BHAMBRI s o L A R



JOIN US IN OUR ENDEAVOUR TO MAKE SUSTAINABILTY A REALITY





11:30 AM - 01:00 PM

WELCOME

I am so excited to have you all here to participate in **"RETHINK – Architect Solar Series -1"** Program.





WHO IS THIS FOR

Architects: Home, Buildings, Factories, Green Buildings Auditors

Builders: Flats, Societies, Factories, Buildings, Developers

Interior Designers & Designers

Consultants: HVAC, Electrical, Civil & Mechanical

Students



Who Am I



INDIA'S #1 ZERO BILL EXPERT

CREATOR OF "3 STEPS TO ZERO ELECTRICITY BILL" BOOK











#1 KYB PROTOCOL EXPERT











The Journey







The Secret

Investing in Self Upgrading my skills



















Testimonial



Mr. Rohit Nagia (Greenacular Architect)





Testimonial



"With Air conditioners running 24*7 in summers, the bill was rocket high in summers. Ruchi suggested a solar plant with tracker. We also felt the difference in the cooling in the rooms below. Great products at a wonderful price!!!

Mr. Sanjeev Jain (CEO of TNS networking)





IF SO, TELL ME "READY" NOW IN YOUR CHAT BOX...

IF I SHOW YOU HOW YOU CAN GET EFFICIENT SOLAR PLANT WITHOUT CHANGING YOUR DESIGN, WILL YOU PROMISE ME TO ACTUALLY DO IT,





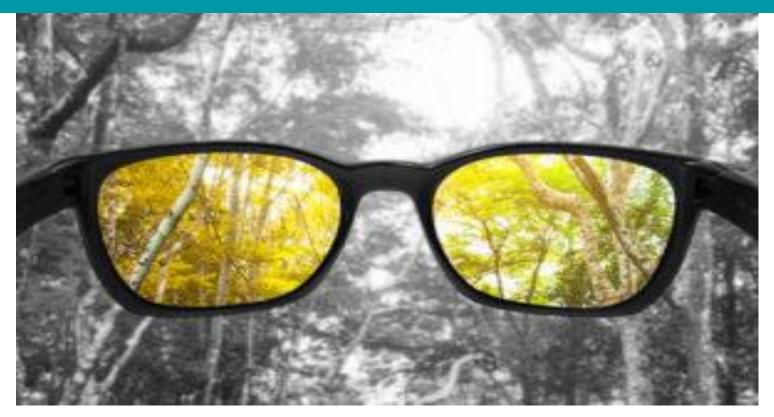
I know this

This is not for me





What Do You See





THOUGHTS





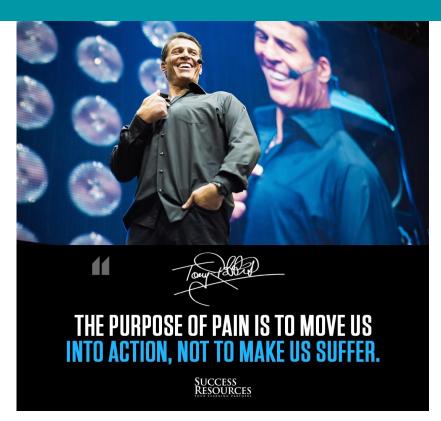
This is the Experience of many Architects, Builders & Interior Designers

- Solar plants spoiling the looks
- Puncturing roof
- Confusing Govt. policies
- Choosing the right solar system





TONY ROBBINS





TODAY YOU WILL DISCOVER



HOW TO DESIGN THE MOST EFFICIENT SOLAR SYSTEM WITH FASTEST ROI

DIFFERENT & LATEST SOLAR TECHNOLOGIES WITH LATEST BRANDS



TODAY YOU WILL DISCOVER

- WAYS TO INCREASE EFFICIENCY BY DESIGNING A GOOD CLEANING SYSTEM
- → GOVT. POLICIES RELATED TO NOC, NET METERING, DG SYNC AND ZERO EXPORT SOLUTIONS
- BEAUTIFUL ROOFTOP SOLUTIONS CAN ENHANCE
 AESTHETICS OF THE BUILDING





Solar energy is expensive & not economically viable





HOW YOU CAN HAVE SOLAR PLANT

- CAPEX
- LOAN

• RESCO/OPEX







Microsoft Excel o-Enabled Works



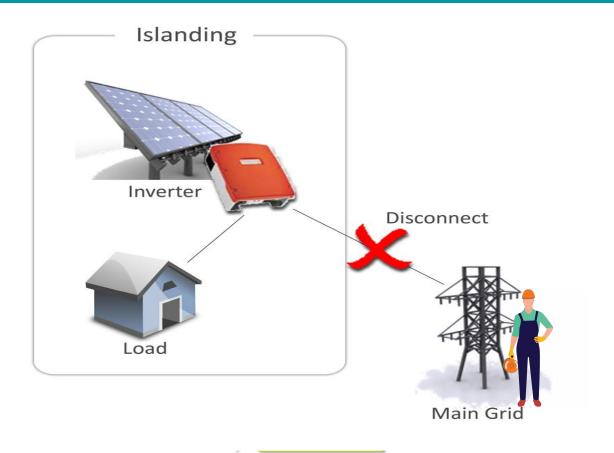


Solar energy can still power my house when the power goes out



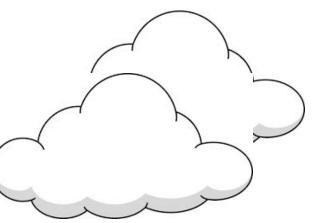


ISLANDING FOR SAFETY





Solar panels do not work in cold, snowy weather or when it is cloudy







Solar Power plant Installation is Complicated



MY WATERPROOFING





SPOILING MY WATERPROOFING





PUNCTURING MY ROOF







BALLAST STRUCTURE



BALLAST STRUCTURE





BALLAST STRUCTURE





PARAPET WALL STRUCTURE





WITH USING STEEL BARS OR EXISTING PILLARS





WITH USING STEEL BARS OR EXISTING PILLARS







Solar Power plant spoils beauty of my house





SOLAR LANDSCAPE VIEW





SOLAR WITH BALLAST STRUCTURE VIEW





SUPER STRUCTURE VIEW







How to design the most efficient solar system for your client



KEY POINTS

- 100 square feet area for 1kw
- Shadow free area required
- Solar panel should face south for northern hemisphere
- 1kw plant generate 4 units a day
- Tilt angle is usually Latitude of the place
- Life of solar power plant up to 20+ years



DESIGNING SOFTWARES



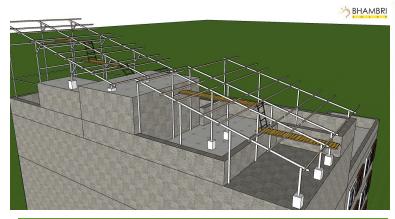


3D DESIGN SIMULATION





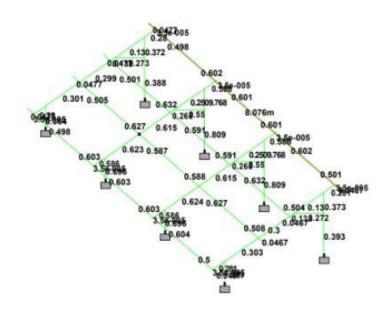
3D DESIGN STRUCTURAL

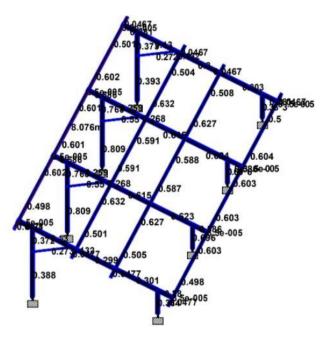




	0 <u>7</u>	30 KW	STRUCTU	RE			ç	
Particulars	Parts	Section (mm)	Length (mm)	QTY/TAB	Total length for table	Table Qty.	Total length(mm)	Total Weigh (Kg)
	LEG 1		1570	4	6280			19/
	LEG 2		2200	4	8800			
	LEG 3	60X40x2 MM BOX PIPE	2780	4	11120	1	65,280	196
20 + 12 Panels TABLE	LEG 4		3380	4	13520		00,200	
	RAFTER 1		8520	3	25560			
			20000					2,880 175
	PURLIN 1	40X40x2 MM BOX PIPE	5,670	8	45360		72,880	
	PURLIN 2 LEG 5		3,440	8	27520			
			330	3	990			
	LEG 6 LEG 7		3980	2	7960			
	LEG 7	60X40x2 MM BOX PIPE	5440	3	14130	1	79,040	237
15+10 Panels TABLE	LEG 8			-				201
13+10 Panels TABLE	CROSS BRACING		1390	1 9	1390 6930	2001		
	RAFTER 2	-	10440	3	31320			
	RING BRACING	NUMPERADITIES STREET	15590	1	15590		1000000	65533
	PURLIN 3	40X40x2 MM BOX PIPE	6,100	10	61000		76,590	184
	LEG 10		390	2	780			
	LEG 11	60X40x2 MM BOX PIPE	1060	2	2120		10,580	32
4 Panels TABLE	RAFTER 3	- 3866.00 South Charles Colored III	3840	2	7680	1	10.000.000	
	PURLIN 4	40X40x2 MM BOX PIPE	2,320	2	4640		4,640	11
	WALKWAY SUPPORT		1,590	5	7950	1	7,950	19
	WALKWAY SUPPORT 2		4,770	3	14310	1	14,310	34
	WALKWAY PURLIN 1		3,660	2	7320	1	7,320	18
WALKWAY STRUCTURE	WALKWAY PURLIN 2	40X40x2 MM BOX PIPE	4,670	2	9340	1	9,340	22
	WALKWAY PURLIN 3		3,760	2	7520	1	7,520	18
	WALKWAY PURLIN 4		3,760	2	7520	1	7,520	18

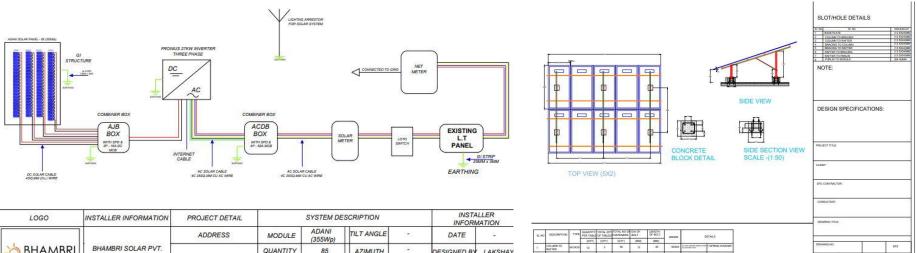
MODULE MOUNTING STRUCTURE ANALYSIS







SINGLE LINE DIAGRAM/ LAYOUTS



			12				INFORM	ATION
		ADDRESS	MODULE	ADANI (355Wp)	TILT ANGLE		DATE	2
BHAMBRI	BHAMBRI SOLAR PVT. LTD.		QUANTITY	85	AZIMUTH	(1)	DESIGNED BY	LAKSHAY
F & O C A X		PUSHPANJALI FARMS	SYSTEM (DC)	30Kw	INVERTER	FRONIUS	CHECK BY	
			SYSTEM (AC)	-	QUANTITY	1	SHEET SIZE	A4

52.NO	DESCRIPTION	TYPE	QUANTITY PER TABLE	OF TABLES	FASTENERS	DIA OF BOLT	OF BOLT	GRADE		CTAILS.	
				(070)	(077)	(QTV)	(MN)	(NB/)			
1	COLUMN TO RAFTER	M12X30	12	3	38	12	30	55304	private encoded to the courter of the state of the courter of the	SPRING WASHER	
	RAFTER TO PURLIN	M12K30	18	3	54	u	30	55304	Lifest sales search search (0) Se sheld fields	I SPRING WASHER	
	COLLINN TO BRACING	M12X30	25	3	75	12	30	05304	Sinces realists search the point of the second seco	I SPRING WASHER	
	PURLIN TO MODULE	MEC20	60	3	180		20	55304	process and state and state of the sector of	I SPRING WASHER	

