SARN Solar Solution Private Limited



AN OVERVIEW

Presented By Mr. Rakesh Naskar

Director

Presently involve in Research work School of Energy Studies Jadavpur University Ex Assistant professor (11+yrs Expérience)





SARN SOLAR SOLUTION PRIVATE LIMITED







7980181480 / 9432689034

www.sarnsolar.in M sarnsolar@gmail.com / contact@sarnsolar.in

Solar Appliances & Project Service Company

- আপনার সখের বাড়িতে আধুনিক প্রযুক্তির সোলার সিস্টেম লাগান এবং অতিরিক্ত বিলের বোঝা থেকে মুক্ত হন ২৫ বছরের জন্য।
- পুরোপুরি ভাবে লোডশেডিং এর হাত থেকে মুক্ত হন। নিজের বিদ্যুৎ নিজেই তৈরী করন সোর শক্তির মাধ্যমে।
- EMI এর সুবিধা আছে।

"SWAPNA NEER" Apartment (1st Floor) R.N.C Road, Subhasgram, Kol – 700147

ON-ORID SYSTEM OFF-ORID SYSTEM SOLAR STREET LIGHT SOLAR DRINKING WATER SYSTEM



SARN Solar Solution Pvt. Ltd.

SARN: Sensitive Awareness through Revolution Network

Solar Energy The Ultimate Renewable Resource



OUR MISSION



- To bring revolution on Green Energy utilization through awareness by proper campaigns.
- To become the leader in development design of large scale solar installations, solar plants and solar parks and to promote and commercialize the use of solar energy to reach remotest corner of West Bengal firstly then India.
- To become leader in exploring new technologies and their deployment to harness solar energy

VISSION



To bring revolution through harnessing abundant solar radiation and to achieve energy security by its proper utilisation for our state, for our country.

Objective

The focus of SARN activities is on its subsidiaries and competence in the highgrowth regions in India by providing low cost high efficiency system.

OUR GOAL



□To introduce renewable energy utilization for the future and highlighted more and more in front of unawareness public.

□To ensure Solar power remains the most secure source of energy for the future.

□To set global standards in achieving this goal firstly in India and then abroad.

■To involve on invention of suitable and economical design of solar charge controller, battery, solar inverter and also on up gradation of technology of different solar appliances through their continuous involvement by Our research Section.

□To involve in doing research & development in collaboration with State University.

The Area of Competences of solar appliances

- □ Technology
- Engineering & Innovative Structure Design
- □ EPC & I&C Projects
- Research & Development
- □ Training on SPV Installation
- □ Consulting & Services on CAPEX & RESCO PROJECT
- □ Any kind of Solar Project Execution & AMC Services.



The Area of Competences at other Sector except Solar EV Charging Station Installation 7980181480 **CCTV** Installation □ Fire & Safety Solution Electrical Control Panel solution Consulting & Services **COMPLETE ONE STEP SOLUTION**

Why Choose SARN Solar Committed to helping its clients □To reach their goals □To personalising their experiences with highly Experienced Professors. To providing an innovative environment In collaboration with Jadavpur University Renewable Energy Department. Making a difference in regards to □Safety & Security **Quality Control Costing at it's best quality standards**

SARN Solar Solution Private Limited Introduction



Our Management Team:

- Dr. (Prof.) Ratan Mondal (Honorable Advisor)
- Mrs. Sonia Naskar (Honorable Director)
- Mr. Rakesh Naskar (Director)
- Mr. Sushanta Auddy (Joint Director)
- Mr. Ayan Ghosh (Executive Engineer)
- Mr. Amit Roy (CA)
- Mr. Gopal Mistri (Accountant)
- Mr. Ashoke Mondal (Accounting Consultant)
- * Ms. Priyanka Mondal (ADV.) (Legal Advisor)

Our Business Development Team:

- Gereich Mr. Ansar Ali (Business Developer, Kolkata)
- □ Mr. Swarup Dey (Business Head, WB)
- □ Mr. Anirban Banerjee (Business Development Associate)
- **Some Highly Renowned & Dedicated Persons also associate with us for SARN Solar Business Development** Our Installers:
- Notun Bera with his Team
- Bibekananda Chakraborty with his Team
- Koutuk Mistri with his Team



COMPANY DOCS



2nd Surve. Due : 24/04/2021

A 24 100133

0

19DEE194

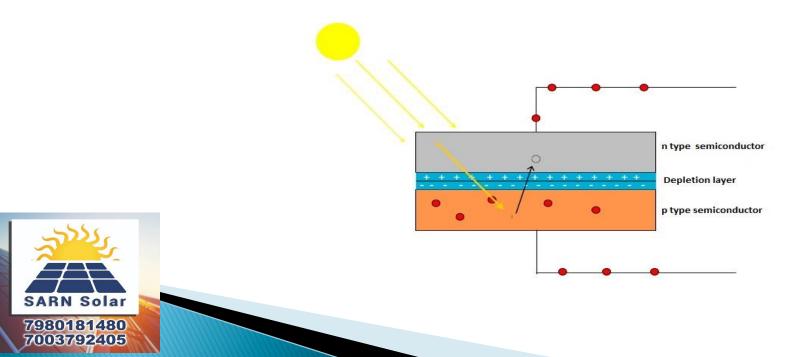


Ministry of MSME





- Visible wavelength of sunlight has capability to make electrons flow in certain directions in semiconductors.
- This phenomenon is called photoelectric effect and PV cells are used for electricity generation in Solar power plants.





HOW SOLAR POWER GENERATION WORKS

- The electricity produced by PV modules is in the form of Direct Current (DC) and is converted to (AC) using specially designed Solar inverter.
- An electricity generating plant by sunlight is designed such that it produces uniform voltage at specific frequency in spite of varying sunlight in the day (In Sun Peak Hours)

Solar Policy in West Bengal



- WBERC has allowed 1-5 Kw Solar On-Grid system with Net Metering facility for domestic consumer who has a sanctioned load below 5 Kw.
- WBSEDCL has introduced a subsidy scheme in collaboration with MNRE for successfully implementation of this policy.

Up to 3 kw 40%;

Above 3 kw to Upto 10 kw 20%

- Subsidy scheme is not applicable for the commercial consumers.
- The consumer(Domestic or Commercial), who has a sanctioned load for more than 5 Kw, they have to go for "Net Billing".

Advantages of Solar System



- Make a green environment at your industry premises.
- Reduce your factory carbon footprint.

