



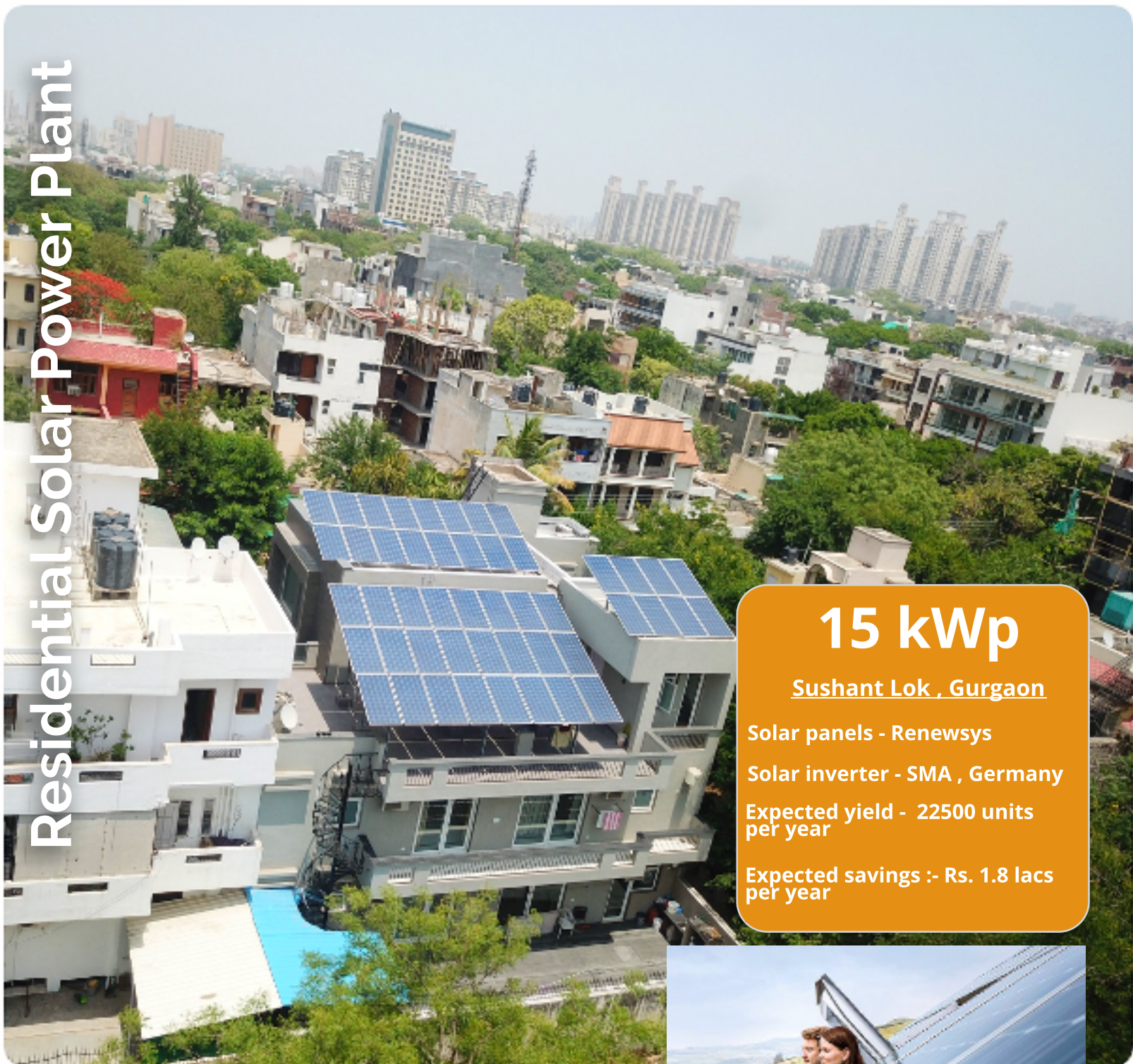
HELIUMFOUR SOLAR PVT LTD.