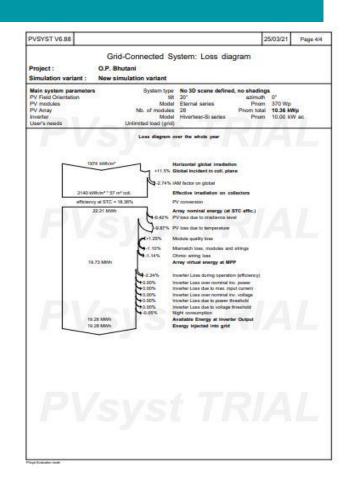
DRAMING TITLE			
DRAWING NO			NT
DRAWN	LAKSHAY MEHRA	SHEET NO.	
DRAWN CHECKED	LAKSHAY MDIRA	SHEET NO.	t A3
erentes s			- 202



GENERATION REPORT SIMULATION (PVSyst)

Grid-Conr	ected System	: Simulation paramet	ters
Project : O.P. Bhu	tani		
Geographical Site	Sainik farm	Cos	untry India
Situation Time defined as Meteo data:	Legal Time Albedo	Time zone UT+5.5 Attr	tude 77.22° E tude 238 m
	and the family	Meteoriorm 7.2 (1981-1990) - 8	synthetic
Simulation variant : New simu	lation variant	25/03/21 12:05	
- W	Simulation date	25/03/21 12/05	
Simulation parameters	System type	No 3D scene defined, no sha	dings
Collector Plane Orientation	Tát	20° Azin	nuth 0"
Models used	Transposition	Perez Dif	luse Perez, Meteonorm
Horizon	Free Harizon		
Near Shadings	No Shadings		
User's needs :	Unlimited load (grid)		
Custom parameters definition Number of PV modules Total number of PV modules Array global power Array operating characteristics (50°C) Total area Inverter Original PVsyst database	Manufacturer In series Nb. modules Nominal (STC) U mpp Module area Model Manufacturer Operating Voitage	14 modules in par 28 Unit Non. Pr 10.35 KWp Al operating of 504 V In 56.5 m ² Hivertwer-Si series Hisachi 100-000 V Unit Non. Pr 2 * MPPT 50 % Total Pr	allel 2 strings zwer 370 Wp ond. 9.53 WVp (50°C) mpp 19 A 10.00 WWac swer 10.0 kWac ratio 1.04
PV Array loss factors Thermal Loss factor	-		and a summer sure
Wring Ohmic Loss Module Quality Loss Module Mismatch Losses Strings Mismatch Loss	Global array res.	437 mOhm Loss Fra Loss Fra Loss Fra Loss Fra	wind) 0.0 Wim?K / mis ction 1.5 % at STC ction -1.3 % ction 1.0 % at MPP ction 0.10 % ram. 0.05

oject :	0.P. 1	Bhutani	inected :	System	: Main	results			
nulation variant	: New :	simulatio	n variant						
in system parame Field Orientation modules Array erter er's needs	aters		System typ 5 Mode 5. of module Mode ted load (grid	it 20" el Eternal s 28 el Hiverte	scene def I series rer-Si serie	Pnom	muth 0° Phom 370 Total 103	0 Wp 36 kWp 00 kW	
in simulation resu stam Production	415		uced Energ nce Rato Pi		MWh/year %	Specific	prod. 186	51 kWh/	kWp/yea
presidued productions (p	er installed KWy	s. Nominal p	isw 18.36 kMp			Performan	ce Halio PR		
				41 13 14					
Jan fini Man An	they are a	Ang Em	Ca Han Day		Jan Tan A	ir in Way		Eag 24	Sen 2m
ie fa la ie	i kaj ko i k	Ang Eng	New sime Balances a	a dation var nd main re		ir for the s		Eng 24	tin Ze
	GlobHor kWh(m1	beg top Diffior kWh/m*				EArray High	E_Grid HWh	Ray Do	tin De
ier feb tie en	kWh(m ¹ 118.2	kWh/m ¹ 35.4	Balances a T_Amb *C 13.91	GlobInc kWhjm ¹ 158.5	GlobEff Wh(m ¹ 154.3	HWh 1.495	MWh 1.463	0.89	1
February	kWh(m ¹ 118.2 137.1	kWh/m ¹ 35.4 36.3	Balances a *C 13.91 17.73	GlobInc kWhjm ¹ 158.5 171.6	GlobEff Wh(m ¹ 154.3 167.5	MWh 1.495 1.581	HWh 1.463 1.546	0.89	1
	kWh(m ¹ 118.2	kWh/m ¹ 35.4	Balances a T_Amb *C 13.91	GlobInc kWhjm ¹ 158.5	GlobEff Wh(m ¹ 154.3	HWh 1.495	MWh 1.463	0.89	1 0 4
February March	kWh(m ¹ 118.2 137.1 188.2 206.6 221.9	kWh/m ² 35.4 36.3 50.1 64.5 87.4	Balances a *C 13.91 17.73 21.72 29.61 33.18	GlobInc kWh/m ¹ 158.5 171.6 214.7 215.8 216.9	GlobEff Wh(m ¹ 154.3 167.5 209.4	MWh 1.495 1.581 1.920 1.884 1.878	MWh 1.463 1.546 1.877 1.839 1.833	0.59 0.57 0.54	1 0 4 3
February March April May June	kWh(m ¹) 118.2 137.1 188.2 206.5 221.9 196.4	kWh/m ¹ 35.4 36.3 50.1 64.5 87.4 100.7	Balances a *C 13.91 17.73 23.72 29.61 33.18 32.52	GiebInc kWhim ¹ 158.5 171.6 214.7 215.8 216.9 187.2	GlobElf Whim ¹ 154.3 167.5 209.4 210.3 210.7 181.3	MWh 1,495 1,581 1,920 1,884 1,878 1,645	MWh 1.463 1.546 1.677 1.639 1.633 1.607	0.59 0.57 0.54 0.52 0.51 0.52	1 0 4 3 6 8
February March April May Juna July	kWh(m ¹ 118.2 137.1 188.2 206.6 221.9 196.4 166.6	kWh/m ² 35.4 36.3 50.1 64.5 87.4 100.7 100.0	Balances a *C 13.91 17.73 23.61 33.18 32.52 31.54	GiebInc kWhim ¹ 158.5 171.6 214.7 215.8 216.9 187.2 160.1	GlobEff Wh(m ¹ 154.3 167.5 209.4 209.4 210.7 181.3 154.6	MMN 1,495 1,581 1,920 1,824 1,878 1,645 1,422	MWh 1.463 1.546 1.677 1.639 1.633 1.607 1.388	0.59 0.57 0.54 0.52 0.51 0.52 0.53	1 0 4 3 6 8 7
Pebruary March April May June July August	kWh(m ¹ 118.2 137.1 185.2 206.6 221.9 196.4 166.6 159.7	kWh(m ¹) 35.4 36.3 50.1 64.5 87.4 100.7 100.0 90.5	8alances a T_Amb *C 13.91 17.73 23.72 29.61 33.18 32.52 31.54 30.46	Globins killhim ¹ 158.5 171.6 214.7 215.8 216.9 187.2 160.1 159.8	GlobEff Wh(m ¹) 154.3 167.5 209.4 210.3 210.7 181.3 154.6 154.8	Mash 1.495 1.581 1.920 1.884 1.878 1.645 1.422 1.422	HWh 1.463 1.546 1.877 1.839 1.633 1.607 1.388 1.388	0.89 0.87 0.84 0.82 0.81 0.82 0.83 0.83	1 0 4 3 5 5 5 7 8
Pebruary March April May June July August September	kWh(m ¹ 118.2 137.1 188.2 206.5 221.9 196.4 106.5 139.7 170.7	kWh(m ²) 35.4 36.3 50.1 64.5 87.4 100.7 100.0 90.5 68.4	8alances a *C 13.91 17.73 23.72 29.61 33.18 32.52 31.54 30.46 23.96	d main re GlobInc k8h/m ¹ 158.5 171.6 214.7 215.8 216.9 187.2 160.1 159.8 185.3	GlobEff Wh(m ¹) 154.3 167.5 209.4 210.3 210.7 181.3 154.6 154.8 180.1	MMA 1.495 1.581 1.920 1.884 1.878 1.645 1.422 1.422 1.422 1.423	HWh 1.463 1.546 1.877 1.839 1.633 1.607 1.388 1.388 1.388 1.505	0.89 0.87 0.84 0.82 0.81 0.82 0.83 0.83 0.83 0.83	1 0 4 3 6 8 7 8 6
Pebruary March April May June July August	kWh(m ¹ 118.2 137.1 185.2 206.6 221.9 196.4 166.6 159.7	kWh(m ¹) 35.4 36.3 50.1 64.5 87.4 100.7 100.0 90.5	8alances a T_Amb *C 13.91 17.73 23.72 29.61 33.18 32.52 31.54 30.46	d main re GlobInc k88h/m ¹ 158.5 171.6 214.7 215.8 216.9 187.2 160.1 159.8 185.3 198.2	GlobEff Wh(m ¹ 154.3 167.5 209.4 210.3 210.7 181.3 154.6 154.6 180.1 193.5	MMA 1.465 1.581 1.920 1.884 1.675 1.422 1.445 1.422 1.422 1.443 1.766	HWh 1.463 1.546 1.677 1.639 1.633 1.607 1.388 1.388 1.505 1.725	0.89 0.87 0.84 0.82 0.81 0.82 0.83 0.83	1 0 4 3 6 8 7 8 6 6 0
Pebruary March April May Juna July August September October	kWh(m ¹ 118.2 137.1 188.2 206.5 221.9 196.4 106.5 139.7 170.7 164.5	kWh/m ² 25.4 36.3 50.1 64.5 87.4 100.7 100.0 90.6 68.4 47.8	Balances a T_Amb *C 13.91 17.73 23.72 29.61 33.18 32.52 31.54 30.46 28.96 28.18	d main re GlobInc k8h/m ¹ 158.5 171.6 214.7 215.8 216.9 187.2 160.1 159.8 185.3	GlobEff Wh(m ¹) 154.3 167.5 209.4 210.3 210.7 181.3 154.6 154.8 180.1	MMA 1.465 1.581 1.920 1.884 1.675 1.445 1.445 1.422 1.422 1.422 1.443	HWh 1.463 1.546 1.877 1.839 1.633 1.607 1.388 1.388 1.388 1.505	0.89 0.87 0.84 0.82 0.81 0.82 0.83 0.83 0.83 0.83 0.83	1 0 4 3 6 8 8 7 7 8 6 0 5
Pebruary March April May June July August September October November	kWh(m ¹ 118.2 137.1 188.2 206.5 221.9 196.4 196.6 199.7 170.7 184.8 128.9	kWh/m ² 25.4 36.3 50.1 64.5 87.4 100.7 100.0 90.6 68.4 47.8 32.9	Balances a T_Amb *C 13.91 17.73 21.72 29.61 31.16 32.52 31.54 30.46 28.98 26.18 20.22	d main re GlobInc k8h/m ¹ 158.5 171.6 214.7 215.8 216.9 167.2 160.1 159.8 185.3 198.2 171.7	GlobEff Wh(m) 154.3 167.5 209.4 210.3 210.7 181.3 154.6 154.8 190.1 193.5 167.2	HMM 1.495 1.581 1.920 1.884 1.675 1.645 1.422 1.442 1.442 1.643 1.766 1.572	HWh 1.463 1.546 1.677 1.639 1.633 1.607 1.388 1.605 1.725 1.538	0.89 0.87 0.84 0.82 0.81 0.82 0.83 0.83 0.83 0.83 0.84 0.86	1 0 4 3 6 6 8 8 7 7 8 8 6 0 5 5 3



e Trabater and

GENERATION REPORT WITH DESIGN (SOLAR LAB)

Mr. Nipun Sultanpur farm 30.26 kWp (28.48749, 77.15874)

