



RAYMAGIC

GREEN ENERGY PVT LTD

OUR MAGICAL TOUCH CONVERT SUN-RAY'S INTO ENERGY.



COMPANY PROFILE

Solar Rooftop System | Solar Power Plants | Solar Water Heaters | Solar Street Lights | Solar Products
Solar Cookers | Solar Panels | Solar Inverter | Solar Structures

About Us

Raymagic Green Energy Pvt. Ltd. is a Solar EPC, Distribution Company specializing in turnkey construction of solar power plant, roof top solar systems, solar water heaters, solar street lights, other solar products on residential, commercial and industrial and institutional small and large scale. Our specialization covers the entire value chain, ranging from project development, constructions, financing to operations and maintenance of solar systems. Our expertise focuses on the technical and economical optimization of the solar projects. Raymagic Technologies is developing a qualified line of national projects in the solar sector that are available to investors interested in solar energy sector. We are glad to share you quote and profile.



At a Glance

11 Years

Experience since 2013
(Formerly Raymagic Technologies)

2.96 MW

Installed Capacity

4,47,000 Litres

Water Heated till date

15 Experts

Working with us.

10+ Products

of Solar Available

CEO - Managing Director

Yogesh Dattatraya Gosavi



Yogesh is Managing Director of Raymagic Green Energy Private Limited. He is active in this field Since 2009. In 2013 he established Raymagic Technologies as a Proprietary Firm.

He is active member of Solar Bodies of Maharashtra and India. He has worked as Board Member with MASMA (The Maharashtra Solar Manufacturers Association.) and worked with nodal agencies. He have completed his Triple Masters viz M.Com, E-MBA (Finance) and MBA (Management). He have vast experience of 15 years in the field of Solar. Has been awarded by Economic Time, EQ International etc.

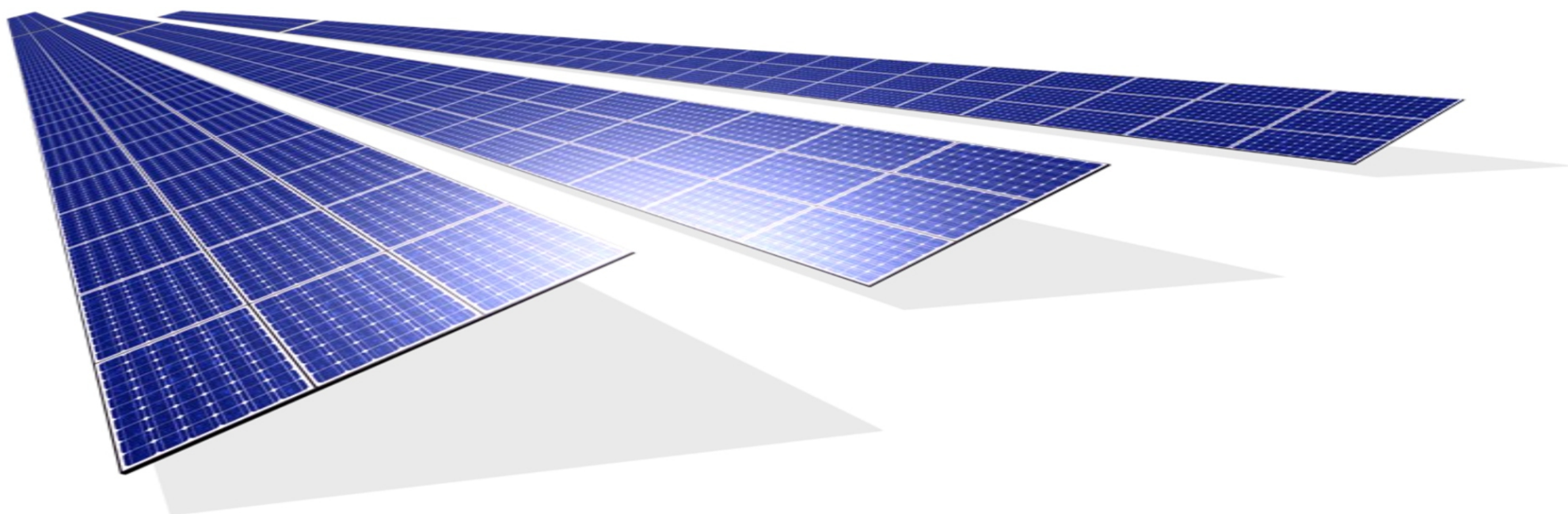
About Our Team

Work together, dream together. Together, we're all experts.

