

Solar power is the last energy resource that isn't owned yet - Nobody taxes the sun yet -- Bonnie Rait

ROOFTOP SOLAR ENERGY SYSTEM

A COMPLETE ENERGY SOLUTIONS



Content

Company

Products

Projects

Company Description

Our vision and mind are focused on the endless application of solar energy. In the year 2022, our respected Chairman, Mr. C.C. William Verghese, opted for a group of like-minded people to join hands with the institution for maximum utilization of the new generation energy resource – Solar Power. For that he has brought an array of young, professional, energetic and most experienced technical experts.

Even after 4 decades, each and every customer do rely on our services and contributions. Our motto is to come in the list of top-rated distributors of Solar Panels and inverters. Thereafter, we are concentrating on the materialization of innovative projects regarding the so-called: “Future Energy Resource – Solar Power”.

Now we have become one among the major and known quality-maintained distributors of South India. We have tie-ups with adequate internationally known companies to maintain and increase the quality of our solar-grid products.

Solar Module and Energy Solutions

- The group is committed to providing world class & innovative Services and Products across a range of businesses
- Polycrystalline & Mono-Perc Half-Cut Solar Panels
- Skilled & Experienced Engineers
- Experienced Technicians and High-Quality Work
- 2 MW of EPC Integration capacity by the end of 2023

Energy Business

- Development and construction of utility-scale solar Plants /Projects
- Total Projects in Pipeline: 1 MW
- Ongoing Projects: 250 KW

Leading Solar Company in KERALA

- SML Solar is one of the leading Solar Company in Kerala
- We have completed total 500KW Projects in the year, 2023
- Total Projects in Pipeline: 1 MW
- Ongoing Projects: 250 KW
- Many of our customers have been able to reduce their monthly bills by 95%
- Convert your Petrol or Diesel Cars into an Electric Vehicle to reduced fuel expenses
- Replacing cooking gas with electric induction cooktop is safer and more efficient
- Grid-Connected Systems are affordable and easy to maintain. No need for using battery