QUICK REFERENCE GUIDE

RESIDENTIAL | COMMERCIAL | INSTITUTIONAL | INDUSTRIAL

Residential Solar Power Plant



15 kWp

Sushant Lok , Gurgaon

Solar panels - Renewsys

Solar inverter - SMA , Germany

Expected yield - 22500 units
per year

Expected savings :- Rs. 1.8 lacs
per year



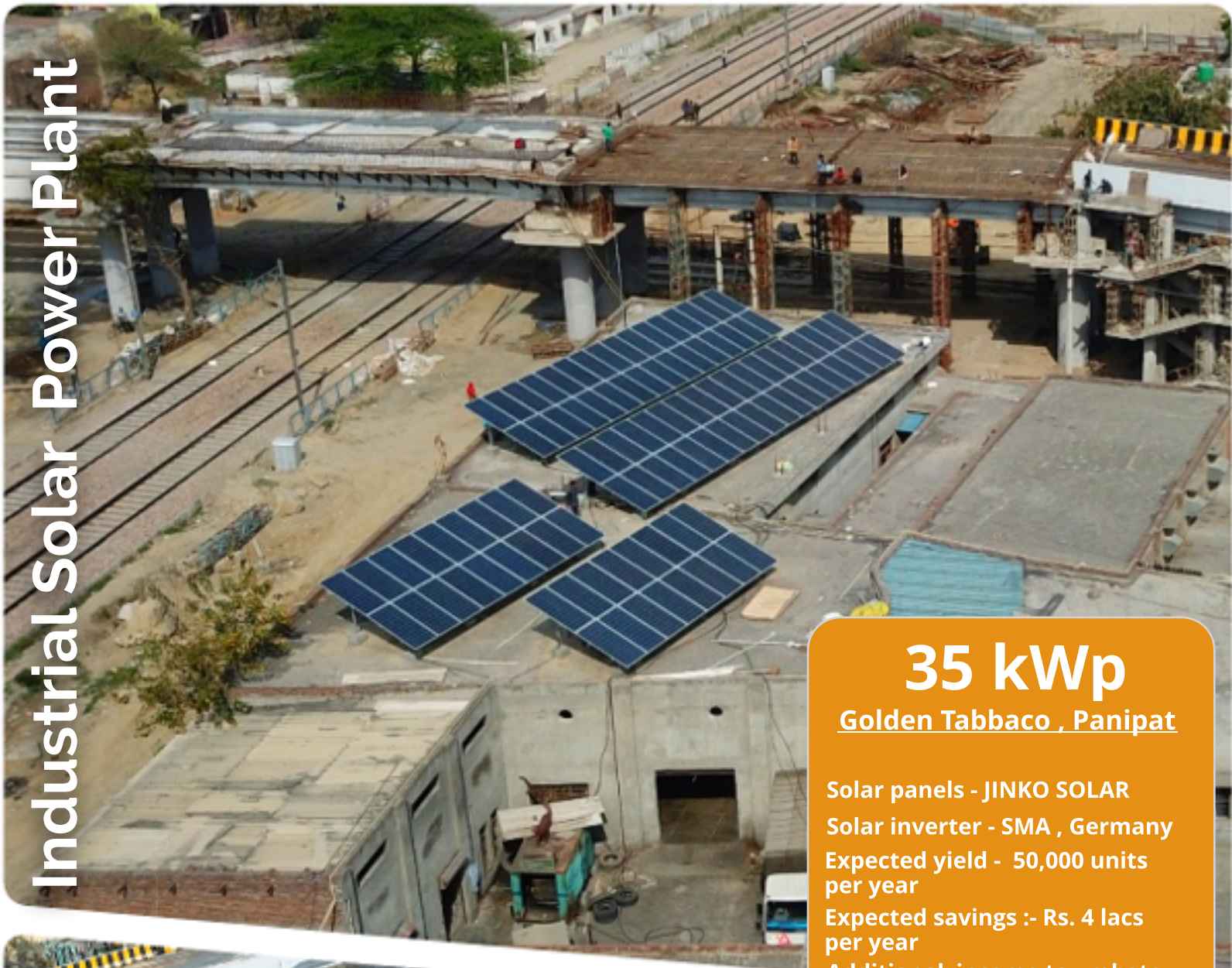
MINISTRY OF NEW & RENEWABLE ENERGY , GOVT. OF INDIA ,PROVIDES A FINANCIAL ASSISTANCE OF RS. 10000/KWP WHICH IS LIMITED TO ONLY RESIDENTIAL INSTALLATIONS UPTO 10 KWP CAPACITY. ONLY DOMESTIC SOLAR PANELS ARE ALLOWED TO BE INSTALLED IN THESE PROJECTS.