We are motivated to bring lowest cost power in the world of Solar Power. Our key values including executing project's safely and with exceptional quality. Since the day of inception we thrived and achieved a substantial reduction in total solar project cost, which includes a significant decrease in balance of systems cost due in part to our value engineering, combination of different equipments and permutations of design efforts for maximize output in lower costs. We offer turnkey services of solar products. We're looking forward to serve you soon.

Recent Projects by Team Raymagic

- A.18 Kw Rooftop Solar Project at Kamayni School for Mentally Handicapped, Nigdi, Pune
- B.05 Kw Rooftop Solar Project at Veer Chpherkar Samiti, Khivsara Patil High School, Chinchwad, Pune
- C.40 Kw Rooftop Solar Project at Uday Urban Kirana, Pune
- D.18 Kw Rooftop Solar Project at Mangal Upavan Society Chinchwad Pune
- E.54 Kw Rooftop Solar Project at The Onella Regency Panchgani
- F.06 Kw Rooftop Solar Project at Blossom Bulevard, Koregaon Park, Pune
- G.05 Kw Rooftop Solar Project at Megacenter, Pune
- H.03 Kw Rooftop Solar Project at S.B.Road, Pune
- I.55 Kw Rooftop Solar Project at Bhigwan, Pune
- J.128 Kw Industrial Solar Project at Cold Storage, Karad
- K.15 Kw Offgrid Anant Villa Resort at Bhushi Dam, Lonavala
- L.05 Kw Rooftop Solar Project at Kesnand, Pune



What Is Solar Energy

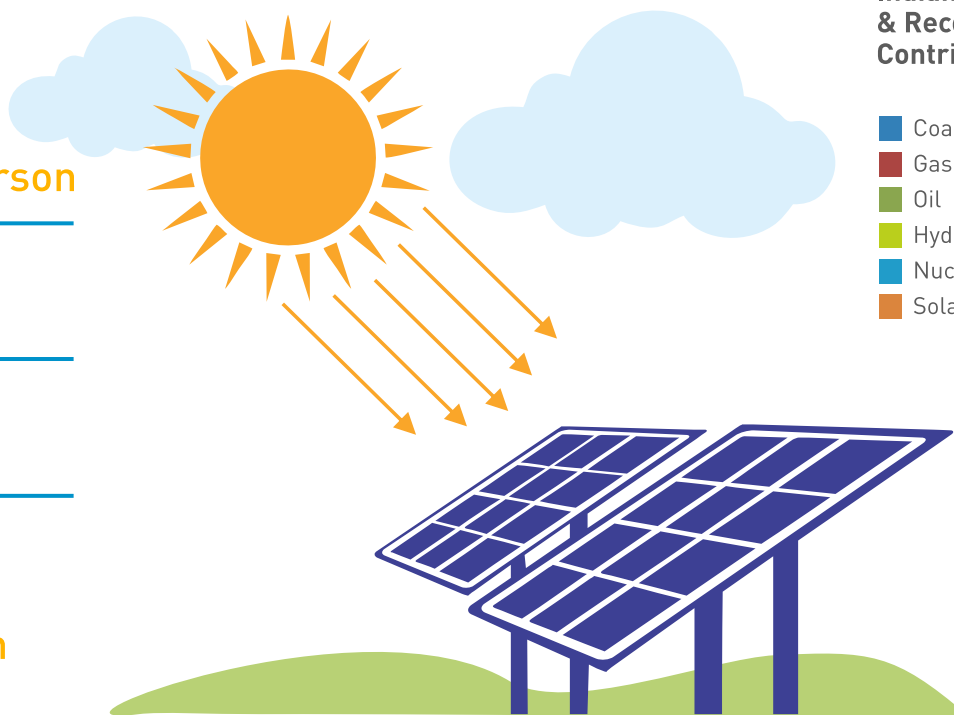
Solar energy is radiant energy emitted by the sun