Take benefit, on applying for a loan due to

implementation of green energy at your factory premises.

Get Benefit of Tax Holiday and Tax return in terms of depreciation

✤ Assured (guaranteed) 20% annual return in terms of saving of electricity bill by single time investment for minimum 25yrs.

Comparison with others



Our Project State University Renewable Energy Department Certified After Physical Verification

Best Optimization Technique By Using Software Like PVSYST(Simulation Report), AUTOCAD (Structural Design), SKETCH UP (Shadow Analysis), STAAD PRO (Wind Analysis of Structure) and Etc.

> Auto clean System ; Nozzle type for high pressure





Comparison of Electricity bills



		12 miles	
		(CONT	Δ.
			2
FICE	OF	THAT	NA
		PERMIT	

Hest Seenged Heat Steelsteiky Distribution Company Ltd. () Covernment of two begal Exterption 24-PARADAS (RETH) REZIGNAL OFTIC RAL MANAGER, ALMINISTRATIVE BUILDING , BJ. DOAD, VINCH RACAR, MORDAN J. PIN- 700119

MONAL MANAGER , ALMINISTRATIVE BUILDING , B.T.ROAD, VIVEK NAGAR,KHARDAH , PIN- 700119 (591 , Fax: 2593-1841 , Email: CM.24PNDC8GMAIL.COM , CORPORATE TAN:CALM02888E

Installation No.22063482 Bill R.R.Y.B STUDENT LITERACY MISSION Bill VILL-RATHER F.O-BADD,24-PGB(B) Press Pin - 700128 Serv Country:India Bill			Billi Billi Prese Previ Servi BILL Accou	cm Re. 468000147512 cm Re. 468000147512 mg cycler0CT.2021 mg cycler0CT.2021 cm Reading Dates01.11.2021 cm Reading Dates01.11.2021 cm Reading Dates01.10.2021 cm Reading Dates01.10.2021 mm Rea						Tariff CodesC-TD Supply Voltage(RV)10.40 Contract Demand(RV)165.00 PP:0.9856 INSTITUTE(P) INSTITUTE(P) Pan NorAAATR6521P						
Meter No	GL5B00	29	Туре	W	HC	MF 1		.000	0 Loss Factor			1	Not MF	1		
Meter Reading			10	ZAH .	-	-	1 4	-	KWH				907	1 / Dt. 6 1	Name of	of MD
Time	Non	mal	Peak	250	Off-peak	_	Normal		Peak		Off-peak		Normal	Peak	1100	Off-peak
Present	155	336.00					15315	3.00	and the second second				25.600			
Previous	151	101.00					14897	9.00		_		_				
	-		10	AH			-		10	NH	10	_		KVZ		
Reading Adva * Net MF	ance 423	85.000	0.000		0.000		4174.	000	0.000		0.000		25.600	0.000		0.000
Energy Charg	6				Normal		Pes	sk		Of	f-psak		Energy/Min	Charge (Rs)	260	04.02
Rate	EC (p/K)	(11)			623					\square			Rebate on EC(Rs.)		0.0	0
P.F.Rob(-)/Sur(+) (%onEC))	-4.00					\square					0.000203.000			
	L.F.Bab (-) (p/RMH)			0.000								Addl.EC(Rs.)		0.0	00	
Chargeable KNH			4174.0	4174.000 0.00		00	0.00			Total EC(Rs.)		26004.02				
IEC Amount	Rs.				26004.0200 0.00				0.	0.00						
Chargeable	PF	PF			0.9856							1				
PF.	Rø.			-1040.16												
Demand Charg	9												*Demand Cha	irge	140	025.00
Rate	Normal	(Rs/KVA/m	onth)		255.00							Addl.DC(Rs.)			00	
Chargeable	Normal	KVA			55.00						Total DC(Rs.)		140	025.00		
	Addl.K	VA			0.00						Beb on DC					
Rebate (~) /Su:) (Rs.)														
LF Reb (-) /Su	(+)														0.0	
PF Reb (-) /Su	(+)													40.16		
MVCA Charges													960	.02		
###Government	: subsidy	05														
## Other Arrs	ar Charg	95													0.00)
Electricity	Duty															
EDIM Units		00.00			%On Net	%On Net Charge			15.00	15.00			Net ED(Rs.)		932	.41
EDCOM Units		4174.	00		%On Net char		ge 1		15.00				Exemption (Rs.)			
EDFUR Units		00.00			%On Net char				5.00			#Arrear ED(Rs.)			.00	e
ED DOM Units 00.00			%On Net	char	rge		15.00)	1		ED Adjust (Rs)					
		~			-							1	Total ED(Rs.)		932	.41
Other Charge			21.)							-,-						
Rental of Meter/Meters			1200.0	0				4	Amnt. For Current Month(Rs)				47081.29			
Transformer		GST			0.00					4	Due Date :					16.11.2021
E.C adjustme									4	Outstanding Amount(Rs.): #					0.00	
D.C adjustmes					-					4		Adjustment Amount (Rs) :				-0.95
Other adjustment								Adjustment Amo				unt1(Rs): ~~			0.00	

LPSC Charges Adjustments Timely Payment Rebate 		0.00	Payable by DueDate(Rs):	46681.0	
		-0.99	Payable After DueDate(Rs):	47081.0	
		-399.49			
		0.00	Payable by DueDate		
		-399.49	Through NEFT/RTGS (RS) :	46286.0	
Amount Before Due Date(Rs)	Forty six	thousand six hundred eig	hty one rupees		
Amount After Due date(Rs)	Forty seve	on thousand eighty one ru	poos		

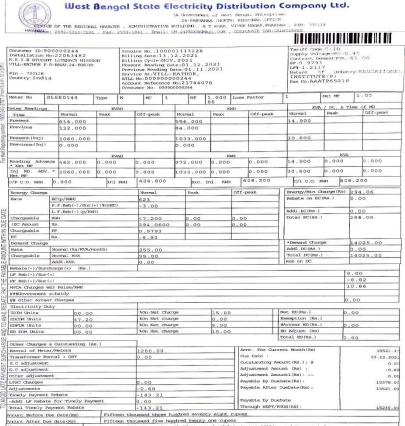
Messages to consumer Register your mobile No. and email Id at www.wbeedcl.in to get Billing and Payment in Payment may be made using RTGS/NET in your exclusive a/c no: NBB90000024422063482 with IFSC code ICIC0000104

*Demand Charge includes interruption benefit of 00:00:00 hours

Superintending Engineer/Divisional Engineer

For and on behalf Of West Bengal State Electricity Distribution Company Limited

Before Solar, Electricity Bill was Rs. 46,000/-



Nonine race loss decumper Mensanges to communer Mensanges to communer Mensanges to communer Mensanges to communer Mensanges to commune Mensanges to

> AVOID SIMULTANEOUS USE OF ELECTRICAL APPLIANCES SAVE ENERGY BY JUDICIOUS USE TO SAVE FUTURE GENERATION You may ledge the campiant for interruption for power supply through VRIs No. 1800-345-5521 mentioning the customer ID.