THE CONSUMER CAN HOWEVER PROCEED TO INSTALL A PLANT WITHOUT SUBSIDY AND STILL AVAIL THE NET METERING BENEFIT.

FOR GROUP HOUSING SOCIETIES A CAPPING OF 10 KWP / HOUSE IS APPLICABLE.

FOR RESIDENTIAL SYSTEMS UPTO 3 KWP THE FINANCIAL ASSISTANCE IS RS. 20000 PER KWP

Industrial Solar Power Plant



35 kWp

Golden Tabbaco , Panipat

Solar panels - JINKO SOLAR

Solar inverter - SMA , Germany

Expected yield - 50,000 units
per year

Expected savings :- Rs. 4 lacs
per year

Additional income tax rebate





290 kWp

Kothari International School

Solar panels - JINKO SOLAR

Solar inverter - SMA , Germany

Expected yield - 380000 units per year

Expected savings :- Rs. 36 lacs per year

Equipped with Energy manager for potential savings on wastage.

Turnkey EPC

Kothari International School
290 kWp Grid Interactive solar plant



lifetime leak-proof guarantee on tin sheds

175kWp

Palmy Foods , Varanasi

Solar panels - JINKO SOLAR

Solar inverter - SMA , Germany

Expected yield - 200000 units per
year

Expected savings :- Rs. 18 lakhs
per year

Equipped with Energy manager for
potential savings on wastage.



Scan the QR code using the
phone camera to watch the
detailed video on you tube.