1 MW of Solar Project Pipeline; 250 KW Ongoing Projects

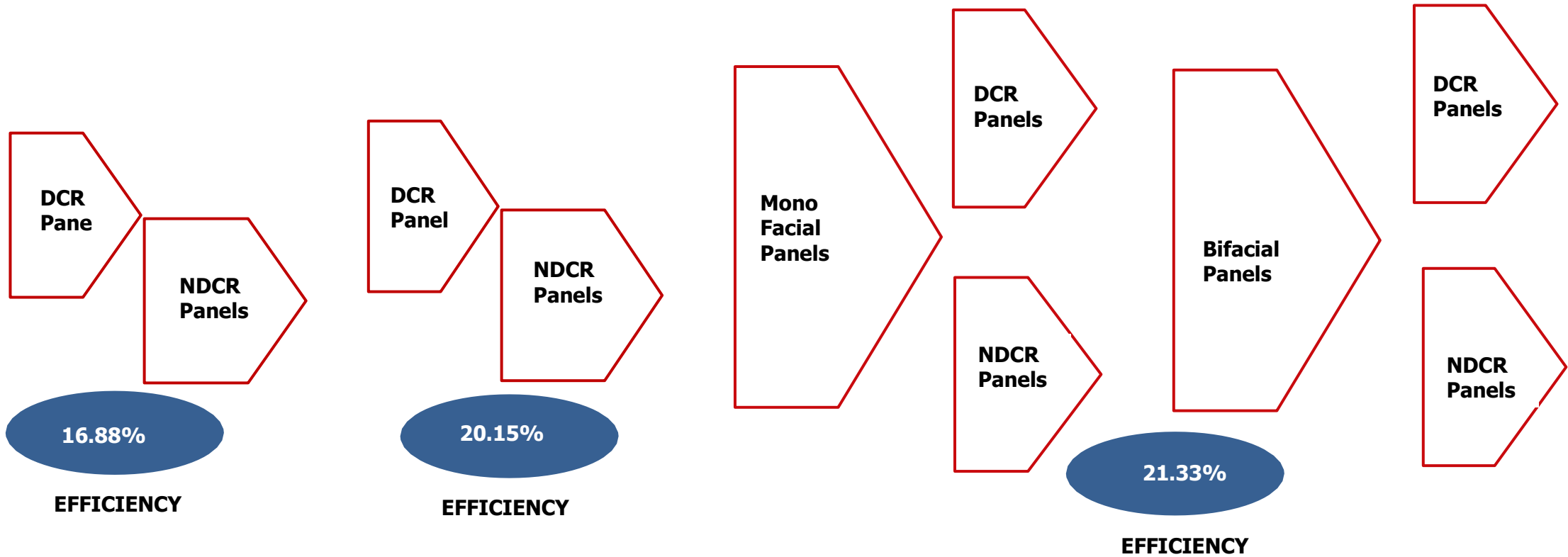
Content

Company

Products

Projects

Cell and Module Technology Roadmap



Poly Crystalline & Mono Crystalline

Mono PERC Half Cut

Poly Crystalline Solar Panels

Poly Crystalline Panel

Module Wattage	330W
Module Efficiency	16.88%
Module Dimensions	1985× 1000 × 35mm



- Module Wattage-330Wp, Module Efficiency up to 16.88%
- **Industry leading warranty: 10 Years Product Warranty & 25 Years Linear Power Warranty**
- **Cells Specifications (Number, Size): 72 Cells, 157mm X 157mm**
- Lower temperature coefficient (Pmax): -0.4080%/ °C

Mono-Crystalline Solar Panels

Mono-Crystalline Panel

Module Wattage	Up to 390W
Module Efficiency	Up to 20.15%
Module Size	1985 × 1000 × 35mm



- Module Wattage-390Wp, Module Efficiency up to 20.15%
- **Industry leading warranty: 10 Years Product Warranty & 25 Years Linear Power Warranty**
- **Cells Specifications (Number, Size): 72 Cells, 158.75mm X 158.75mm**
- Lower temperature coefficient (Pmax): -0.4080%/ °C

Mono-Perc Half Cut Solar Panel

Mono-Perc Half Cut Panel

Module Wattage	Up to 545W
Module Efficiency	Up to 22%
Module Size	2274 × 1134 × 35mm

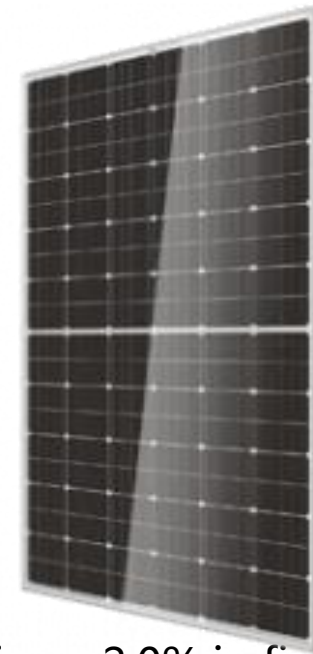


- Module Wattage-545Wp, Module Efficiency up to 21.33%
- **Industry leading warranty: 12-year performance warranty**, Linear Power Warranty for 27 years with 2% for 1st year degradation and 0.55% from year 2 to year
- **Cells Specifications: M10 144 Cells**
- Lower temperature coefficient(Pmax): -0.35%/ °C

Mono-Perc Half Cut Bifacial Solar Panel

Mono-Perc Half Cut Panel

Module Wattage	Up to 545W
Module Efficiency	Up to 22%
Module Size	2266 × 1133 × 35mm



- Module Wattage-545Wp, Module Efficiency up to 21.33%
- **Industry leading warranty: 12-year performance warranty, Power Degradation <2.0% in first year <0.45%/year in 2-30 Years**
- **Cells Specifications: M10 144 Half-cut mono-crystalline P-type PERC bifacial solar cells; Multi bus bar**

On-Grid Inverters



KSOLARE Inverters

Inverter Capacity	Up to 2-250kW
Conversion Efficiency	Up to 98.7%
Standard Warranty	8 Years



- Inverter power up to 250kW, Conversion efficiency up to 98.7%
- **Standard Warranty: 8-Year Standard Warranty**


SOFAR Inverters

Inverter Capacity	Up to 3 – 250KW
Inverter Efficiency	Up to 97.7%
Standard Warranty	8 Years

- Inverter power up to 250kW, Conversion efficiency up to 98.7%
- **Standard Warranty: 8-Year Standard Warranty**
- Warranty is extendable upto 15 Years



International Quality Certificates

Approvals & Certifications for Panels	Approvals & Certifications for Inverter
<ul style="list-style-type: none"> • IEC 61215 Ed2, IEC 61730, IEC 61701, UL 61730, MCS, JET, CEC, CEC-Aus, IEC 62716, IEC 62782, IEC 60068-2-68, IEC 61853, BIS, • ALMM Listed • CE conformity 	<ul style="list-style-type: none"> • EMC: EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3 • Safety Standards: IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109-1/2 • Grid Standards: AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, G83/2, C10/11, RD 1699

Module Warranty

Poly Crystalline modules

**25
year**

Linear power
output warranty

**10
year**

Product warranty
on materials
and workmanship

Mono Perc Half Cut / Bifacial modules

**30
year**

Power output
warranty

**12
year**

Product warranty
on materials
and workmanship

*Please refer to the warranty statements of Solar Panels for more details.