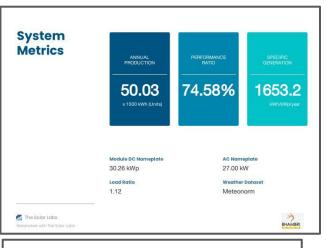
Mr. Nipun

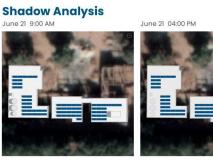
nagery C2021 CNES / Airbus, Maxar Technologie:

Click to View 3D Model

info@bhambrienterprises.com 9711918862 BHAMBRI www.kingsunsolarproducts.com







BHAMBRI

📶 The Solar Labs

The Solar Labs



DIFFERENT & LATEST SOLAR TECHNOLOGIES WITH LATEST BRANDS

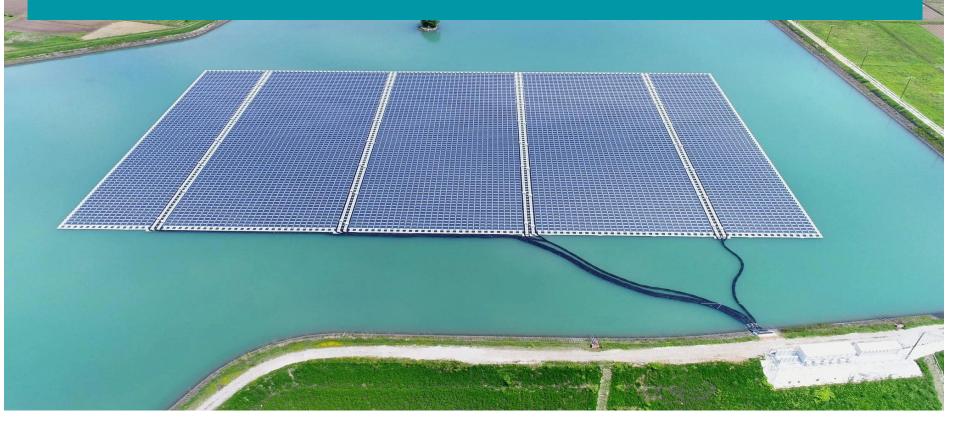


#1 FLOATING SOLAR FARMS





SOLAR FARM FLOATING

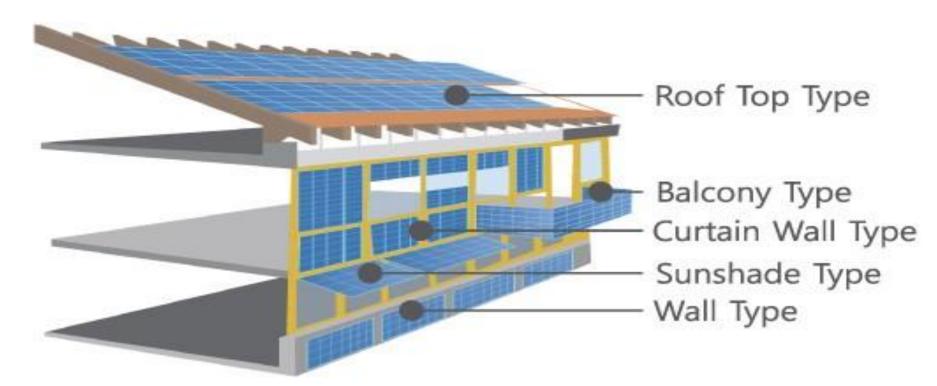




SOLAR FARM AERIAL VIEW



#2 BIPV - BUILDING INTEGRATED PV



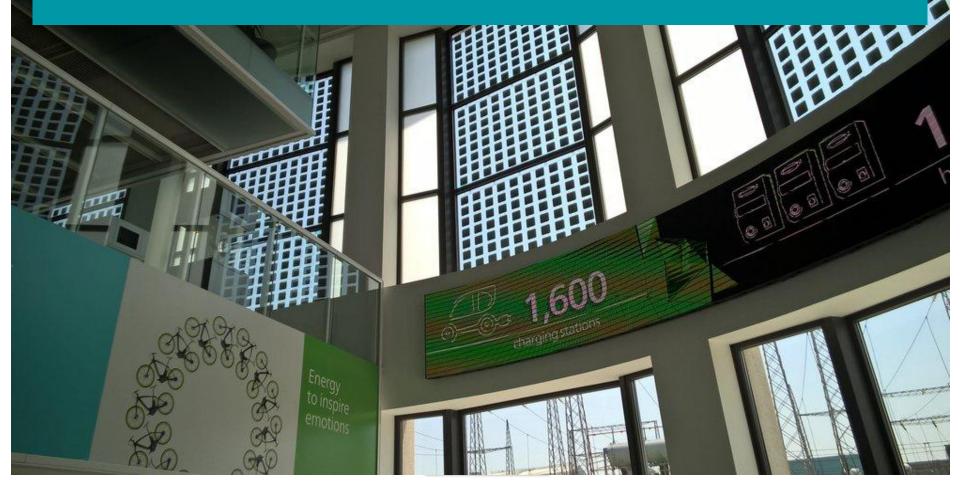


BIPV - BUILDING INTEGRATED PV





BIPV - BUILDING INTEGRATED PV



#3 SOLAR SKINS



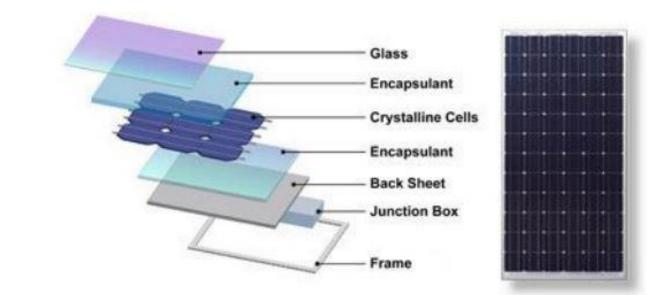


LATEST SOLAR PV CELL TECHNOLOGY

- **PERC -** Passivated Emitter Rear Cell
- **Bifacial** Dual sided panels and cells
- Multi Busbar Multi ribbon and wire busbars
- Split cells half-cut and 1/3 cut cells
- Shingled Cells Overlapping cells
- High-density Cells Removing inter-cell gaps
- **IBC** Interdigitated Back Contact cells
- **HJT** Heterojunction cells

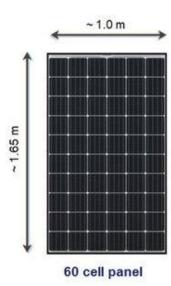


INTERNAL STRUCTURE OF MODULE





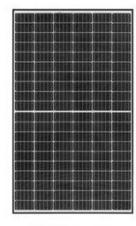
Solar Panel Evolution



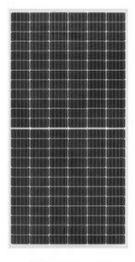


72 cell panel

96 cell panel

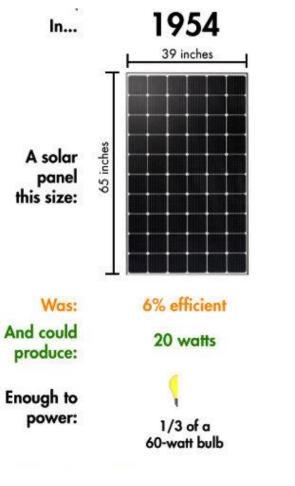


120 half-cut cells



144 half-cut cells







15% efficient

200 watts

3 and 1/3

60-watt bulbs



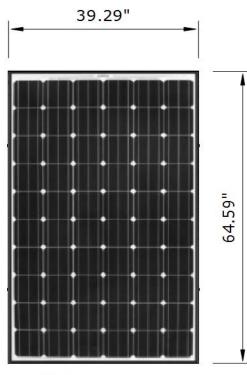


20% efficient 265 watts



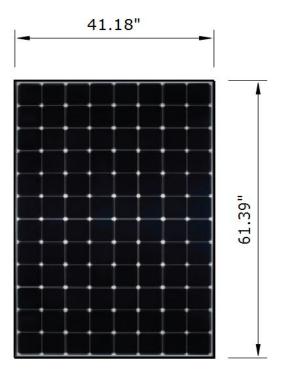
4 and 2/5 60-watt bulbs





280W Rating 17.62 square feet 15.89 W/sf

17.1% cell efficiency



345W Rating 17.55 square feet 19.65 W/sf

21.5% cell efficiency



2021

Solar Panel Datasheet

ELECTRICAL DATA (CTC)



TRINA SOLAR PANEL

	ELECTRICAL DATA (STC)									
	Peak Power Watts-PMAX (Wp)*	480	48	35	490	495	500	505		
	Power Tolerance-PMAX (W)				0~	+5				
	Maximum Power Voltage-V _{MPP} (V)		42	.2	42.4	42.6	42.8	43.0		
	Maximum Power Current-IMPP (A)	11.42	2 11.4	49	11.56	11.63	11.69	11.75		
	Open Circuit Voltage-Voc (V)	50.8	51.	.1	51.3	51.5	51.7	51.9		
	Short Circuit Current-Isc (A)	11.9	9 12.	.07	12.14	12.21	12.28	12.35		
	Module Efficiency n m (%)	20.1	. 20).3	20.5	20.7	20.9	21.1		
EMPER	ATURE RATINGS			M	AXIMUMR/	ATINGS				
NMOT (N	ominal Module Operating Temperature)	41 C (±	3°C)	C	perational	Temperat	ure	-40~+85°C		
Temperature Coefficient of PMAX		- 0.36%/ C		۲	1aximum S	ystem Volt	tage	1500V DC (IEC		
Temperature Coefficient of Voc		-0.26%/C		٢	1ax Series I	Fuse Ratin	g	20A		
Temper	ature Coefficient of Isc	0.04%/	C							
			Solar Cells			Monocrys	talline			
			Cell Orienta	ation		150 cells				
			Module Din	nension	IS	2176 ×10	98×35 mm	(85.67 × 43.23 × 1.3		

Weight

L A

0

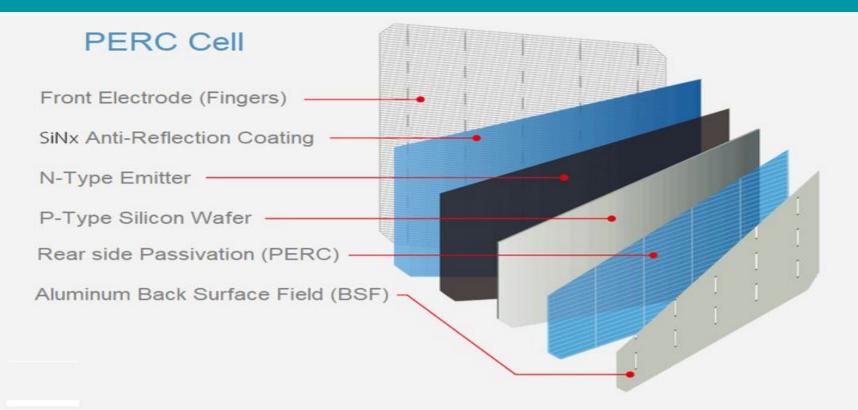
26.3 kg (58.0 lb)

EFFICIENCY OF DIFFERENT SOLAR PV CELLS

Polycrystalline - 15 to 18% Monocrystalline - 16.5 to 19% **Polycrystalline PERC - 17 to 19.5% Monocrystalline PERC - 17.5 to 20% Monocrystalline N-type - 19 to 20.5%** Monocrystalline N-type HJT - 19 to 21.7% Monocrystalline N-type IBC - 20 to 22.6%