Solar Inverters & Accessories



SMA SUNNY BOY
1-6 KW

SOLAR INVERTERS

\$ 1000 - \$ 1500



SMA SUNNY TRI
POWER 5-10 KW

SOLAR INVERTERS

\$ 1800 - \$ 2200



SMA SUNNY TRI
POWER 11-25 KW

SOLAR INVERTERS

\$ 2750 - \$ 3000



SMA SUNNY TRI
POWER 50 KW

SOLAR INVERTER

\$ 5000



SMA SUNNY HIGH
POWER 75KW

SOLAR INVERTER

\$ 4100



SMA SUNNY ISLAND
OFF GRID SOLAR
INVERTER

\$ 3500



SMA SUNNY BOY
HIGH VOLTAGE
STORAGE

\$ 3500



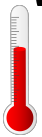
SMA MV STATION
UPTO 3 MW

STORAGE

ASK FOR QUOTE

η

98.6 % Efficiency



52° Celsius De-rating



Waterproof (all directions)
Completely Dust Proof

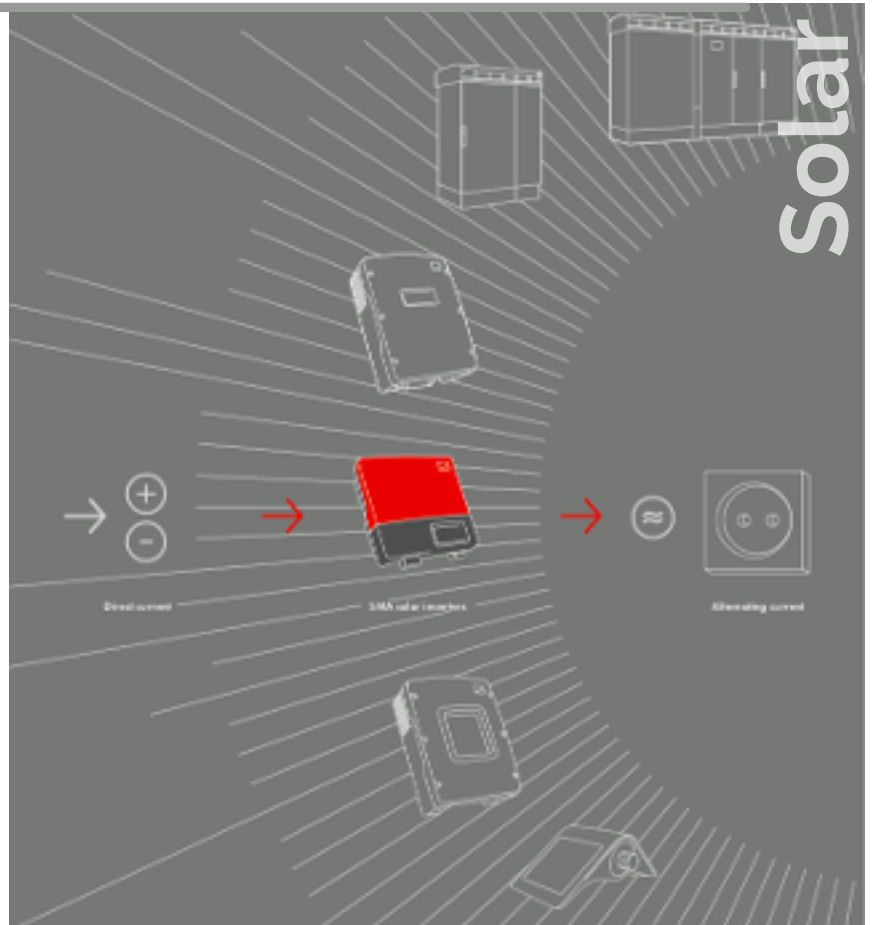


Opticool



Optitrac
shade mitigation

"IF A SOLAR PLANT IS
COMPARED TO THE
HUMAN BODY THEN
INVERTER IS THE
BRAIN"





DATA MANAGER M



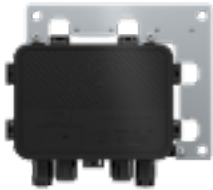
SMA CLUSTER
CONTROLLER



SMA ENERGY
METER



SMA HOME MANAGER



SMA TIGO
MODULE OPTIMIZER



SMA STRING
COMBINER BOX



SMA WEATHER
SENSOR BOX



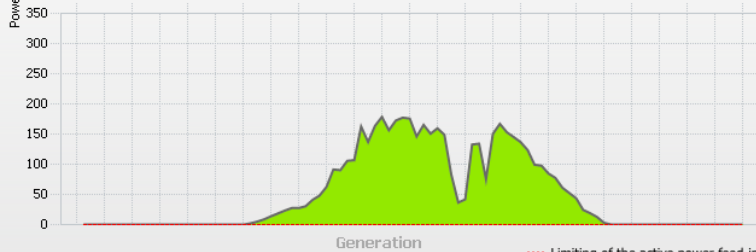
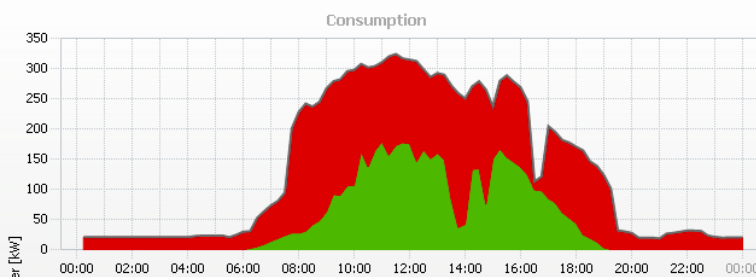
SMA PLANT
CONTROLLER



SOLAR TECHNOLOGY

Energy Balance

Current Day Month Year Total



■ Daily consumption 3241.55 kWh
 ■ External energy supply 2051.37 kWh
 ■ Internal power supply 1190.18 kWh
 ■ Daily yield 1190.30 kWh
 ■ Self-consumption 1190.18 kWh
 ■ Grid feed-in 0.12 kWh