After Putting 30 Kw On-Grid Solar System, Electricity Bill became Rs. 15,000/-

Tax Credit of a 50 Kw Solar System costing analysis for ROI



Project	50 Kw On-Grid Solar Project
Estimation	2500000.00
Depreciation	40%

Year	<u>Cost After</u> Depreciation	<u>Tax savings</u> (33% Tax Slab)	Depreciated Value After Tax savings	<u>Unit</u> <u>Produced</u> per year	<u>Electricity</u> <u>Bill Savings</u>	<u>Total</u> Savings	<u>Cumulative</u> <u>Savings</u>
1	100000.00	330000.00	2170000.00	73000	584000.00	914000.00	914000.00
2	868000.00	286440.00	1883560.00	72270.00	578160.00	864600.00	1778600.00
3	753424.00	248629.92	1634930.08	71547.30	572378.40	821008.32	2599608.32
4	653972.03	215810.77	1419119.31	70831.83	566654.62	782465.39	3382073.71
5	567647.72	187323.75	1231795.56	70123.51	560988.07	748311.82	4130385.53
6	492718.22	162597.01	1069198.55	69422.27	555378.19	717975.20	4848360.73
7	427679.42	141134.21	928064.34	68728.05	549824.41	690958.62	5539319.34
8	371225.74	122504.49	805559.85	68040.77	544326.16	666830.66	6206150.00
9	322223.94	106333.90	699225.95	67360.36	538882.90	645216.80	6851366.80
10	279690.38	92297.82	606928.12	66686.76	533494.07	625791.90	7477158.70
11	242771.25	80114.51	526813.61	66019.89	528159.13	608273.64	8085432.34
12	210725.44	69539.40	457274.21	65359.69	522877.54	592416.94	8677849.28
13	182909.69	60360.20	396914.02	64706.10	517648.77	578008.96	9255858.24
14	158765.61	52392.65	344521.37	64059.03	512472.28	564864.93	9820723.17
15	137808.55	45476.82	299044.55	63418.44	507347.55	552824.38	10373547.54
16	119617.82	39473.88	259570.67	62784.26	502274.08	541747.96	10915295.50
17	103828.27	34263.33	225307.34	62156.42	497251.34	531514.67	11446810.17
18	90122.94	29740.57	195566.77	61534.85	492278.82	522019.39	11968829.56
19	78226.71	25814.81	169751.96	60919.50	487356.04	513170.85	12482000.41
20	67900.78	22407.26	147344.70	60310.31	482482.48	504889.73	12986890.15
21	58937.88	19449.50	127895.20	59707.21	477657.65	497107.15	13483997.30
22	51158.08	16882.17	111013.03	59110.13	472881.08	489763.24	13973760.54
23	44405.21	14653.72	96359.31	58519.03	468152.26	482805.98	14456566.52
24	38543.72	12719.43	83639.88	57933.84	463470.74	476190.17	14932756.69
25	33455.95	11040.46	72599.42	57354.50	458836.03	469876.50	15402633.19



0

Consider 5 kw 3ph system minimum as per wbseb Rules Price: 3.1 lac Roughly 3 lacs Invest fixed deposit at 8% rate gain 24000 /-System will provide 1200*5= 6000 unit* 7= 42000/- for 25 years as per system warranty After upto 60 years also you will gain (panel degradation $80\% \rightarrow 30\%$) Your ROI

invest ment	1 st yr	2 nd yr	3 rd yr	4 th yr	5 th yr	6 th yr	7 th yr	8 th yr	25 th yr As per Panel warranty and after 25 th yr generation going on
3lac	-42000 = 258000	-42000 = 216000	-42000 = 174000	-42000 = 132000	-42000 = 90000	-42000 = 48000	-42000 = 6000	36000	Total 42000*25= 10,50,000/ & going on



Sustainability determines the ways we think Renewability determines the ways never end.

So Determination of thinking never became end



One social contribution:

CO₂ emissions are about 1.12 (kg/kWh) as the Singrauli coal has 50.2 % carbon. Dadri, Chandrapur, and Dahanu plants emit about 0.82, 1.02, and 0.85 kg/kWh So, approx Think 1kg CO₂ per Unit generation we can save..... Also estimated that emit about 33 g/kWh SO2, whereas Kahalgaon plant emits only 2.72 g/kWh SO2 as the sulfur content in the coal used at this plant is only 0.17%. NO emissions per unit of electricity Reference paper: "Estimates of Emissions from Coal Fired Thermal Power Plants in India" Moti L. Mittal

COMPLETED PROJECTS

We have already Executed following Projects:

- 1) 80 kw at Jain college Cossipore
- 2) 10 kw at Jogomaya college, Bhawanipur
- 3) 10 kw hybrid at Asian export, Narendrapur
- 4) 6 kw On-Grid at Sri Avani Complex (26th Floor Rooftop), Ballygunj Phari
- 5) 5 kw on one complex common meter completed and one on-going.
- 6) 50kw at a school.
- 7) We are working on a few solar drinking Water projects and Solar Street lights under Government projects.
- •Training Campus
- [20 local youth]
- GST Franchisee activity through online operation

Under pipeline

Solar PV Installation training for micro enterprises SME (small, medium enterprises) training Capacity building & Project Consultancy Village level Social Engineering Activity for income generation (Plumbing, Electrician, Refrigeration etc.) Base line survey on Solar PV installation in Schools of 24 pgs(s) Consulting of woman Enterprises in West Bengal for Skill India initiatives. Fund Syndication on case to case consulting basis



Benefits from Higher to Lower Capacity Project



Putting an On-Grid Solar system, you will get the following benefits:

- 1. Make a green environment at your industry premises..
- 2. Reduce your factory carbon footprint..
- 3. Reduce Carbon Tax...
- 4. Get benefit of tax holidays...