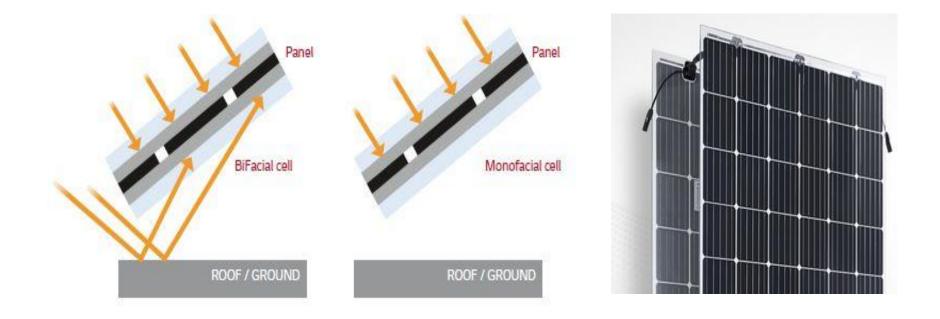


PERC - PASSIVATED CELLS





BIFACIAL SOLAR MODULES





How a Bifacial Solar Panel Works

Direct Sunlight on Front of Panel

Diffuse Sunlight on Back of Panel

Direct Sunlight Reflected off Ground to Back of Panel

Diffuse Sunlight Reflected off Ground to Back of Panel











MAKE YOUR OFFICE/HOME MORE BEAUTIFUL

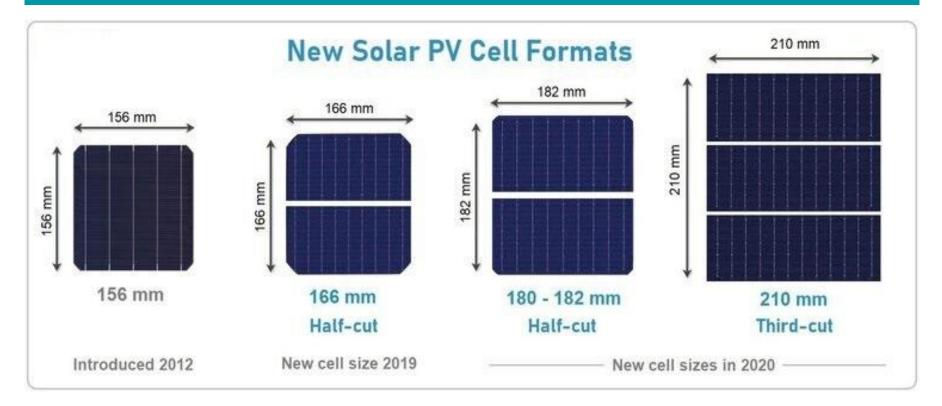




MULTIPLE WIRE/BUS BARS



SPLIT MODULE WITH HALF CUT CELLS





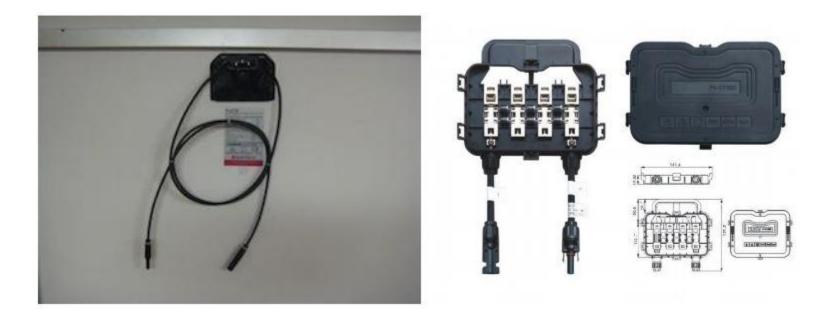
LATEST BRANDS AVAILABLE IN MARKET

•ADANI •VIKRAM •WAAREE PANASONIC CANADIAN SOLAR •TRINA •RENEWSYS •RENESOLA •JA SOLAR ... Etc





JUNCTION BOX



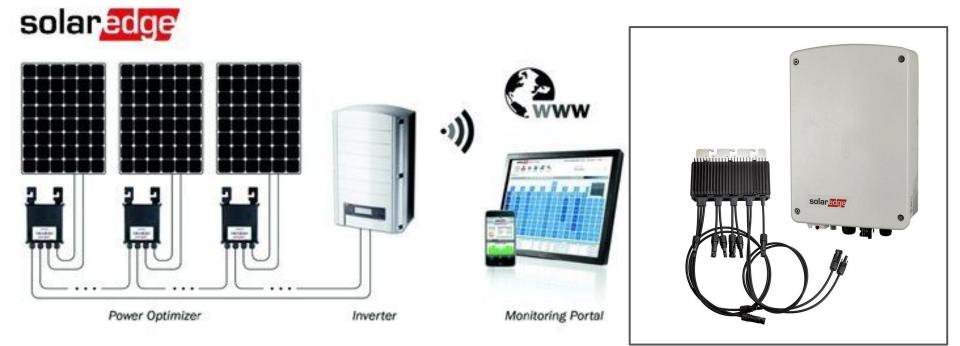


DIFFERENT BRANDS OF SOLAR INVERTER



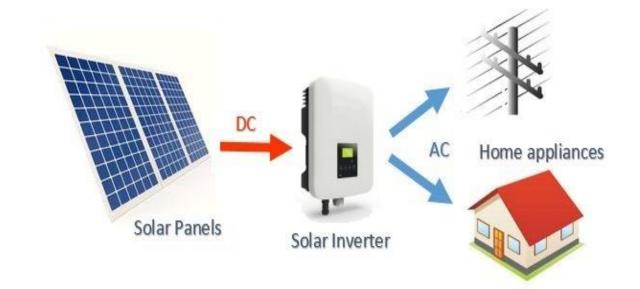


SOLAR EDGE INVERTER





GRID TIED SOLAR POWER INVERTER





HYBRID INVERTER TECHNOLOGY



Hybrid solar systems

Generate power in the same way as a common grid-tie solar system but use special hybrid inverters and batteries to store energy for later use.

This ability to store energy enables most hybrid systems to also operate as a backup power supply during a blackout, similar to a UPS



BENEFITS TO HOTELS

Investing in renewable & Eco Friendly resources can help in improving your hotel's overall profit margin

Tourists prefer to to accommodate themselves at an environment friendly hotel room rather than a ordinary hotel room.

Rising electricity prices and increasing pressure to cut carbon emissions, saving energy is the no.1 on a hotelier's priority list

Operational cost goes down



BENEFITS TO HOTELS

Enjoy 40% depreciation benefits

Low maintenance requirement

Guaranteed & Proven ROI

No more payment of heavy bills

Establish an environment friendly identity

Solar makes your roof cooler than normal conditions and Air conditioner consumption will be low.



How about promoting your hotels as Eco Freindly

CO₂

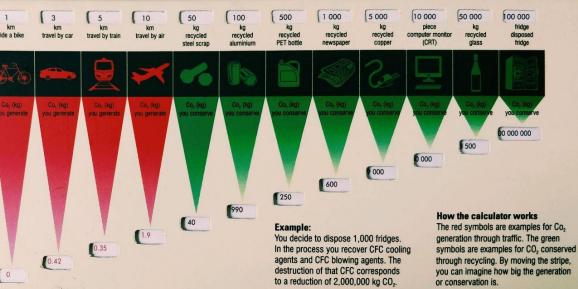
Carbon Footprint Calculator

We at ITC Hotels, annually off-set carbon emissions equivalent to the carbon footprint created by traveling across the globe almost 1,200 times!

FIRST ON EARTH ITC PRESENTS THE GREENEST LUXURY HOTEL CHAIN IN THE WORLD'

We've adopted contemporary green business practices that also harness the elements of nature, to provide the best in luxury with the lowest environmental footprint. A fine balance between the man-made and natural environment is what we call '**Responsible Luxury**'.

#Ten ITC Hotels are LEED* Platinum Certified by the US Green Building Council and Indian Green Building Council (LEED* - Leadership in Energy & Environmental Design)





ROI FOR 100 KW SAVINGS IN CO2



TESLA POWERWALL







BATTERY



Batteries are the most common power source for basic handheld devices to large scale industrial applications.

A battery can be defined as; it is a combination of one or more electrochemical cells that are capable of converting stored chemical energy into electrical energy.



Wh/Kg COMPARISON



Lead acid battery Nickel metal hydride battery Lithium-ion battery



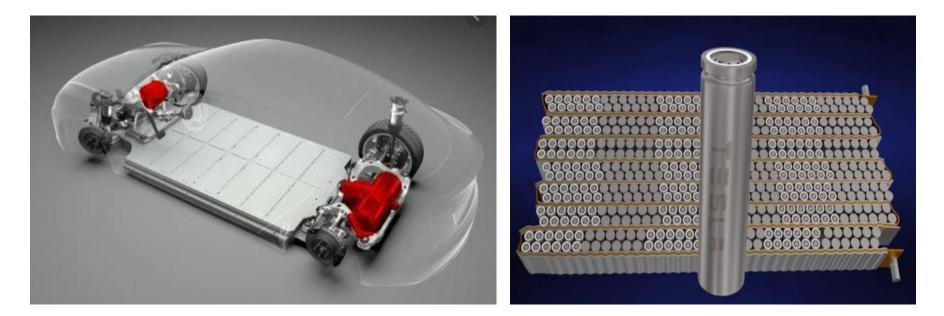
LITHIUM -ION BATTERY

- High energy density
- Low self discharge
- Low maintenance
- Higher cell voltage





LI-ION EXAMPLE



Tesla Battery Pack

ONLINE MONITORING

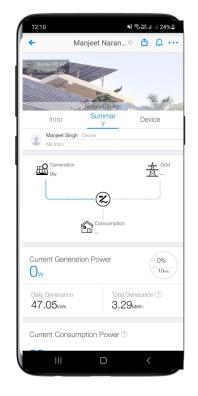




ONLINE MONITORING

12:13		≹ Ŝ+₩8.al al 24%≜
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manjeet_70	@hotmail.co	
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Login ID Page



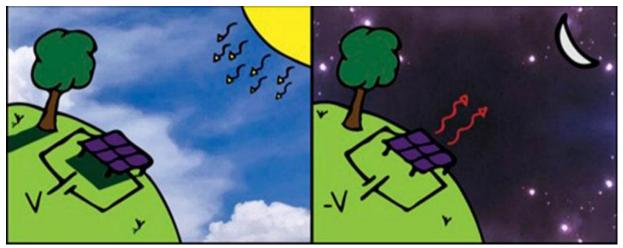




Monthly Generation

UPCOMING TECHNOLOGY

Scientists have developed a new prototype of night time solar cells that can produce electricity at night through a radiative cooling mechanism.