01/08/2019



Balance

| | | | |
|--|-------------|---|-------------|
| ■ Daily consumption | 3241.55 kWh | ■ Daily yield | 1190.30 kWh |
| ■ External energy supply | 2051.37 kWh | ■ Self-consumption | 1190.18 kWh |
| ■ Internal power supply | 1190.18 kWh | ■ Grid feed-in | 0.12 kWh |
| Self-sufficiency quota | 37 % | Self-consumption rate | 100 % |

www.SunnyPortal.com

Professional management, monitoring and presentation of PV plants





JINKO SOLAR

60 CELL POLY-CR

MAX - 285 WATTS



JINKO SOLAR

72 CELL POLY-CR

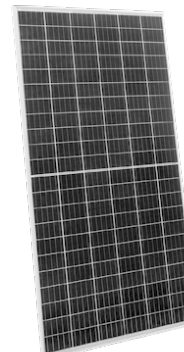
MAX - 340 WATTS



JINKO SOLAR

60 CELL MONO PERC

MAX - 345 WATTS



JINKO SOLAR

72 CELL MONO PERC

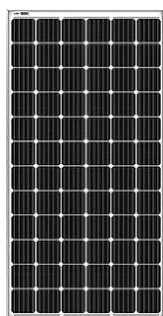
MAX - 410 WATTS



PANASONIC HIT

60 CELL

340 WATT MAX



RENEWSYS

MONO PERC

375 WATT MAX



RENEWSYS

POLY-CR

335 WATT MAX

**"IF A SOLAR
PLANT IS
COMPARED
TO THE
HUMAN
BODY
THEN
SOLAR
PANEL IS
THE
HEART"**

Solar Panels

- Higher module conversion efficiency (up to 20.45%)
- Excellent Anti-PID performance guarantee limited power degradation for mass production
- Advanced glass and cell surface textured design ensure excellent performance in low-light environment
- Excellent Anti-PID performance guarantee limited power degradation for mass production
- Advanced glass and cell surface textured design ensure excellent performance in low-light environment
- Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

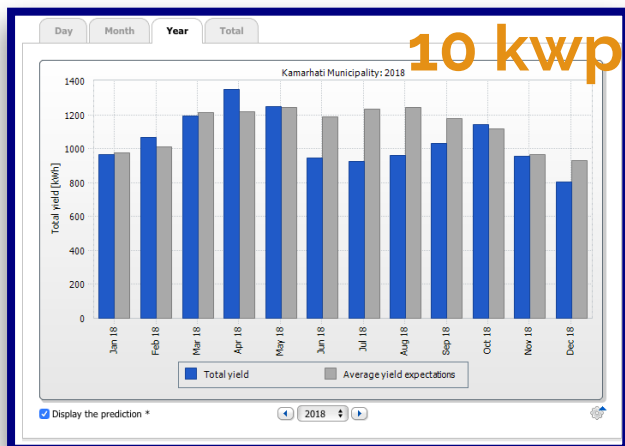
Generation Data from solar plants across locations



12380 Units of electricity produced in 7 months from a 13.65 kWp project at Chandigarh



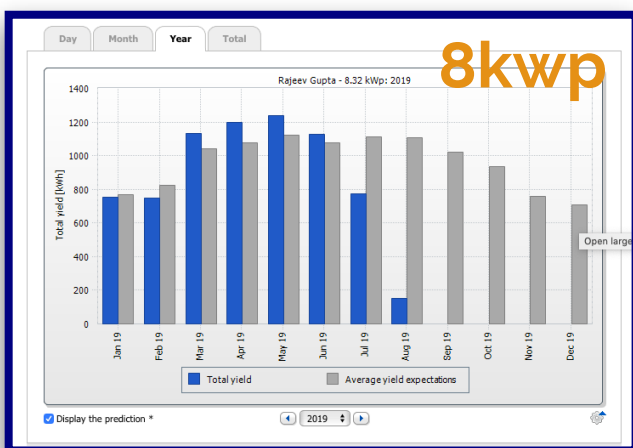
88280 Units of electricity produced in year 2018 from a 75 kWp project at Greater Noida