5. Take benefit, on applying for a loan due to implementation of green energy at your factory premises.6. Assured (guaranteed) 20% annual return in terms of saving of electricity bill by single time investment for minimum 25yrs.



Our All Projects

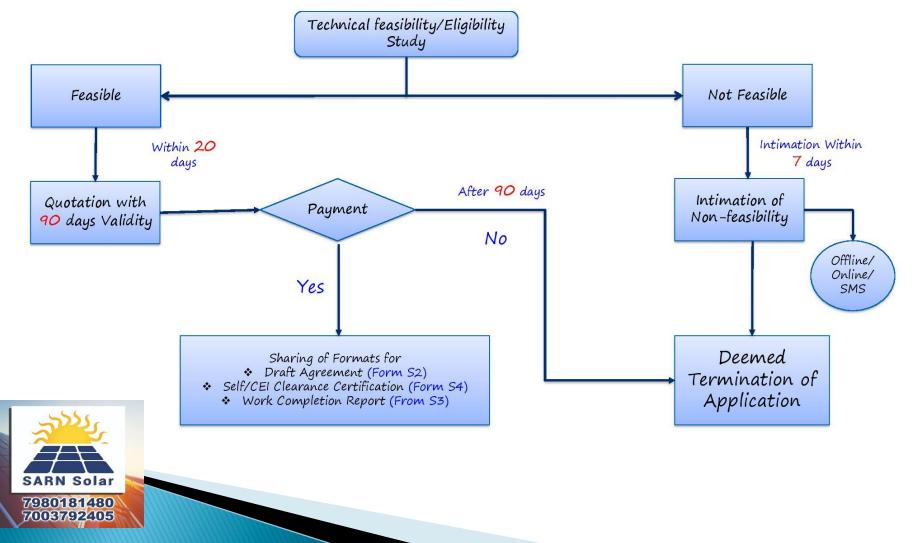




Application Procedure & Our Responsibility



APPLICATION REVIEW AND INSPECTION





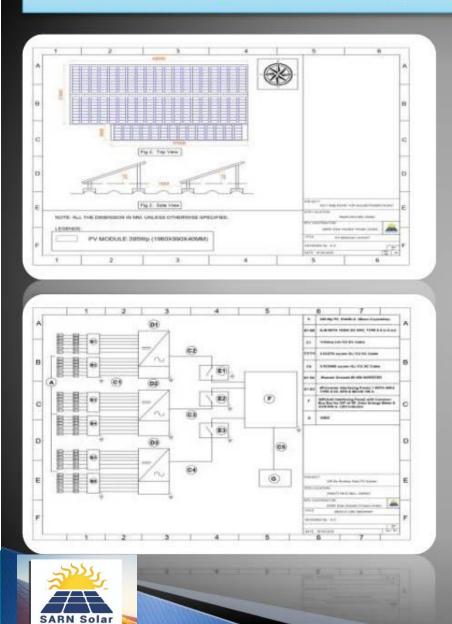
SARN Solar highest priority is customer satisfaction. We accomplish this by providing our customers with a personal solar concierge to help answer any of their questions. We also execute each and every step during solar installation progress. We use a simple 5 step process so that you can enjoy your new solar system.

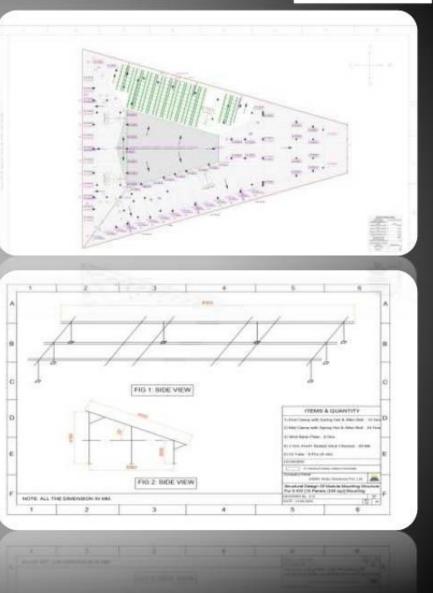
- 1. We ensure that you're eligible and qualify for solar.
- 2. We design a system to give you optimal solar output.
- 3. Our concierge team secures the necessary permits and permissions.
- 4. Our professional team installs your system.
- 5. You enjoy the benefits of owning your clean energy.



PV Plant Layout & Single Line Diagram

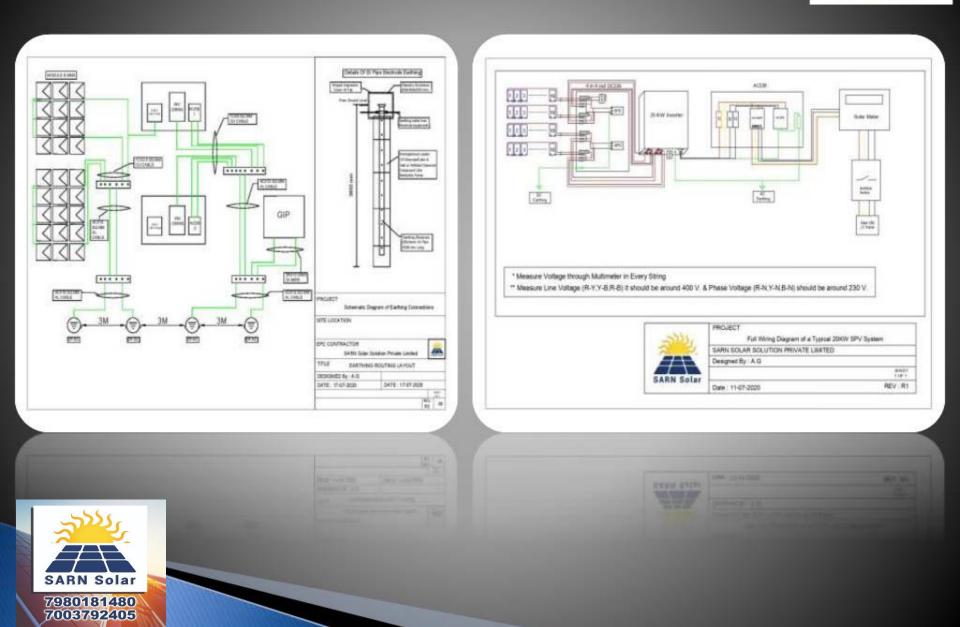






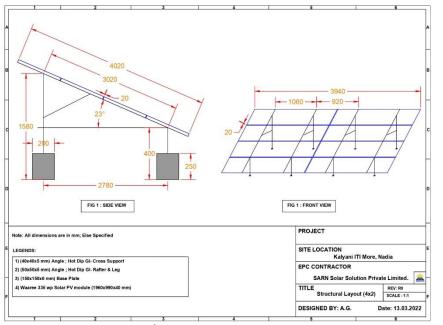
Structural Layout with Cabling Views





Structural Upgradation due to Wind Analysis Report:

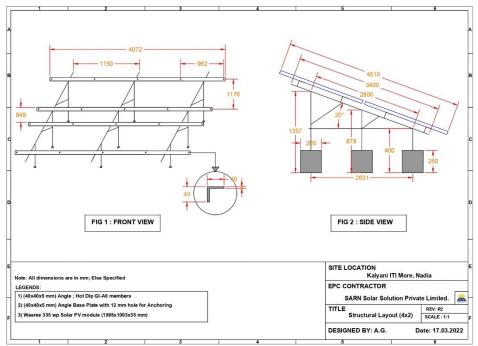




150 KM/HR WIND SPEED STRENGTH

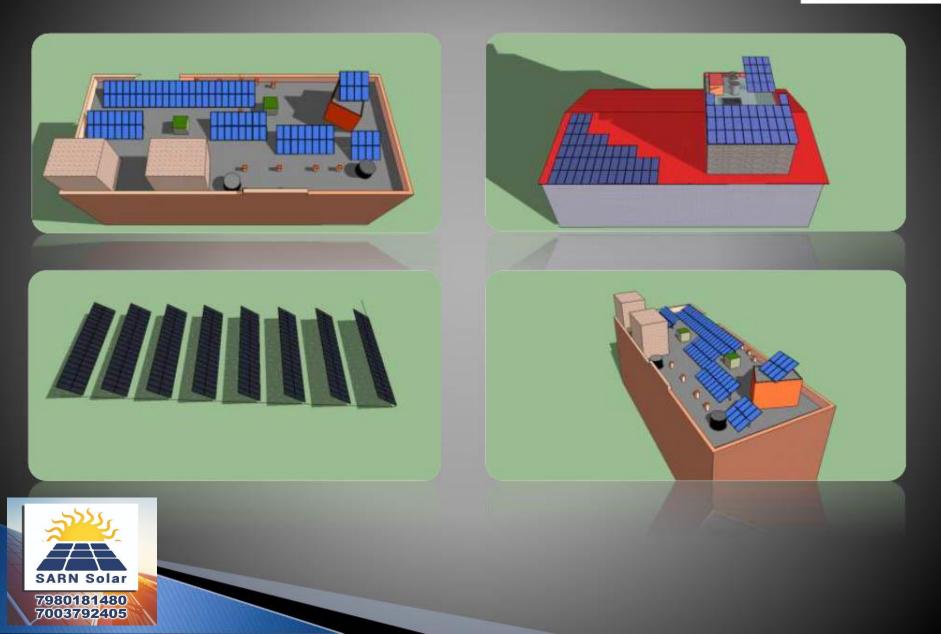


200 KM/HR WIND SPEED STRENGTH



3D Shadow Analysis View in Sketch up





"WHAT WE OFFER "

We Offer 'Concept to Completion' Services for Grid Connected, Off Grid with batteries & other Electrical solutions.

✤ We are doing project in collaboration with MSME, They will visit the site several times, do the final inspection and Certified on their Letter Head. That is Our main USP.

* We will provide Auto Clean & Remote monitoring system at free of cost

"STEPS INVOLVED "

STEP 1 : SITE & PROJECT ANALYSIS

Our Team Will Conduct A Thorough Feasibility Survey Of Your Site And Assessment Of Your Energy Needs.

STEP 2: SYSTEM DESIGN

We Do a Detailed Engineering Analysis That Enables Us To Define And Design The Location Of All Equipment Like Solar Modules, Mounting Structure, Inverter, Cabling And Related Civil Work Applicable To Your Specific Location Topography.

STEP 3: INSTALLATION AND COMMISSIONING

Our Certified Field Staff Manages The Entire Installation & Commissioning Process Including Civil Work Related With Above System.

STEP 4: LIAISONING

We Will Do Entire Documentation work From Solar Application To Net Metering Connection By Communicate With Electricity Dept. And Other Govt. Agencies.



Estimation of an Individual System





On-Grid Domestic System with Net Metering Facility:

1 KW ON GRID SYSTEM (With Complete Installation) MRP: Rs. 75,000/- + GST Our Price : Rs. 65,000/- + GST + Transport**

2 KW ON GRID SYSTEM (With Complete Installation) MRP: Rs. 1,35,000/- + GST Our Price : Rs. 1,20,000/- + GST + Transport**

3 KW ON GRID SYSTEM (With Complete Installation) MRP: Rs. 1,90,000/- + GST Our Price : Rs. 1,74,000/- + GST + Transport**

5 KW ON GRID SYSTEM (With Complete Installation) MRP: Rs. 3,00,000/- + GST Our Price : Rs. 2,85,000/- + GST + Transport**

On-Grid Commercial System with Net Billing Facility:

10 KW ON GRID SOLAR SYSTEM (With CompleteInstallation)MRP:Rs. 5,20,000/- + GSTOur Price : Rs. 4,80,000/- + GST + Transport**



30 KW ON GRID SOLAR SYSTEM (With Complete Installation) MRP: Rs. 14,00,000/- + GST Our Price : Rs. 12,50,000/- + GST + Transport**



50 KW ON GRID SOLAR SYSTEM (With CompleteInstallation)MRP: Rs. 23,50,000/- + GSTOur Price : Rs. 20,50,000/- + GST + Transport**



100 KW ON GRID SOLAR SYSTEM (With Complete Installation) MRP: Rs. 45,00,000/- + GST Our Price : Rs. 40,00,000/- + GST + Transport**



OPTIMIZATION

SARN Solar Solution Pvt.Ltd

One Stop Solar solution For Domestic & Commercial



320 watt OFF GRID SOLAR SYSTEM FOR HOME 675 VA 12 V SHAMSI Off grid inverter, 160 wp x 2 Solar Panel , 1Nos. 150 Ah Battery (5 Years Warranty) & Balance of System including Design & Installation at Site. MRP: Rs. 45,000/- + GST Our Price : Rs. 38,000/- + GST

