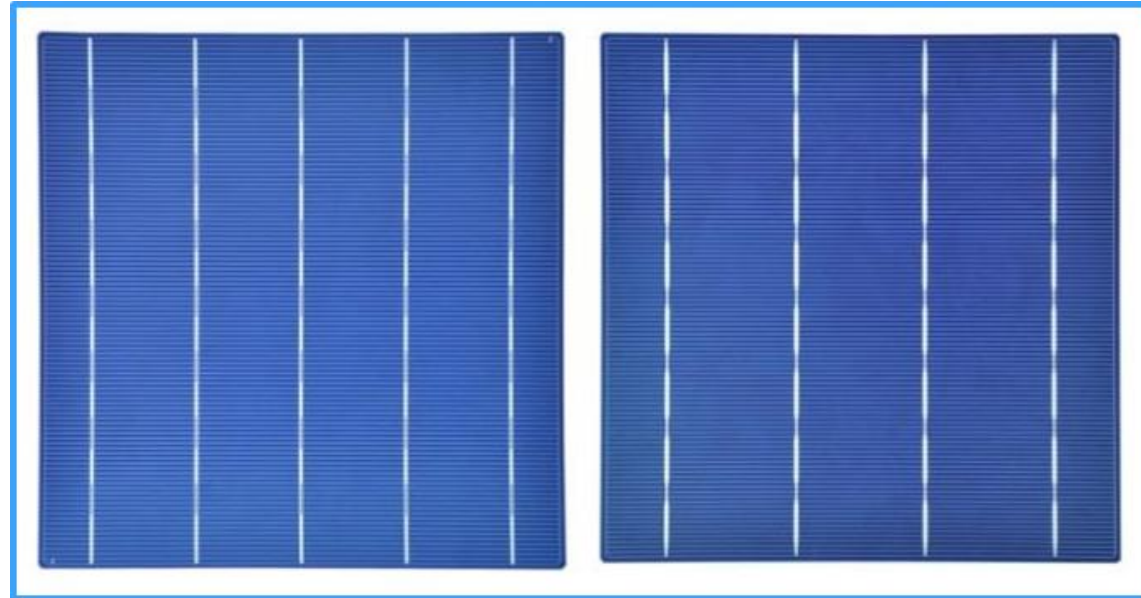
Product Certifications



- TUV Certified 61215, 61730, 60068-2-68, 61701, 62716
- IEC TS 62804, 61853
- UL Certified: 1703
- SON CAP Certified
- ALMM Listed

- Meets requirements for – SASO, RRECL, GEDA
- CAN/CSA: 61730
- DEWA Listed
- Independently audited by Solar Buyer
- BIS NO.: R-63000760

RESERV - Product Range



Solar PV Cells

made from poly-silicon
wafers and silver bus-bars

- ✓ Total cell capacity - 130 MW
- ✓ First Indian company to launch 5 BB and 6 BB Cells
- ✓ Raw materials, including high purity solar grade undiffused silicon wafer (black wafer) as per MNRE requirements
- ✓ Statistical process control during production
- ✓ 100% Inline EL Inspection
- ✓ PID Testing at cell level

17.

Packaging and Storage - Hyderabad

18.

Our storage facilities

are designed for the secure and safe dispatch of our modules and components:

- Detailed inspection SAP system ensuring safe delivery
- Capable of 15,000 module dispatches per day
- Instore software for retrieval of goods from storage
- World-class Racking System with the facility to move on tracks



RenewSys Patalganga

19.

The home to our World Class Large Format PV Modules - Made in India

- ✓ At Navi Mumbai
MIDC Industrial Area
- ✓ Total area
8.5 Acres
- ✓ State-of-the-art
Module Manufacturing
Technology
- ✓ Comprehensive
Product Testing
Centre

Production Capacity: DESERV



20.

DESERV® 1.4 GW Solar PV Modules:

- State-of-the-art manufacturing lines to make DESERV SGalactic & Extreme Large Format Solar PV Modules
- DESERV SGalactic (Monofacial) & Extreme (Bifacial) modules available in the configurations of 108X, 120X, 144X, & 156X

DESERV - Product Range



DESERV SGalactic Mono-facial
DESERV Extreme Bi-facial

156, 144, 120, 108

- ✓ **Smart:** High module efficiency with half-cut Mono-crystalline Multi Bus Bars PERC Solar Cells
- ✓ **Modern:** Processed on state-of-the-art technology production lines
- ✓ **Dependable:** Use of the highest quality raw material coupled with rigorous in-house testing
- ✓ **Versatile:** Suitable for Utility, Rooftop, and other general applications

Munich RE and DNVGL

- Setting industry benchmarks for transparent, reliable business
- RenewSys modules now accepted by major Developers, EPC companies and Financiers, who otherwise only accept 'Tier 1'

22.