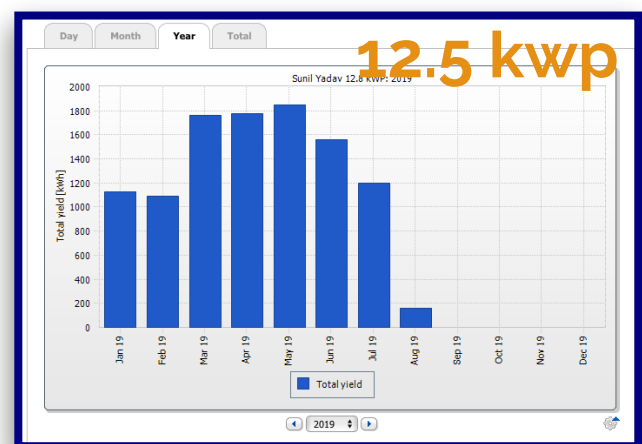
12590 Units of electricity produced in year 2018 from a 10 kWp project at Kolkata




103780 Units of electricity produced in 7 months from a 120 kWp project at Kanpur



11590 Units of electricity produced in 7 MONTHS from a 8 kWp project at Ambala



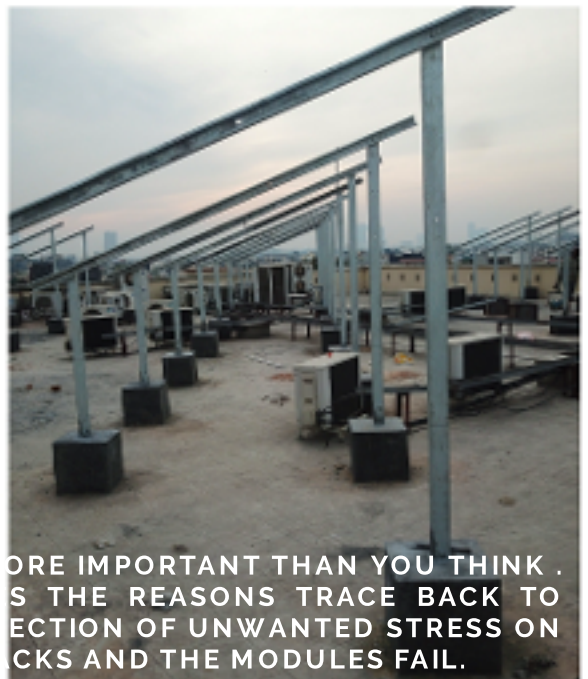
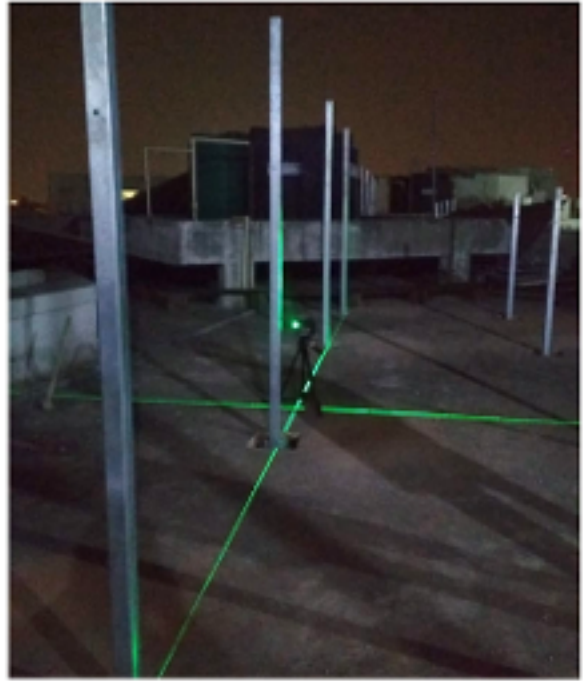
10400 Units of electricity produced in 7 months from a 12.5 kWp project at Gurgaon