9831289698/9432689034 sarnsolar@gmail.com www.sarnsolar.in



SARN Solar Solution Pvt.Ltd

One Stop Solar solution For Domestic & Commercial



1 KW OFF GRID SOLAR SYSTEM FOR HOME 1 KVA 12 V Gamma+ Off grid inverter, 330wp x 3 Solar Panel, 1Nos. 150 Ah Battery (5 Years Warranty) & Balance of System including Design & Installation at Site. MRP: Rs. 95,000/- + GST Our Price : Rs. 80,000/- + GST





Off-Grid Domestic System



Off-Grid Domestic

System

Solution Pvt. Ltd has been established in 2019 as a SARNS Solar Solution PV: Fut has been controlled in Kolleata, West Bengal liasion of the company is to promote a green revolution with a on to Conserve natural resources where in one can generate ah the infinite & free Re sources "The Sun Lis



One Stop Solar solution For Domestic & Commercial





500 watt OFF GRID SOLAR SYSTEM FOR HOME

675 VA 12 V SHAMSI Off grid inverter, 160 wp x 3 Solar Panel , 1Nos. 150 Ah Battery (5 Years Warranty) & Balance of System including Design & Installation at Site. MRP: Rs. 60,000/- + GST

Our Price : Rs. 50,000/- + GST



9831289698/9432689034 sarnsolar@gmail.com . www.sarnsolar.in



SARN Solar Solution Pvt.Ltd



One Stop Solar solution For Domestic & Commercial



2 KW OFF GRID SOLAR SYSTEM FOR HOME 2.2 KVA 24 V HELIAC Off grid inverter, 330wp x 5 Solar Panel, 2 Nos. 150 Ah Battery (5 Years Warranty) & Balance of System including Design & Installation at Site. MRP: Rs. 1,80,000/- + GST Our Price : Rs. 1,30,000/- + GST







9831289698/9432689034

sarnsolar@gmail.com

www.sarnsolar.in

ON GRID SOLAR PV SYSTEM



- Also called Grid Tied system
- No batteries.

1.

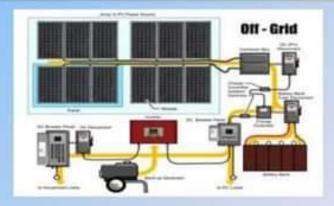
2.

- Power generated is partially used and rest supplied to grid
- 4. Minimization in Electricity Bill



OFF GRID/HYBRID SOLAR PV SYSTEM

- Power generated is used during the day time for all appliances
- Excess power gets stored in the batteries for usage
- 3. ZERO electricity bill
- 4. It can operate as a backup power supply during blackout for a long at a time of Natural disasters.



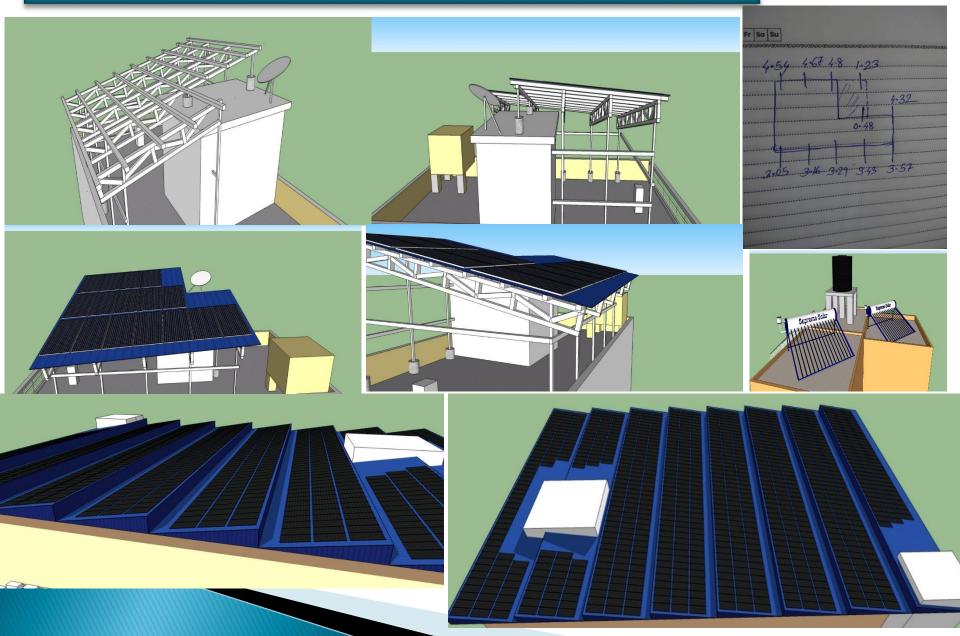
SOLAR LED STREET LIGHT & SOLAR WATER HEATER



We also deal in Multi branded (ISO 9001 & ISO 14001) Certified Solar Street Light ,Solar home appliances and Solar Water Heater.

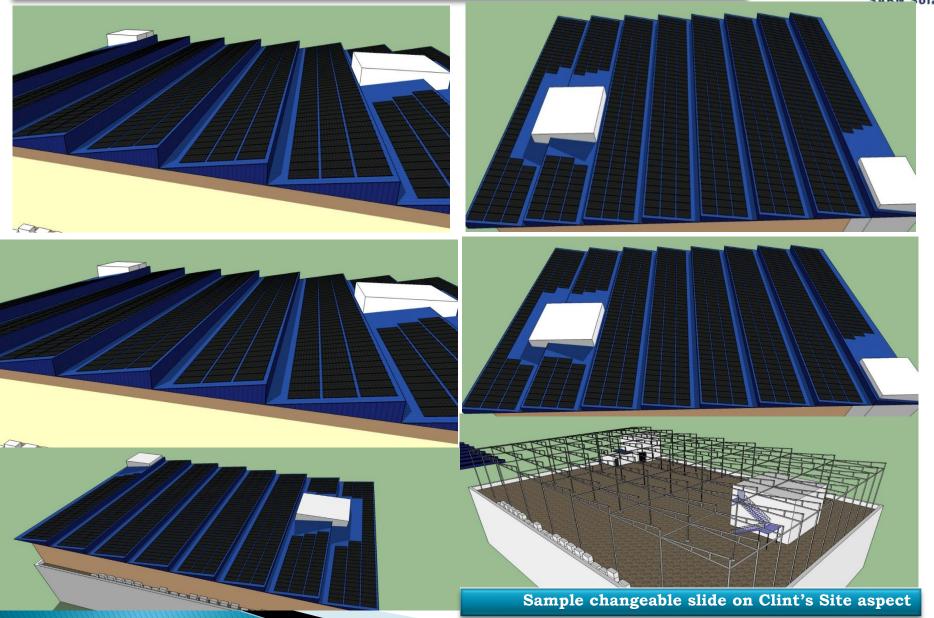
Project Preview





Clint's Site Preview





Project Preview (Animated & Actual)