Bankability

Transparency enhanced with audit by DNV GL - empowers customers with insights



Insurance

Both module factories are Munich RE*-insured with valid insurance

Warranty partner



*Terms & conditions apply

RenewSys Bengaluru

23.

The home to our World Class Polymers - Made in India

✓ Located on
Bommasandra Jigani

Link Road, Bengaluru

✓ Total
area

6 Acres plot

✓ World - class

Manufacturing
facility

✓ Latest and
state-of-the-art

European
Technology

Production Capacity: CONSERV and PRESERV

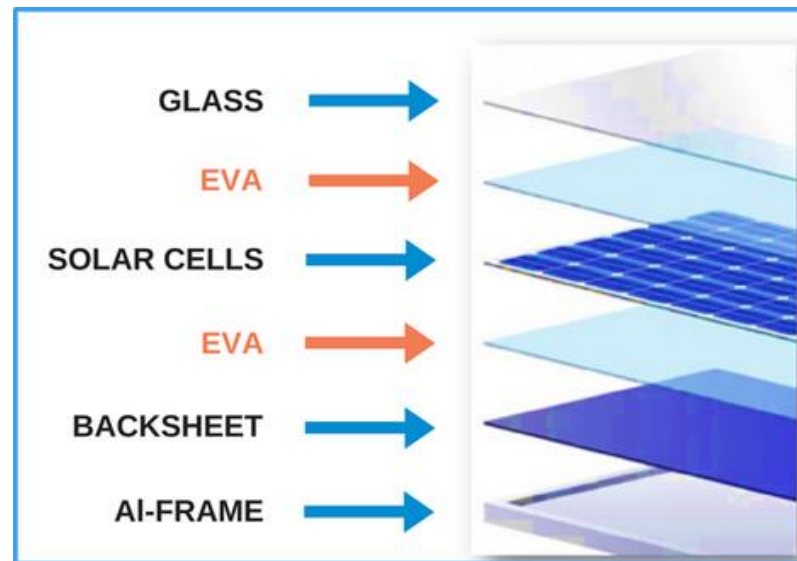


CONSERV® 6 GW
EVA, POE, & EPE
Encapsulants

PRESERV® 4 GW
Backsheets & Bus Bar
Insulation Sheets

- Fully automated production lines

CONSERV - EVA Encapsulant



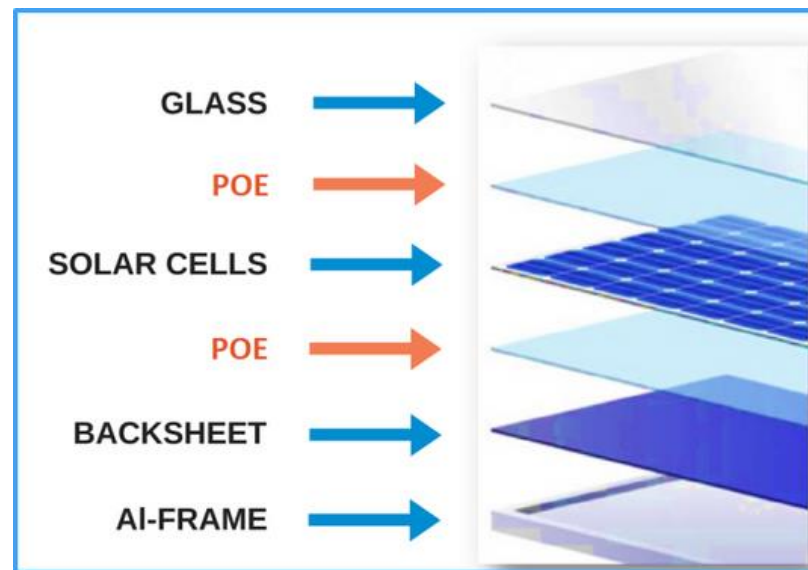
CONSERV range of Ethylene Vinyl Acetate (EVA) Encapsulants protect PV cells and the integrity of the module

CONSERV EVA Encapsulant:
Encompasses a range of products in 'Fast Cure', 'Ultra-fast Cure', and 'Giga-Fast Cure' versions:

- ✓ Potential Induced Degradation (PID) Resistant
- ✓ Ultra Violet (UV) Transparent

CONSERV - POE Encapsulant

26.