"IF SOLAR
PLANT IS
COMPARED
TO THE
HUMAN
BODY
THEN
SOLAR
MODULE
MOUNTING
STRUCTURE
IS THE
SKELETON"

LASER GUIDED STRUCTURE FIXING

ALIGNMENT OF THE SOLAR MOUNTING STRUCTURE IS MUCH MORE IMPORTANT THAN YOU THINK . MAJORITY OF THE SOLAR PLANTS FACING MODULE FAILURE THE REASONS TRACE BACK TO IMPROPER ALIGNMENT OF THE MODULE STRUCTURE AND SUBJECTION OF UNWANTED STRESS ON THE SOLAR PANELS . CONSEQUENTLY THE CELLS DEVELOPS CRACKS AND THE MODULES FAIL.






For wind speeds upto 200 km/hr

- All fixing to be done on mother slab only.
- Usage of Nitto bonds helps bonding between old and new concrete.
- M20 Grade civil pedestals.



EARLY STREAMER EMITTER LIGHTNING PROTECTION

"IF A SOLAR
PLANT IS
COMPARED
TO THE
HUMAN
BODY THEN
GROUNDING
& LIGHTNING
PROTECTION
IS THE SKIN"



Non electronic External Lightning radial protection system based on proactive Early Streamer Emission (ESE) technology. Device shall emit corona in the form of a streamer into the air microseconds earlier than naturally formed streamers. Device confirming to NFC 17-102 Standards and certified by international lab and authorize to MRD and NATO as well. Appropriate mounting arrangement should be there. The device shall be mounted at least 2 meters clear to the highest point on the roof top . Radius of protection 107 mtrs in level-III Model



LOOK OUT FOR

- Proper earth pit digging and filling .
- Fully Sleeved earthing strip for safety & protection.
- Multiple earth test readings considering different reference points .
- All stainless steel saddles and screws .
- All screws tightened using cordless screw driver, no hammering.
- Go for environment friendly back-fill .
- An extra earthing for each inverter is recommended.





58 kWp Modern Udyog , Karnal (HR)



13.65 kWp residential , Chandigarh



49 kWp APS, Mewat (HR)



175 kWp Palmy Foods, Varanasi(UP)



35 kWp compact packers , Chandigarh



10 kWp residential , Gurgaon



132kWp IRUS, Kanpur (UP)




50 kWp Off Grid -Scholars Global school , Bahadurgarh(HR)



220 kWp Suri Shoes , Kanpur (UP)