Inverter Warranty

SOFAR INVERTER

**8
year**

Standard Warranty

**Upto 15
year**

Extended Warranty

KSOLARE INVERTER

**8
year**

Standard Warranty

*Please refer to the warranty statements of Inverter for more details.

Solar Inverter Advantages



Higher Efficiency, compatible for high power modules

- DC/AC Ratio up to 1.5
- Efficiency up to 98.1%
- Europe efficiency 97.5%
- High string DC input current 12.5A



Higher reliability, suitable for various environmental conditions

- Integrated IGBT module, less components and higher reliability
- IP 65, better waterproof
- With LED indicator lights, more durable than LCD screen
- High quality components from leading suppliers

Solar Inverter Advantages



Easy installation and O&M

- Simple bracket design
- Light weight
- One-click configuration
- Local mode, remote control and upgrade
- Real-time monitoring with Cloud platform
- Combined wiring box design, reduce installation time



Better safety performance

- DC reverse alarm function
- Leakage current suppression technology
- Overvoltage Class, II(DC), III(AC)
- SPD protection Type II (DC Box Version, DC side)

SOLAR PROJECT PLANNING

PROJECT PLANNING

- Applications Support
- System Performance Modeling
- Capacity Sizing and Maintenance
- Site Planning



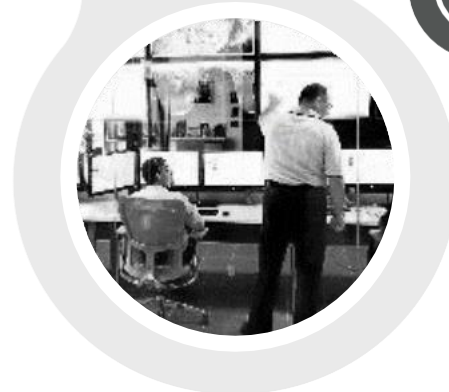
PROJECT IMPLEMENTATION

- EPC Contracting
- Integration & Commissioning
- Plant Controllers & Telemetry
- Regulatory Engagements
- Safety Planning
- Supply Chain Management and Logistics

PRODUCTS



SERVICES



Content

Company

Products

Projects

Solar Plants Installed By SML SOLAR



BRD Thaloor, Thrissur, Kerala

Capacity: 175 KW
Module : ADANI Mono Perc Half Cut
Inverter : SOFAR 60 KW-3Nos



BRD Vazhakkod, Thrissur, Kerala

Capacity: 40 KW
Module: ADANI Mono Perc Half Cut
Inverter: GoodWe 36 kW

Solar Plants Installed By SML SOLAR



BRD Irinjalakkuda, Thrissur, Kerala

Capacity: 30 KW

Module : ADANI Mono Perc Half Cut

Inverter : EVVO



Ayurbethania Hospital, Thrissur, Kerala

Capacity: 56 KW

Module : ADANI Mono Perc Half Cut

Inverter : EVVO & SOFAR

Solar Plants Installed By SML SOLAR



Penco Marbles, Thrissur, Kerala

Capacity: 20 KW
Module : ADANI Mono Perc Half Cut
Inverter : KSOLARE



Casa Allay Home Stay, Ernakulam, Kerala

Capacity: 10K KW
Module : RAYZON Mono Perc Half Cut
Inverter: KSOLARE

Solar Plants Installed By SML SOLAR



Castillo Inn Home Stay, Ernakulam, Kerala

Capacity: 16 KW
Module : RAYZON Mono Perc Half Cut
Inverter : KSOALRE



Mr. Shibu, Thrissur, Kerala

Capacity: 20 KW
Module : VIKRAM Mono-Perc Half Cut
Inverter : SOFAR

Solar Plants Installed By SML SOLAR



Chiryankandath Jewellery, Thrissur, Kerala

Capacity: 10 KW
Module : ADANI Mono Perc Half Cut
Inverter: ENPHASE



Mrs. Rekha Rajesh, Ernakulam, Kerala

Capacity: 10 KW
Module : Pixon Poly
Inverter : KSOLARE

Solar Plants Installed by SML Solar



Mrs. Lalitha, Ernakulam, Kerala

Capacity: 10 KW
Module : VIKRAM Mono Perc Half Cut
Inverter : SOFAR



Mr. Jayachandran, Alappuzha, Kerala

Capacity: 10 KW
Module : ADANI Mono Perc Half Cut
Inverter : EVVO

A warm, golden-hued background featuring a field of dandelions. A bright sun is visible in the upper right corner, creating a soft glow and lens flare effects. Several dandelion seed heads are in focus, with some seeds appearing to be blowing away. A white, rounded rectangular text box is positioned in the center-left of the image.

THANK YOU!

Year. 2023