World's Electrical Energy Consumption:
7.25 KWh/day/person

World Population:
7 billion

Annual Energy Required:
18.5 trillion KWh

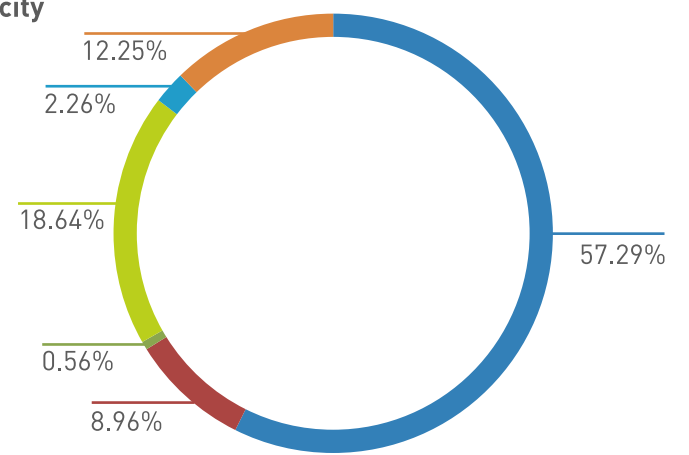
Solar energy received Earth's surface at any given hour:
255.6 trillion KWh



Indian Electricity Scenario

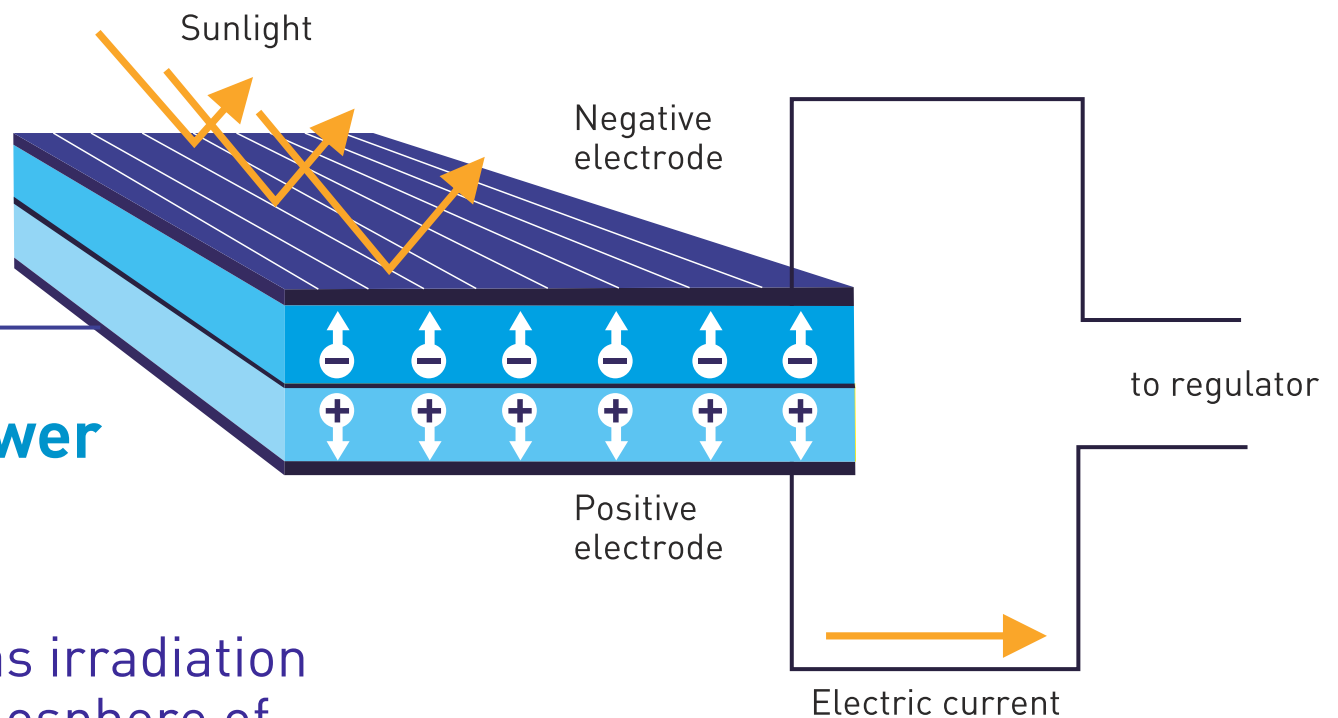
Indian Electricity & Recourse Contribution