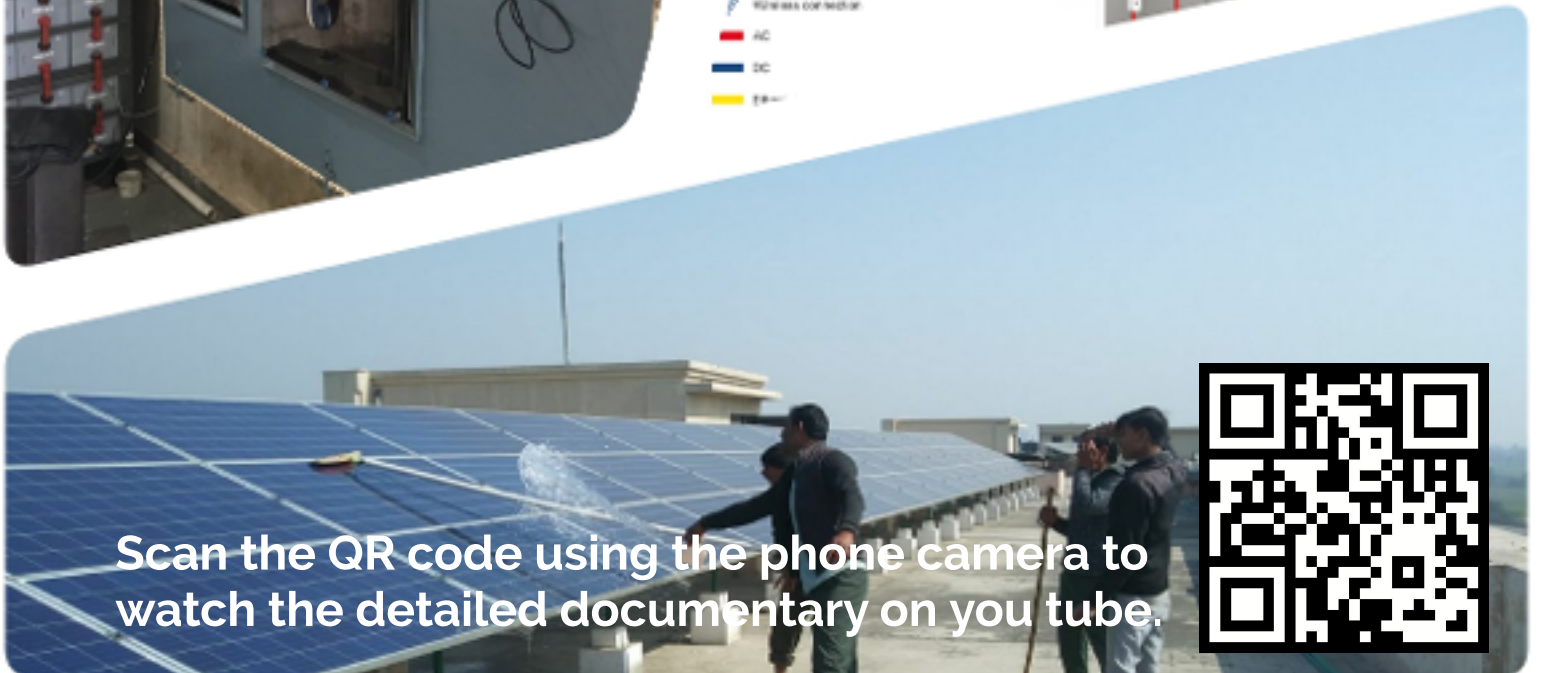
**"IF A SOLAR
PLANT IS
COMPARED
TO THE
HUMAN
BODY THEN
PLANT
DESIGN &
EXECUTION
IS THE SOUL"**

A person with dark hair, wearing a black t-shirt and dark pants, is kneeling on a light grey floor. They are working on a complex electronic setup that includes a large black and yellow inverter or charge controller mounted on a metal frame. Various cables, including yellow and blue ones, are connected to the device. The background is a plain, light grey wall. The overall scene is a technical demonstration or installation of a solar power system.

SALIENT FEATURES OF THIS SOLAR POWER PLANT

- 1) SERVES THE LOAD AT UPTO 98.4% EFFICIENCY .
- 2) 50 KW DC SIDE
- 3) A 50 KWP SOLAR PLANT CAN FEED A LOAD OF 30 KVA FROM MORNING TO EVENING.
- 4) IDEALS FOR SCHOOLS AND COMMERCIAL ESTABLISHMENTS WITH DAYTIME OPERATIONS
- 5) AC COUPLED OFF-GRID SYSTEM FROM SMA GERMANY
- 6) 10 YEARS WARRANTY
- 7) 5 YEAR BATTERY WARRANTY
- 8) EXPECTED BATTERY LIFE 7-8 YEARS
- 9) GEL BATTERY ZERO MAINTAINANCE BATTERY
- 10) LIFETIME REMOTE MONITORING INCLUDED
- 11) HIGH QUALITY STABLE VOLTAGE (WITHOUT ANY FLUCTUATIONS OR SURGES)

**HELIUMFOUR OFF-GRID
DIESEL ELIMINATION PROJECTS**



Scan the QR code using the phone camera to watch the detailed documentary on you tube.



REACH US

[HELIUMFOUR SOLAR PVT LTD](#)

(+91) 8826199251

(+91) 8800407054

66-A UDYOG VIHAR PHASE 5
GURUGRAM , HARYANA
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