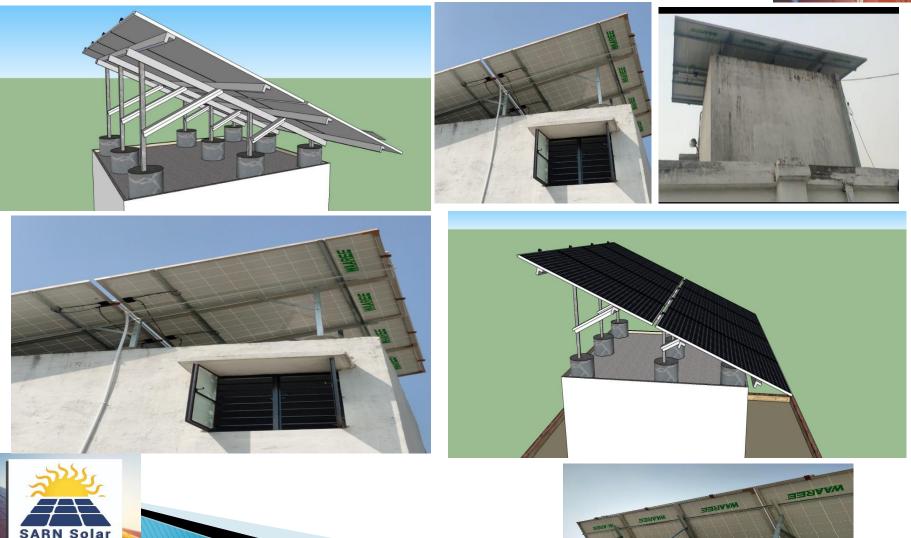


Designed View

Actual View

Project Preview (Animated & Actual)





USE OF SOFTWARE'S:



- AUTOCAD
- ST&&D PRO
- SKETCH UP
- PV SYST
- HELIOSCOPE

*****After Work Order and Advance Payment We are Providing SLD, Financial Report, Structure Design, Wind Analysis Report, Delivery Challan, And Project Commissioning Report & All necessary Documents.



Our On-Grid Project Certified by State University Renewable Energy Department :

ষাদ্বপুর বিশ্ববিদ্যালয় *JADAVPUR UNIVERSITY 4 KOLKATA-700 032, INDIA কলকাতা-৭০০০৩২, ভারত "JADAVPUR UNIVERSITY याभवभूत विश्वविद्यालय KOLKATA 709 032, 18191A SCHOOL OF ENERGY STUDIES TATIOI-900008, 3183 SCHOOL OF ENERGY STUDIES. Date: 03/12/2021 To Whom It May Concern Dated: 10/12/2019 This is to Certify that the Solar PV Power Plant (On-Grid) having capacity of 50 Kw peak, is executed by M/S SARN Solar Solution Private Limited on the roof of "Bodhisukha School" under R.R.Y.B Student Literacy Mission at Kathor Road, Barasat, Kolkata, West Bengal 700128. The Connected System is Completely To Whom It May Concern Designed by maintaining proper parameters and with help of relevant software and Executed with Innovative Structural Design, Auto Clean system, a great workmanship and with the wind analysis report by "Staad Pro". This Innovative Structure can withstand a wind speed up to 180km/hr as per the report. The plant is This is to certify that the Solar PV Power Plant (Grid Connected) having capacity of 06 kW peak, installed by M/s SARN Solar Solution Pvt. Ltd. (W.B.) on the roof of "SRI AVANI" visited and inspected. It is to mention that the different components of the system are working fine and complex at 60, Ballygunge circular road, Kolkata - 700019. The connected system is working found satisfactory; Net Metering Connection is also completed from WBSEDCL side. in good condition. The plant is visited and inspected, it is to mention that different Further to mention that the undersigned have no financial liabilities on the said components of the system are working and found satisfactory. project. Further to suggest that net meter is to be provided to get full benefit from the system. We are always with you for any kind of Academic Program in future. Also it is suggested for proper stair case to access the SPV panel installed area. Rotaneade 03/12/2021 Prof. (Dr.) Ratan Mandal Dr. Ratan Mandal Igipping **Professor & Director** School of Energy Studies Jadavpur University Kolkata-700032 Associate Professor & Director School of Energy Studies Jadavpur University Kolkata - 700032 ⁶ Established on and from 24⁶ December, 1955 vide Natification No.10986-Edn/IL-42/55 dated 9⁶ December, 1955 under Jadavpur Univ (West Bengal Art XXXIII of 1955) followed by Jadavpur University Art, 1981 (West Bengal Art XXIV of 1981) davpur University Act, 1955 School of Energy Studies 11 + AS-00-2858-0000 Phone : +91-33-2414-6823 : +91-33-2414-6853



Sample Certificate

* Established on and from 24* December, 1955 vide Notification No.10986-Edu/El-42/55 dated 6* Oceanher, 1955 under Jadavpur University Act,1955 (West Bengal Act XXXIII of 1955) followed by Jadavpur University Act, 1961 (West Bengal Act XXIV of 1981) 2009/01 - + 50 - 60.00 - 00.

HARINI + 22-00-5828-0050

P

Phone: +91-33-2414-6823 Fax : +91-33-2414-6853

Level of Authentication :





Ref No. WBERC/B-108(Part)/ 541

Dated, Kolkata, the 01st April, 2021

From : Smt. M Guha Roy, IAS Secretary, WBERC

To Mr. Ayan Ghosh Executive Engineer SARN SOLAR SOLUTION PRIVATE LIMITED sam.solar@gmail.com

> Sub : Implementation of 1 kw to 5 kw Net metering in domestic Sector as per Regulation REGU-71- regarding

Ref : Your e.mail dated 24.03.2021

Sir,

In inviting a reference to the above, I am directed to inform that in terms of the amended regulations net metering for the domestic consumers having sanctioned load of 1 kw to 5 kw is effective from the date of publication of the regulations i.e. from 22.12.2020.