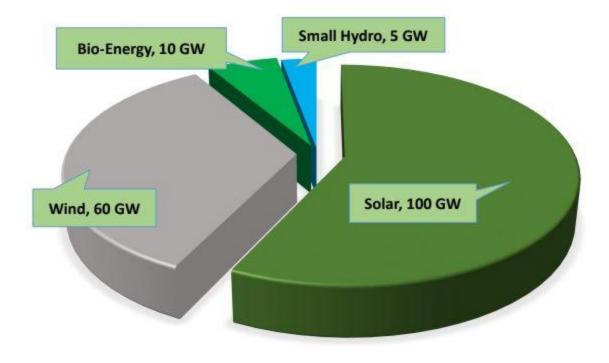




GOVT. POLICIES RELATED TO NOC, NET METERING, DG SYNC AND ZERO EXPORT SOLUTIONS

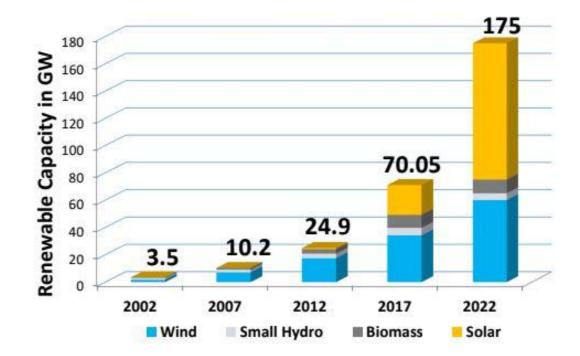


GOVT. TARGET BY 2022 : (175 GW)



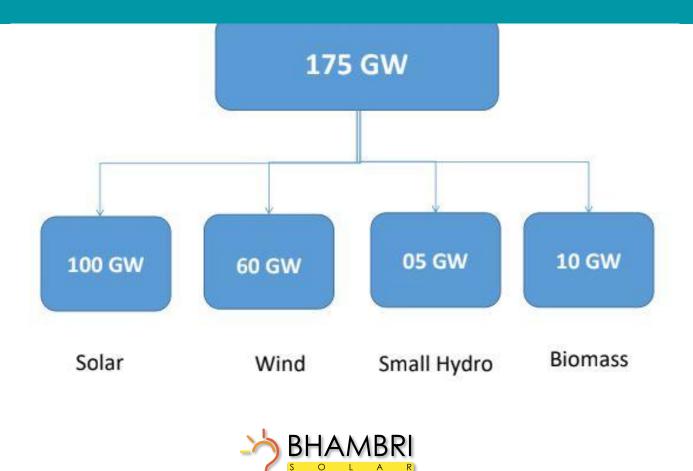


EXPONENTIAL GROWTH

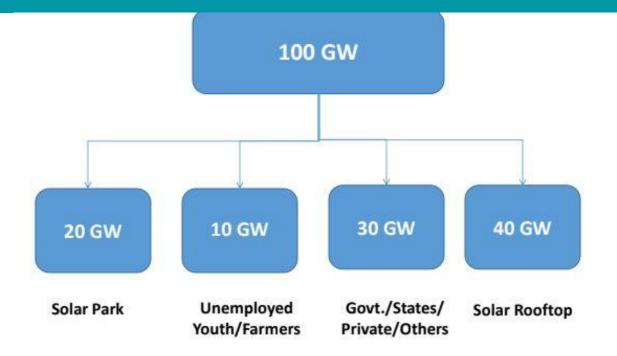




ROAD MAP 2022



ROAD MAP FOR SOLAR 2022





SOLAR POLICIES HARYANA

- Mandatory installation of Solar power plants The State Govt. has mandated installation of solar power plant of **3% to 5% of connected load** for categories of all residential buildings built on a plot size of **500 Square Yards and above.**
- All government and private Educational Institutes, Schools, Colleges, Hostels, Technical/Vocational Education Institutes, Universities, Offices having connected load of 30 Kilo Watt (KW) and
- Above all private Hospitals and Nursing Homes, Industrial Establishments, Commercial Establishments, Malls, Hotels, Motels, Banquet Halls and Tourism Complexes, having connected load of 50 Kilo Watt (KW) and above, all new Housing Complexes, developed by Group Housing Societies, Builders, Housing Boards, on a plot size of 0.5 Acre and above and all water lifting stations of Irrigation Department.



REGULATIONS FOR RESIDENTIAL

- In the residential sector, its mandatory enforcement shall be for the new residential buildings only whereas the installation of the rooftop solar power plants in the existing residential buildings shall be promoted by providing financial incentives.
- For other sectors even the existing buildings will be covered. If the user covered under the mandatory provision is not installing the rooftop solar power plant as per the notification, then penalty shall be imposed as per government rules and regulations.

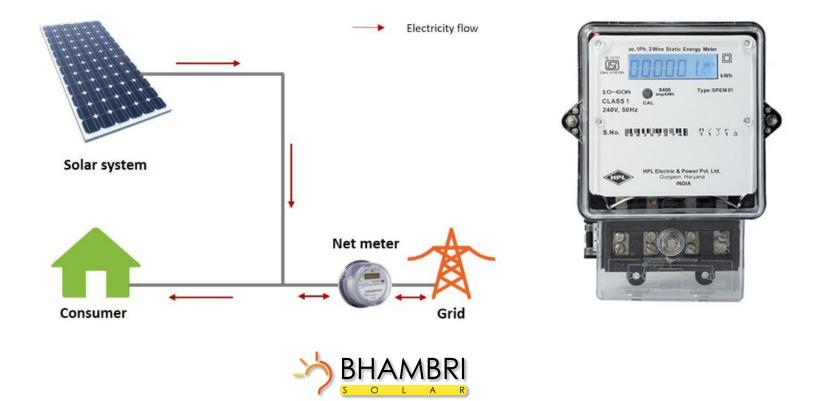


REGULATIONS FOR OTHER ESTABLISHMENT

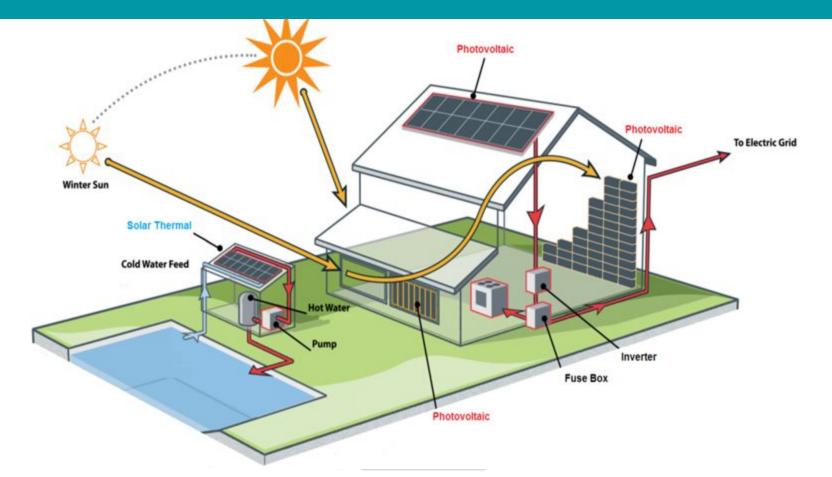
- There is a great potential to generate solar power through installation of rooftop solar power plants in the State. Accordingly the installation of 1kWp to 1 MWp.
- Grid connected & up to 50 kWp Solar roof-top Power Plants on the rooftops of Industries, Public and Private Institutes, Schools, Colleges, Commercial & Social Institutions/Establishments, Charitable Trust Bhawans, Hospitals and Residential Buildings etc. shall be promoted for their captive use/net meter as per the State Govt. Regulation.
- For installation of rooftop solar power plants the State Government shall provide capital /generation subsidy/ incentives.
- Currently upto 30% Subsidy available for residential rooftop in few states.



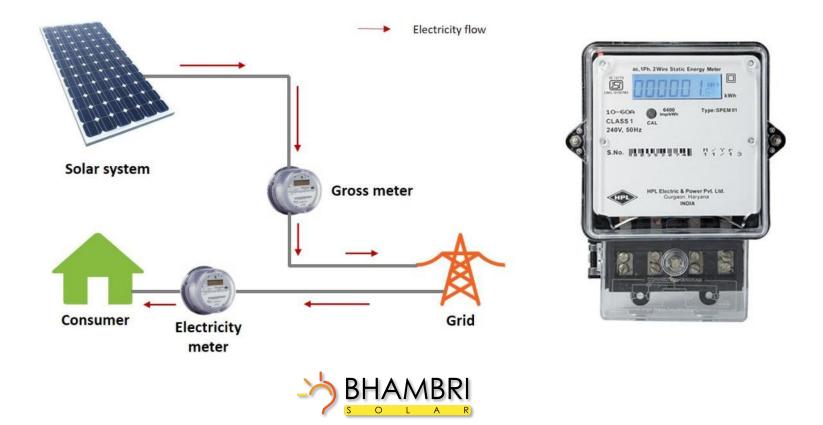
NET METER



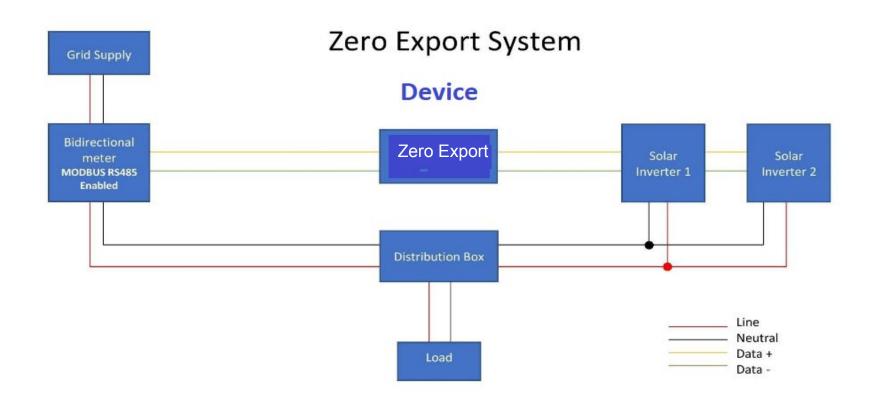
HOW SOLAR WORKS AT YOUR HOME



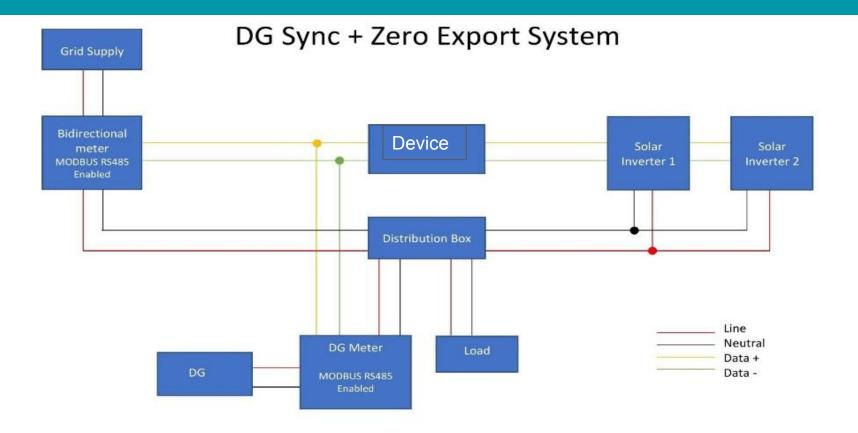
GROSS METER



ZERO EXPORT SYSTEM FOR SOLAR



DG SYNC AND ZERO EXPORT FOR SOLAR



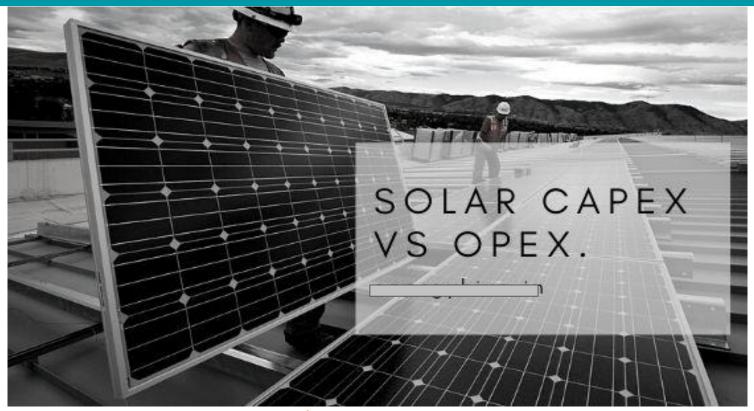
ZERO EXPORT & DG SYNC SYSTEM

- 1. Ethernet Switch
- 2. IONEST.X / IONEST.D/IONEST.XD
- 3. SMPS/UPS
- 4. Circuit Breaker/MCB
- 5. Terminals for mounting com cable
- 6. Terminals for mounting power cable
- 7. HMI Panel- Optional
- 8. MFM Panel -Optional*
- 9. Sensors & Transducers Optional*
- 10. Enclosure-IP55/66/67*
- 11. Enclosure- Sheet Steel/ Polycarbonate*