CONSERV range of Polyolefin Elastomer (POE) Encapsulants protect PV cells and the integrity of the module

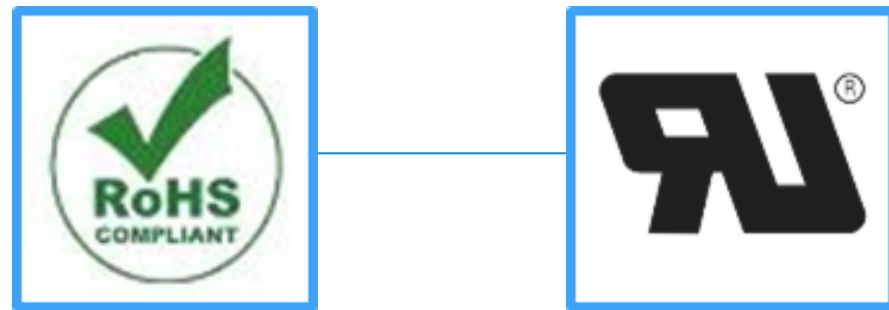
CONSERV POE Encapsulant:

Ideal for use in Glass-to-Glass PV modules, it is well suited to protect Glass-to-Backsheet PV modules also.

- ✓ India's first UL-Certified POE
- ✓ Delivered advantages of TPO as well
- ✓ Unique formulation for virtually Zero PID
- ✓ Resilient in harsh and extreme climatic conditions



Product Certifications



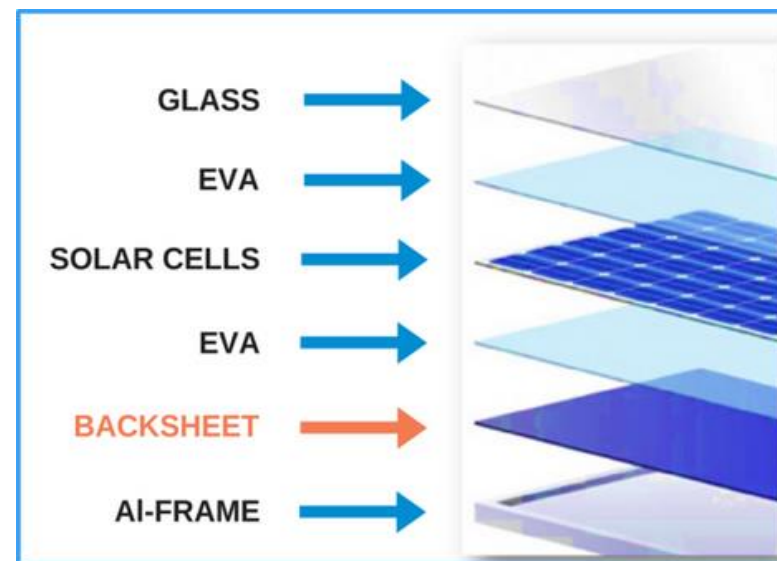
CONSERV®

- UL: UL 746A & UL746B
- IEC 61215
- RoHS
- DHT TUV Declaration

PRESERV®

- UL: UL 764A & UL 764B
- CTI (Comparative Tracking Index)
- RoHS
- Partial Discharge
- Flame Spread Index

PRESERV - Product Range



PRESERV Backsheets

protect the module from moisture and dust, and are crucial for ensuring performance

PRESERV Backsheets and Bus Bar Insulation Sheets:

- ✓ Tedlar® Backsheets
- ✓ PVDF Backsheets (Fluoro)
- ✓ Metallic-based Backsheets
- ✓ PET-based Backsheets

Supply To Date

PV Modules

2.5+ GW

PV Cells

550+ MW

Encapsulants
& Backsheets

22+ GW

29.

Inception-To date



RenewSys PV Module Installations

30.



31.

Capacity: 15 MW

Location: Nagpur



32.

Capacity: 56 MW

Location: Barmer, Rajasthan, India



33.

Capacity: 45 MW

Location: Tuticorin, Tamil Nadu

34.



Capacity: 10 MW

Location: Canal Top, West Bengal



35.

Capacity: 750 KW

Location: 39615 Zehrental (OT Drösedo), Altmark



36.

South Africa's largest ground
mounted private sector project
Project: Nelson Mandela University

Capacity: 1.1 MW

Location: Port Elizabeth, Eastern Cape

Funded by : Standard Bank of South Africa



37.

South Africa's largest
Floating Solar Power Plant

Capacity: 233 KW

Location: Western Cape, South Africa



38.



Capacity: 931 KW

Location: Bachmann AG, 6153 Ufhusen



39.

Capacity: 210 KW

Location: Amity University, Dubai

Contact Us

● Factory Contacts:

RenewSys India Pvt. Ltd.

Bengaluru Division:

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RenewSys India Pvt. Ltd.

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RenewSys = Peace Of Mind

41.

Thank you!