This is for your information and necessary action.

Yours faithfully, more Secretary

Letter net metering

Tel : (033) 2962 3756 Fax : (033) 2962 3757

Plot No : AH/5 (2nd and 4th Floor), Premises No : MAR 16-1111 Email: wberc99@gamil.com/cp-wberc@gov.ir Action Area-1A , New Town, Kolkata - 700163 Website: www.wberc. gov.ir





West Bengal State Electricity Distribution Company Limited (A Government of West Bengal Enterprise) Solar Power Generation Department 3rd Floor, Data Center Complex, Street No. 41, Action Area-I, New Town, Kolkata – 700 163 Mob: 8900793309, 8900793310, 8900793329 Website: www.wbsedcl.in, e-mail:www.solarwbsedcl.com CIN: U40109WB2007SGC113473

Memo No: WBSEDCL/SPGD/RTS/404

Dated: 29-12-2021

To. SARN Solar Solution Pvt Ltd. SWAPANA NEER Apartment, 1st Floor, R.N.C Road, Subhashgram, Kolkata700147 Email-ID sarn.solar@gmail.com

Sub: Letter of Intent (LOI) for the work of "Empanelment of Agencies for Design, Supply, Installation, Testing & Commissioning of Grid connected Rooftop Solar Photovoltaic Systems in Residential premises, aggregating to 50 MWp, including five years comprehensive maintenance in the State of West Bengal during the Year (2021-22)"

Ref: NIeT No: WBSEDCL\SPGD\RTS Phase-2/2020-21/NIT-28/dated 25/08/2021

Dear Sir,

West Bengal State Electricity Distribution Company Ltd.is pleased to place this Letter of Intent (LOI) regarding your proposal submitted in conjunction with all the specifications, terms & conditions of the Bidding Documents, Prebid reply and your bid with subsequent consent for the scope of work covering "Design & Engineering, Manufacture / Procurement, Testing, Supply, Installation and Commissioning of 50 kWp or Applied capacity whichever is more for Grid Connected Rooftop Solar PV Power Plants including five (5) years Comprehensive Maintenance on turnkey Basis at various location of West Bengal under MNRE Rooftop Phase-II scheme for residential sector ".

1. Contract Price and Quantity Variation: WBSEDCLrcservestheright toalter, amend, omit, quantity of allotment of PV capacity up to the NIT guideline.

- 2. Scope of Work :Details scope of work and terms of work will be guided by the terms of the NIT
- 3. Controlling Officer of the Work: The Chief Engineer SPGD, will be the Controlling Officer of the work.
- Supervising Officer of the Work: The Station Manager of the concern customer care 4. center, WBSEDCL will be the Supervising Officer of the work.

Juna? Page 1 of 2

West Bengal State Electricity Distribution Company Limited (A Sovernment of West Rengal Enterprise) Solar Power Generation Department r, Data Conter Complex, Stress No. 41, Action Arco L, New Town, Kolkete - 700 165 Mobile Bell 2019 States States (Bellow States) Websites www.whiseficf.in.commit www.efstructuredcif.com Enterprised States States States States States States

- Paying Authority of the WerkiAGM P&A SPCID, WISSEDCI, is the Paying Authority of subsidy approved and released by MNRE, GoLOther than subsidy amount will be paid by Individual beneficiary to the vendor.
- Correspondences: All the correspondences related to the contract are to be made at the following All the correspondences results to a super-trans Coner Depineer, NFCI WithSPECT, 3rd Floor Data Center Complex WithSPECT, 3rd Floor Data Center Complex Notions - 700 103 Security Jennami He date of Issuance of Rhis Lether of Intent, the date of Issuance of Rhis Lether of Intent, You use also requested to execute the contract agreement as pur NT.
- Please acknowledge the receipt of LoL

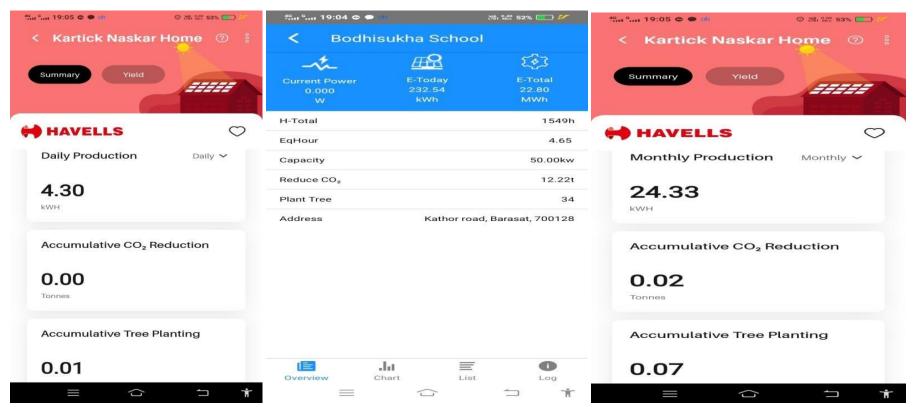


Project Analysis / Review



Polycrystalline panels have lower efficiency rates typically in the 15-17% range. Where Monocrystalline panels have higher efficiencies in the range of 17-20%. Because of the lower efficiency rate they are not as space-efficient since they produce less power per square feet Space which required around 20% higher space comparatively.

Here clearly mention on dated (07/04/2022) generation at our system 1kw with polycrystalline 4.30 units where as today's Mono PERC 1kw generate 4.65 units at our 50kw Bodhisukha school project. Both systems are with auto clean system.





At SARN Solar we love our customers and we are dedicated to helping you to the best of our abilities. Here are a few ways that you can get in touch with us to get help.

SEND US AN EMAIL

Sends us an email with any questions you might have and we will be happy to respond to them. <u>sarnsolar@gmail.com</u> / contact@sarnsolar.in



GIVE US A CALL/ WHATSAPP

Give us a call with any questions you might have and we will be happy to help. 9432689034/7980181480/9432689035

CONTACT US: EMAIL sarnsolar@gmail.com / contact@sarnsolar.in



THANK YOU

Then

FOLLOW US:

- GOOGLE SEARCH (SARN SOLAR)
- FACEBOOK PAGE
- INSTRAGRAM PROFILE
- YouTube
- www.sarnsolar.in



GIVE US A CALL/ WHATSAPP 9432689034/ 7980181480/ 9432689035

..........Gain, Better than Your Expectations.