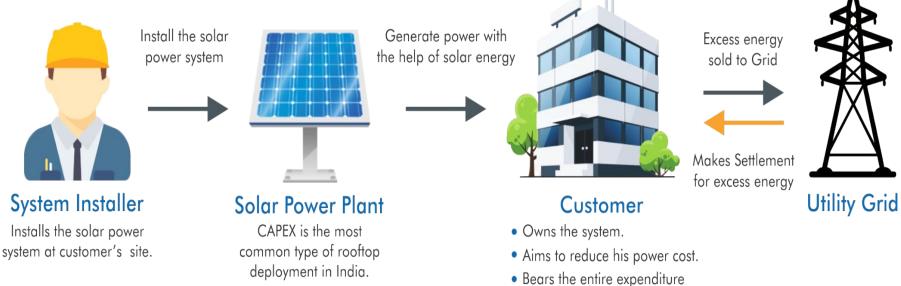


SOLAR CAPEX vs OPEX (RESCO)



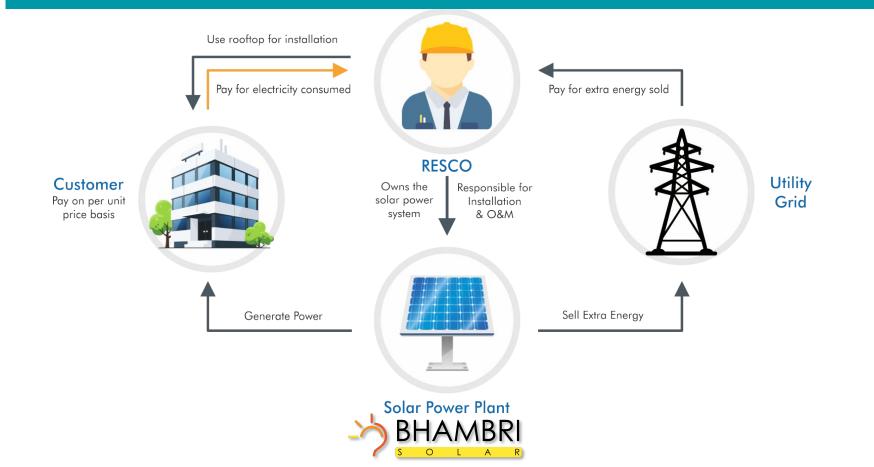


CAPEX



from installation to O&M.

OPEX/RESCO



OPEX

CAPEX

OPEX	CAPEX
Customer does not have to finance the plant. Business owner signs a Power Purchase Agreement.	100% investment borne by the customer
The O&M of the plant is also taken care of by the solution provider	Customer pays separately for O&M to manage equipment and downtime losses
Levelized cost of solar is above INR 5/unit	Levelized cost of solar is below INR 5/unit
Customer only pays tariff for the consumption of energy generated and enjoys savings on monthly energy bills from day 1	Customer enjoys cheap electricity and overall savings after cost of installation is recovered. Payback period is around 4 to 5 years
Solution provider bears all the performance and maintenance risk and is incentivized to maximize generation because revenues are linked entirely to generation	Customer bears all maintenance and performance risks
No Tax benefits for customer	Customer can claim tax benefit through accelerated depreciation

CAPEX & OPEX COMPARISON



Microsoft Excel o-Enabled Works

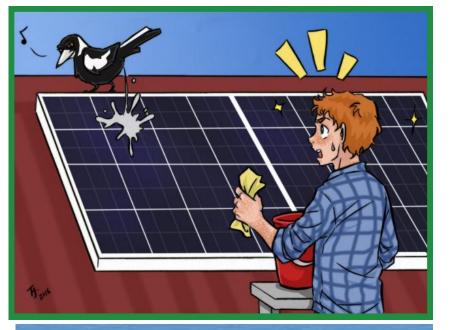




WAYS TO INCREASE EFFICIENCY BY DESIGNING A GOOD CLEANING SYSTEM



UNDERESTIMATE PART OF SOLAR POWER PLANT



Birds residual over Solar Modules



Dust and Pollution over Solar Module



WHEN SYSTEM REQUIRES CLEANING



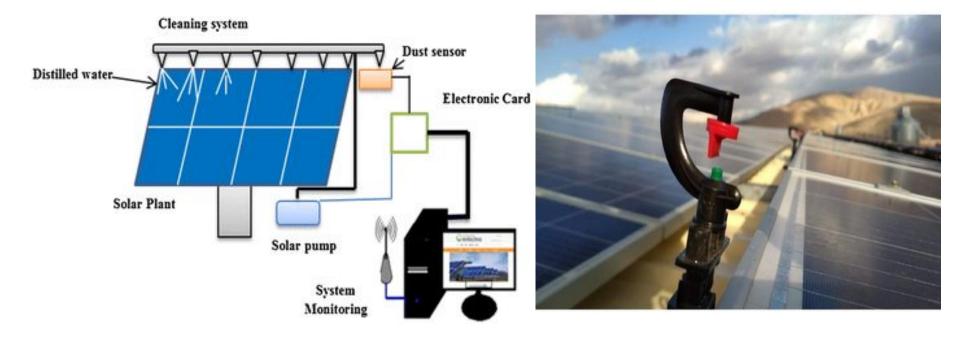


MANUAL CLEANING





AUTOMATIC CLEANING





SPRINKLERS WATER CLEANING







DUST SENSOR





Dust Sensor provides the information for solar energy plant management systems so that you can decide exactly when and where to clean. When? - you can set alarms in your system software to indicate when a certain soiling ratio has been reached and cleaning is needed. Where? - thanks to the cost-effective price, you can install a network of Dust sensor unit to monitor the variation in soiling over across the plant



ROBOTIC CLEANING



System was designed for cleaning the surface of the PV panels automatically to maximize the output of energy composed of a cleaning head and a drive system.

The cleaning head has two cylindrical brushes traveling upward and downward along the panel surface edges by a pair of motorized trolleys to generate a clean PV panel



NANO COATING



- Increase efficiency
- Reduce water usage
- Reduce time

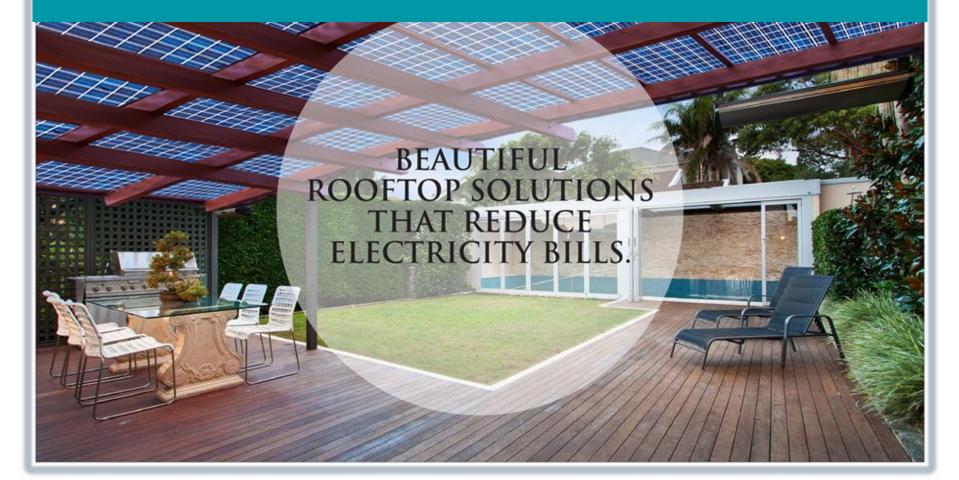




BEAUTIFUL ROOFTOP SOLUTIONS CAN ENHANCE AESTHETICS OF THE BUILDING



BEAUTIFUL SOLUTIONS TO CLIENTS



SOLAR WITH PERGOLA





SOLAR WITH PERGOLA





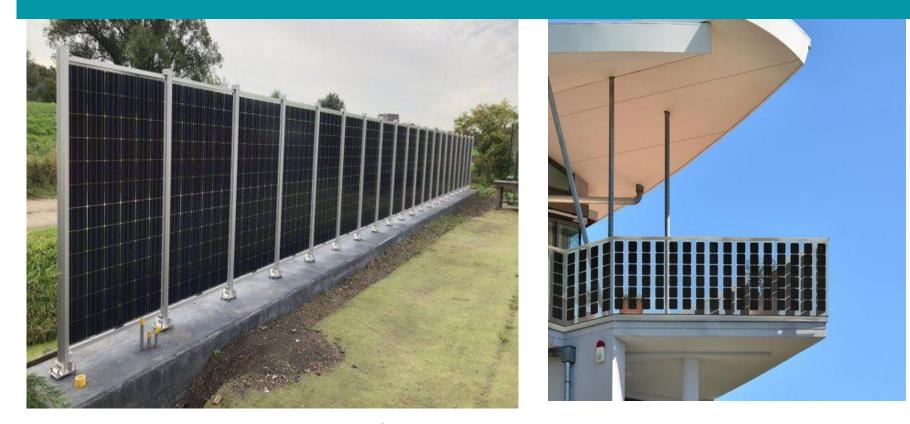
SOLAR AESTHETIC







SOLAR FENCING





SOLAR AESTHETIC FOR RESTAURANTS







SOLAR CAR PARKING







SOLAR FOR SWIMMING POOL





SOLAR FOR EV CHARGING







EV CHARGING STATION WITH SOLAR POWER PLANT





TESTIMONIAL

"I am extremely Happy with my system . My bill is zero . I have already recovered my investment . I did not want to have excess units to be given to grid , so I bought an E bike ,which I charge with my solar system , so now I am travelling free . Thank you Team Bhambri for a wonderful system."









Sanjeev Solanki

Nawada (6Kw)





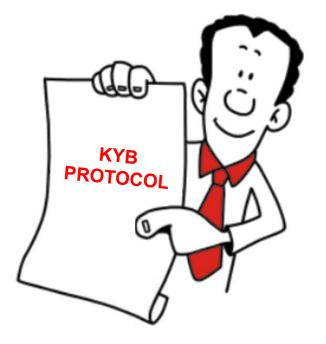
Know Your Bill Protocol (KYB)



KNOW YOUR BILL (KYB)

Key Aspects of High Electricity Bill

- Maximum Demand (MDI)
- Power Factor (PF)





ELECTRICITY UNIT

Electrical Energy = input power (Kw) x Time (Hr)

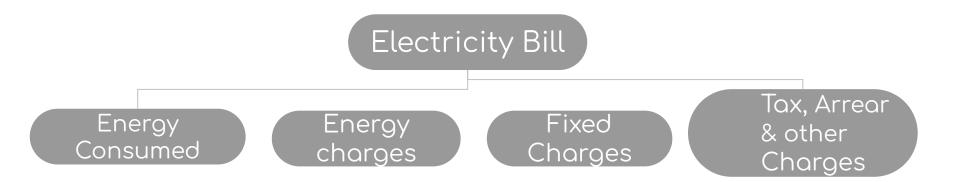
Standard unit of electrical energy is KWH

Amount of power consumed in one hour is known as unit

1 Unit = 1 KWH



ELECTRICITY BILL ANALYSIS



Energy Consumed = Present Reading (kwh) - Past Reading (Kwh)

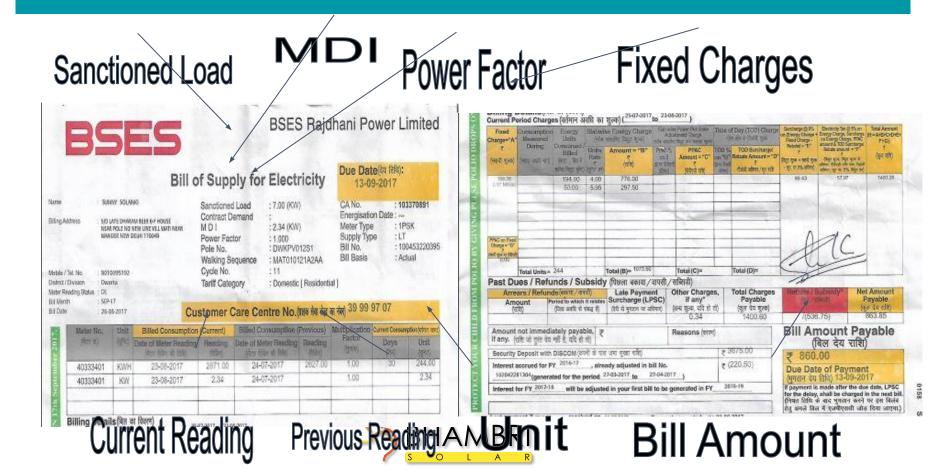
Fixed Charges = connected Load (Kw) X Load Fixed Charges



ELECTRICITY UNIT SLAB

S. No.	CATEGORY	FIXED CHARGES		EM	IERGY CHARG	ies		
1	DOMESTIC	ic						
1.1	INDIVIDUAL CONNECTIONS		0-200	201-400	401-800	801-1200	>1200	
1.1	INDIVIDUAL CONNECTIO	////	Units	Units	Units	Units	Units	
Α	Upto 2 kW	20 Rs./kW/month						
в	> 2kW and \leq 5 kW	50 Rs./kW/month	3.00 4.50 6.50 7.00 ath Rs./kWh Rs./kWh Rs./kWh Rs./kWh Rs./kWh ath 4.50 Rs./kWh Rs./kWh Rs./kWh Rs./kWh Rs./kWh ath 4.50 Rs./kWh Solution Rs./kWh Rs./kWh Rs./kWh ath 6.00 Rs./kVAh Solution Rs./kWh Rs./kWh Rs./kWh	1007000		7.00 Rs./kWh	8.00 Rs./kWh	
с	> 5kW and \leq 15 kW	100 Rs./kW/month						
D	>15kW and \leq 25 kW	200 Rs./kW/month						
Е	> 25kW	250 Rs./kW/month						
1.2	Single Point Delivery Supply for GHS	150 Rs./kW/month		а <u></u> а	4.50 Rs./kWh	i		
2	NON-DOMESTIC	8						
2.1	Upto 3kVA	250 Rs./kVA/month	6.00 Rs./kVAh					
2.2	Above 3kVA	250 Rs./kVA/month	8.50 Rs./kVAh					
3	INDUSTRIAL	250 Rs./kVA/month	7.75 Rs./kVAh					
4	AGRICULTURE	125 Rs./kW/month	1.50 Rs./kWh					
5	MUSHROOM CULTIVATION	200 Rs./kW/month		3	6.50 Rs./kWh	1		
6	PUBLIC UTILITIES	250 Rs./kVA/month	6.25 Rs./kVAh					
7	DELHI INTERNATIONAL AIRPORT LTD. (DIAL)	250 Rs./kVA/month			7.75 Rs./kVAł			
8	ADVERTISEMENT & HOARDINGS	250 Rs./kVA/month			8.50 Rs./kVAł	'n		
9	TEMPORARY SUPPLY							

ELECTRICITY BILL READING



MAXIMUM DEMAND INDICATOR

- This is the maximum power value, usually the average of 15 minutes, reached during the billing period.
- Once the value is higher than the Sanctioned load/contracted power, the customer will pay a penalty on the electricity bill.



SANCTIONED LOAD AND MDI

Bill of Supply for Electricity

KH.NO.1507 . 1074 Sanctioned Load : 45.00 (kVA) Contract Demand : M D I : 60.00 (kVA) Power Factor : 0.991 Pole No. : SKTPE522S1 Meter Reading Status : DL Cycle No. : 0E





Approved Load - 100KW

Extra Load - 50KW

Total Load - 150KW



BILL CALCULATION

Total bill= Total unit charges + fixed charges Fixed Charge up to Approved Load For 100kw Fixed charges= 250*100 = Rs 25,000 Fixed Charge more than Approved load For 150kw Fixed charges= 250*100 = Rs 25,000 Penalty = Excess load x fixed charge x 30% Penalty = 50 x 250 x 30% = Rs 16,250 Fixed charge = 25,000 + 16,250Total Fixed charge = Rs 41,250



THINGS TO DO WHEN MDI IS EXCEEDING

- You do profiling ,watch when does the load goes beyond sanctioned load
- If it goes too high for continuous number of days then you need to get the load enhanced
- If it is too less than the sanctioned load(below 80%) then you should get the sanctioned load reduced.
- If the increase is just 10-15% then you can set up an auto cut off of non essential load the moment it exceeds Sanctioned Load



TESTIMONIAL



Thank you Ruchi.

It was a real eye opener. We were totally unaware that we are draining atleast 20,000 per month, despite considering ourselves very progressive.

You are really doing appreciable work

More powers to you

Mr. Amit (Director) Agromech pvt. ltd.



POWER FACTOR





EXAMPLE



POWER FACTOR CALCULATION

Power factor (PF) is the ratio of true power, measured in kilowatts (kW), to apparent power, measured in kilovolt amperes (kVA). Apparent power, also known as demand, is the measure of the amount of power used to run machinery and equipment during a certain period. It is found by multiplying (kVA = V x A). The result is expressed as kVA units.

Power Factor = $\frac{True \ Power \ in \ Kw}{Apparent \ Power \ in \ Kva}$



HAPPY CUSTOMER







BEFORE POWER FACTOR

Meter Reading and Other Details						
Description	New	Old	Units			
Reading Date	01/01/2019	01/12/2018				
Reading KWH	388581.0000	382569.0000	6012			
Reading KVAH	420171.0000	413175.0000	6996			
MDI Reading	19.220					
General Hours	309009.00	303946.00	5063.00			
0530-0800 Hrs	28676.00	28184.00	492.00			
1730-1800 Hrs	9570.00	9408.00	162.00			
1800-1830 Hrs	10301.00	10137.00	164.00			
1830-1900 Hrs	10496.00	10326.00	170.00			
1900-2100 Hrs	34950.00	34305.00	645.00			
2100-2200 Hrs	17169.00	16869.00	300.00			
TOD 8	0.000	0.000	0.000			

 $\mathbf{PF} = \frac{True \ Power \ in \ Kw}{Apparent \ Power \ in \ Kva}$

$$\mathsf{PF} = \frac{6012 \ Kwh}{6996 \ Kvah} = \frac{0.85}{0.85}$$



AFTER POWER FACTOR

Description	New	Old	Units
Reading Date	01/05/2019	01/04/2019	102.5
Reading KWH	411671.0000	404232.0000	7439
Reading KVAH	446216.0000	438775.0000	7441
MDI Reading	18.670		
General Hours	328054.00	322562.00	5492.00
0530-0800 Hrs	30910.00	30295.00	615.00
1730-1800 Hrs	10115.00	9958.00	157.00
1800-1830 Hrs	10839.00	10681.00	158.00
1830-1900 Hrs	11019.00	10874.00	145.00
1900-2100 Hrs	36997.00	36440.00	557.00
2100-2200 Hrs	18282.00	17965.00	317.00
TOD 8	0.000	0.000	0.000





TESTIMONIAL

"Ruchi visited our convent & school, she saw all our bills. She explained what was best for minimizing the bill at each place & helped us to get the govt subsidies. Ruchi is very friendly and professional. The solar system installed by Bhambri solar has exceeded our expectations and we are very happy with her and her team."





TESTIMONIAL

"Hum dil khol kr AC chalate hai din raat aur bill humara zero aa raha hai. Thank you Ruchi"



Gurpreet Khurana (Director of Le Vastram)



ZERO BILL



Mobile / Tel. No.

Walking Sequence Bill Month Bill Date

Email ID District / Division

BSES Rajdhani Power Ltd. Date of Print Out: 17.07.2020 **Bill of Supply for Electricity**

GSTIN: 07AAGCS3187H2Z3 Name : NARINDER PAL SINGH KHURANA & GURPREET SINGH KHURANA Billing Address : S/O GURBACHAN SINGH & S/O Sanctioned Load :5:00 (kW) NARINDER PAL PLOT NO- M-116 S/F BLOCK-M VIKAS Contract Demand PURINEW DELHI 110018 MDI :4.74 (kW)

	Power Factor	: .997	Bill
	Pole No.	:VKPPJ314S1	Bill
	Meter Reading St	atus :DL	0.1
:9810693931	Cycle No.	:0N	Str
10 and			W3
: Vikas Pari : VKP010158Q0BS	Tariff Category	:Domestic [Resider	fial]
:JUL-20			_
:15-07-2020		Customer Care	Cent

Customer Care Centre No.	30000787	

CA No. Energisation Date : 20.07.2019

Meter Type

Supply Type

Ball No.

Bill Basis

O.D. No.

CCTV Tagged :No

Street Light Tagged : No

WI-FI Tagged :No

Due Date:

3PSK

:Actual

100036154405

:R/20/10189206225

:LT

-

Meter Details in Annexure

Billing Detai		lab-wise En	crgy Chie	rges	1000	Slib-W	ise FPA/PPA	T	OD	Sechia 8%	Elec.tricity	Total Amo
A)	Cons. Meased During	Billed Un	ts Unit Rate	Amera	nt(B)	PPAC%	Amount(C)	TOD% on B	Surg/Relst Amount (D)	an (E ^d A+B+D+R)	(H)	(A+B+C+E F+G+H
306.19 1.23 Mth(s)	- 22 g	0	2					3	26 T V	24.50	434.34	800.97
1.23 NUB(S)	-	-	+	-								
PPAC on Fix		é.		3	- 1			8	1	Peasion	Surcharge	
Chg(G)				2	- 3	c 22		2	1. 1		0% (F)	
24.30	-	-	-			5 3		8	5 8	CC	.64	
CCTV Units			-	0	-			-		Bill An	iount (I)	
0.00		0		0	5			0			00	
Street Light Units		5		5		1 3		2		Street Li	pht Points	
WI-FI Units	TOTAL >	×	0		0.00		.00		· · · · · ·	THE OWNER AND THE OWNER	W 48W	
wire cans										1011 -1	and the second	
Past Ducs / Ref		0	-	-	_				-			
	unds / Subsid		Late Pa			er Charg		al Charges		a ne ma	as N	et Amount
Amount	Period to	which 5	urcharge	(LPSC)	1 235	if any *	100 100	Payable				Payable
(214.46)	it ett	(C)	12.0	0	-	0.00	-	599.11		000300.975	9	(201,86)
	2215	Rs 0				10000		399.11	_		-	
Amount not	immediately	Ks. 0	00		Reason					ill Ame		yable
payable, if a	IV.	Contraction 11	. 1/16/	00 54	anity D		h DISCOM	Rs. 4500.0		Rs. 0.00)	
				2.0	2.5.3	100 C		Rs. (218.2				
Interest accrued f (generated for th								Rs. (218.2		Due Date	of Paym	ent
							Y 2021-22					

Lust payment Rs. 15700.00 received on 24-03-2020 Payment Accounted Upto. 12-07-2020 [the next kill. The connection shall be liable for discontection on nen payment of all dues(including arears of previous bill(s)) by due date, after notice as per Section 56(1) of the Electricity Act, 2003.



CA No. :152898674 :100036154405 Bill No.

Bill Date :15-07-2020

Name :NARINDER PAL SINGH KHURANA & GURPREET SINGH KHURANA

Billing Address :S/O GURBACHAN SINGH & S/O NARINDER PAL PLOT NO- M-116 S/F BLOCK-M VIKAS PURI NEW DELHI 110018

fotal Solar Ge	eneration	For The l	Billing Perio	d Cumula	tive Gene	ration in FY	Solar Insta	illation De	tails D	ate of Install	lation	Capicit	ty kWp
Jnits		-	4768		5450	_				02-01-202	0	10	.73
B/F Units If any)	Ex	port Read	ling	Im	port Read	ling	No	t Differer	ice	Ma	derated L	nits	C/F Unit (If any)
ii any)	Normal	Peak	Offpeak	Normal	Peak	Offpeak	Normal	Peak	Offpeak	Normal	Peak	Offpeak	(it any)
0	3116	0	0	1710	0	0	(1406)	0	0	0	0	0	(1406)
0	5110	v	0	1/10	, v	v	(1400)	0	v	v		v	

Date of Print Out: 17.07.2020

Meter Details Annexure

Meter No	Units	Billed Consumption	(Current)	Billed Consumption	(Previous)	Multiplication	Current Co	onsumption
		Date of Meter Reading	Reading	Date of Meter Reading	Reading	Factor	Days	Units
47001468	kWh	08-07-2020	6,952.50	01-06-2020	2,184.59	1.00	37	4,768.0
47001468	kW	08-07-2020	8.26			1.00		8.2
47001468	kVAh	08-07-2020	6,953.30	01-06-2020	2,185.30	1.00	37	4,768.0
47001468	kVA	08-07-2020	8.26			1.00		8.2
48650966	kWh	08-07-2020	3,321.50	01-06-2020	1,611.58	1.00	37	1,710.0
48650966	kW	08-07-2020	4.74			1.00		4.7
48650966	kVAh	08-07-2020	3,329.50	01-06-2020	1,613.09	1.00	37	1,716.0
48650966	kVA	08-07-2020	4.74			1.00		4.7
48650966	kWh N	08-07-2020	4,922.00	01-06-2020	1,805.83	1.00	37	3,116.0





TESTIMONIAL

"Thank you Ruchi, with your suggestions and strategies I was able to reduce my electricity bill from Rs 20,000 to Rs 6,000 a month."



Mr. Solomon (Director of Solo sales)



BEFORE

BILL-CUM-MOTCE Pro Name : SMT LALTI SINGH W Address : A-16 SEC-31 GB 1 Cele: CRR 14102 Vietsion : SD/01410222 Ske Division : SD/01410222 C No :	O SHURK SINCH	219031 57	Bill No: 246505759463 Bill No: 246505759463 Bill Date : 14-MAY-2020 Bill Month : MAY-2020	Bill Due Date Disconnection Date	A/C No : 246929959 2010/2020 04:41:22 Pt 31-MAY-3020 07-JUN-3020	81 M				
Neter Badge Meter	Recor Bill	Previous	Current	DIF M.F Diled	Period Meter Read	Meter	on Date		Due Date	31-MAY-202
No. No. No. 7847528 7847528 7847528	d Basis Dend CK	Read Date Re 05-MAR-20 1733	ad Read Date Read	2085 1 2085 1 3 KW	(Montha) Rmrk 2 OK 2 OK	A A	¥-20	Cashier Signature	Total Amount Payable by due Date(₹)	2039
Assessed KWH KVAH	KVA KVA	-	Adjustment Units		Total Billed Units 2005		DD/Chequ	e in favour of EXECUTIVI	E ENGINEER - EUDD-2 NOIDA Please update	your Mobile #
Arrears Deta Category Unacs Previous Late Pyrnnt Surcharg Uncellaneous Armens	Amount(7) 4670.47 0.00	Unita Rates 300 5.5		actiption Tarff Code Supply Type (Charge Sanctioned Load	Connection Details	LMV1 10 8.00 KW	EE 191	2 FOR BILL & S	UPPLY COMPLAINTS	
fotal	0.00 4670.47	400 6.5 1086 7 300 6	7602.00 Energ	(ST-108) (Charge (ST-108) (Charge (ST-108) (Charge (ST-108) (ST-108)	ncal (T) by	0.00 0 3300				
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DIAL TOLL FREE 1912 FOR BILL & SUPPLY COMPLAINTS



AFTER

eme : SMT LALTI SINGH W/O SH R/K SINGH iddreun: A-15 SEC-31 GB NAGAR Nolds IV 20 rdle : CIR14102 Book No : 141 iden: DV141022 SC No : PV 2 6 Division : SD01410222 Account No : 2	11301 IND 1022219031 Bill Debr	= 246928836341 # : 03-JUN-2025 #h : JUN-2020	Bill Due Date Disconnection Date	10-JUN-2020 17-JUN-2020		2 5		
No : Mabile No :					llection Date		Due Date	10-JUN-202
No. Meler Recor Bill No. d Ban 7528 7847528 CK		Current Read Date Read 03-JUN-20 20266	DIF MLF Billed Units 856 1 856 KWH	Period Meter Read Ronck Status 1 OK A	► 14-JUN-20	Cashier Signature	Total Amount Payable by due Date(₹)	645
Assessed Units KVA KVA		fment Units	1 3 KW	1 OK A Total Billed Units 856	Pay DD/Cheque	e in favour of EXECUTIVE	E ENGINEER - EUDD-2 NOIDA Please update yo	our Mobile #
Arrears Details(?) degory Arrount(?) nems 44.2 workau Late Pyrent Surcharge workau cate Pyrent Surcharge 0.0 tal 44.2 0.0 44.2 4	Units Rates . 48. 27 150 6 . 00 150 5.5 .	Amount Descrip 900.00 Energy Ch. 825.00 Energy Ch.	ption Tartf Code Supply Type Sanctioned Load Security Deposit (Connection Details LMV1 10 8.00 KW 10 10 10 10 10 10 10 10 10 10	FREE 1912	2 FOR BILL & SI	UPPLY COMPLAINTS	
13		1300.00 Energy Chu (ST- 2492.00 Energy Chu	-108) Additional Security security Deposit in -108) arge	nca (7) 0 ity 0				
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DIAL TOLL FREE 1912 FOR BILL & SUPPLY COMPLAINTS



MENTOR'S GIFT

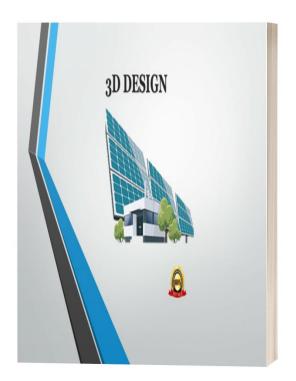
A SPECIAL GIFT FOR YOUR VALUABLE TIME





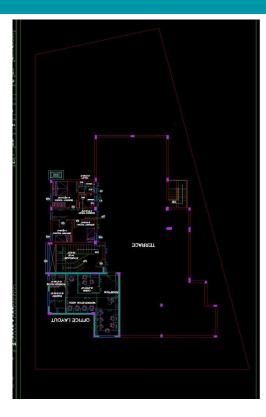
COMPLETE 3D DESIGN



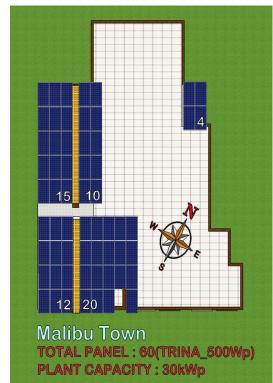




COMPLETE 3D DESIGN

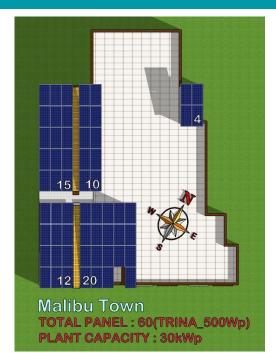


Autocad Design to 3D Design

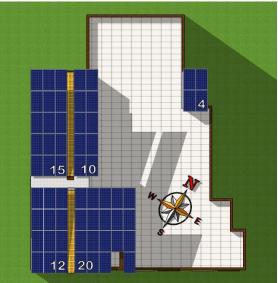




SHADOW ANALYSIS



Summer Solstice



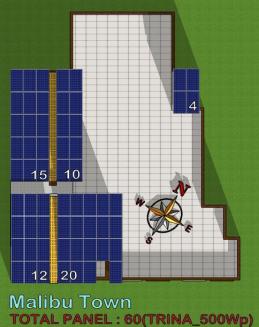
Malibu Town Total Panel : 60(TRINA_500Wp) PLANT CAPACITY : 30kWp

21 JUNE 4:00 PM

21 JUNE 9:00 AM



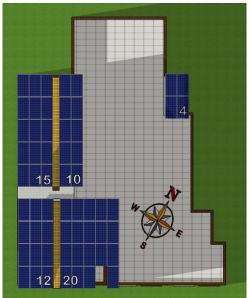
SHADOW ANALYSIS



PLANT CAPACITY : 30kWp

21 DECEMBER 9:00 AM

Winter Solstice



Malibu Town TOTAL PANEL : 60(TRINA_500Wp) PLANT CAPACITY : 30kWp

21 DECEMBER 4:00 PM

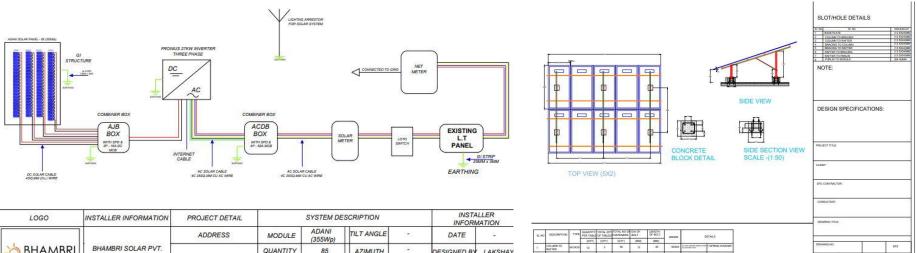


3D MODELLING OF SOLAR DESIGN





SINGLE LINE DIAGRAM/ LAYOUTS



			12				INFORM	IATION
		ADDRESS	MODULE	ADANI (355Wp)	TILT ANGLE	(8)	DATE	2
BHAMBRI	BHAMBRI SOLAR PVT. LTD.		QUANTITY	85	AZIMUTH	(1)	DESIGNED BY	LAKSHAY
F & O C A X		PUSHPANJALI FARMS	SYSTEM (DC)	30Kw	INVERTER	FRONIUS	CHECK BY	
			SYSTEM (AC)	-	QUANTITY	1	SHEET SIZE	A4

52.NO	DESCRIPTION	TYPE	QUANTITY PER TABLE	OF TABLES	FASTENERS	DIA OF BOLT	OF BOLT	GRADE		CTAILS.
			(070)	(077)	(QTV)	(MN)	(NB/)			
1	COLUMN TO RAFTER	M12X30	12	3	38	12	30	55304	private encoded to the courter of the state of the courter of the	SPRING WASHER
	RAFTER TO PURLIN	M12K30	18	3	54	u	30	55304	United states of states (2010) States (2010)	I SPRING WASHER
	COLLINN TO BRACING	M12X30	25	3	75	12	30	05304	Sinces realists search the point of the second seco	I SPRING WASHER
	PURLIN TO MODULE	MEC20	60	3	180		20	55304	process and state and state of the sector of	I SPRING WASHER

DRAMING TITLE			
DRAWING NO			NT
DRAWN	LAKSHAY MEHRA	SHEET NO.	
DRAWN CHECKED	LAKSHAY MDIRA	SHEET NO.	t A3
erentes s			- 202



GENERATION REPORT WITH DESIGN (SOLAR LAB)

Mr. Nipun Sultanpur farm **30.26 kWp** (28.48749, 77.15874)

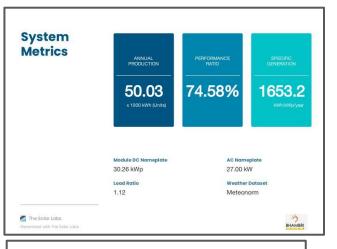
Mr. Nipun

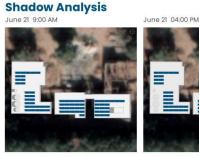
nagery C2021 CNES / Airbus, Maxar Technologie:

Click to View 3D Model

info@bhambrienterprises.com 9711918862 www.kingsunsolarproducts.com









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The Solar Labs

Generated with The Salar Labs

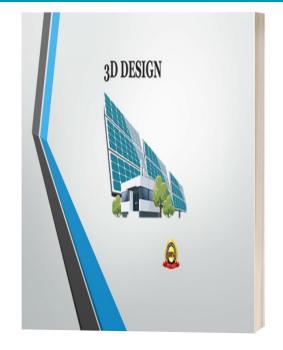
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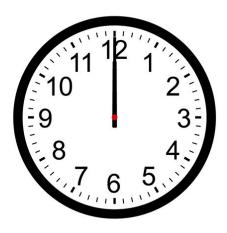






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