- Coal
- Gas
- Oil
- Hydro
- Nuclear
- Solar



Cross section of a solar cell

n-type semiconductor
p-type semiconductor



Working of Solar Power Generation System

Sun emits light as well as irradiation which is received by atmosphere of earth and then ground of earth. Which is then converted into the electricity by PV Solar panels.

At present India needs
238899 MW

India needs in 2030
400000 MW

Needs more plants of
161101 MW

The Government of India and PM Modji has an ambitious mission of power for all by 2022. This mission would require that the installed generation capacity should be at least 500GW by December 2022, by grid connected solar. From present level, we have to double the power generation in India, For which PM has launched PM Suryaghar Yojana in Mar 2024.



1. Solar Roof-top System

1Kw to 10Mw Rooftop systems available for Residential, Industrial usage.

2. Solar Power Plant

1Kw to 100 Mw any capacity Power Plant You can place in your empty space.



3. Solar Water Heater

100 LPD to 10,00,000 LPD any Capacity Solar Water Heater and Hot Water Plants, we can provide for Domestic or Industrial Use.



4. Solar Street Lights

There are various types of solar street lights like standard solar light, semi-integrated solar light and integrated solar street light (all-in-one).

5. Solar Pumps

Solar pumps available in 1 to 10 hp size as per requirements.



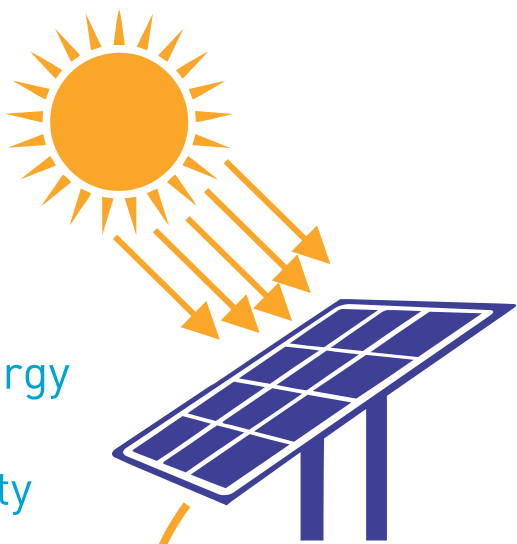
6. Other Solar Products

We deals in various solar products viz. Home Light System, Solar Cooker, Solar Fan, Solar Charger, ACDB, DCDB, Mc4 Connectors, DC Cables, Tabular Batteries, U, Z Clamp's, J Hooks, Solar Structure's, Earthing Materials, entire solar solution's.

Photovoltaic Solar Example

1

Solar panels converts energy from the sun into electricity



3

The energy is used in your home, school or business



2

An inverter converts the electricity produced by the solar panels from direct current (DC) to alternating current (AC) for use in your home, school or business



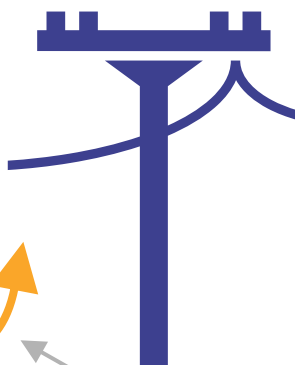
Energy used in your home from the electrical grid

4

A bi-directional meter measured energy used and excess energy produced

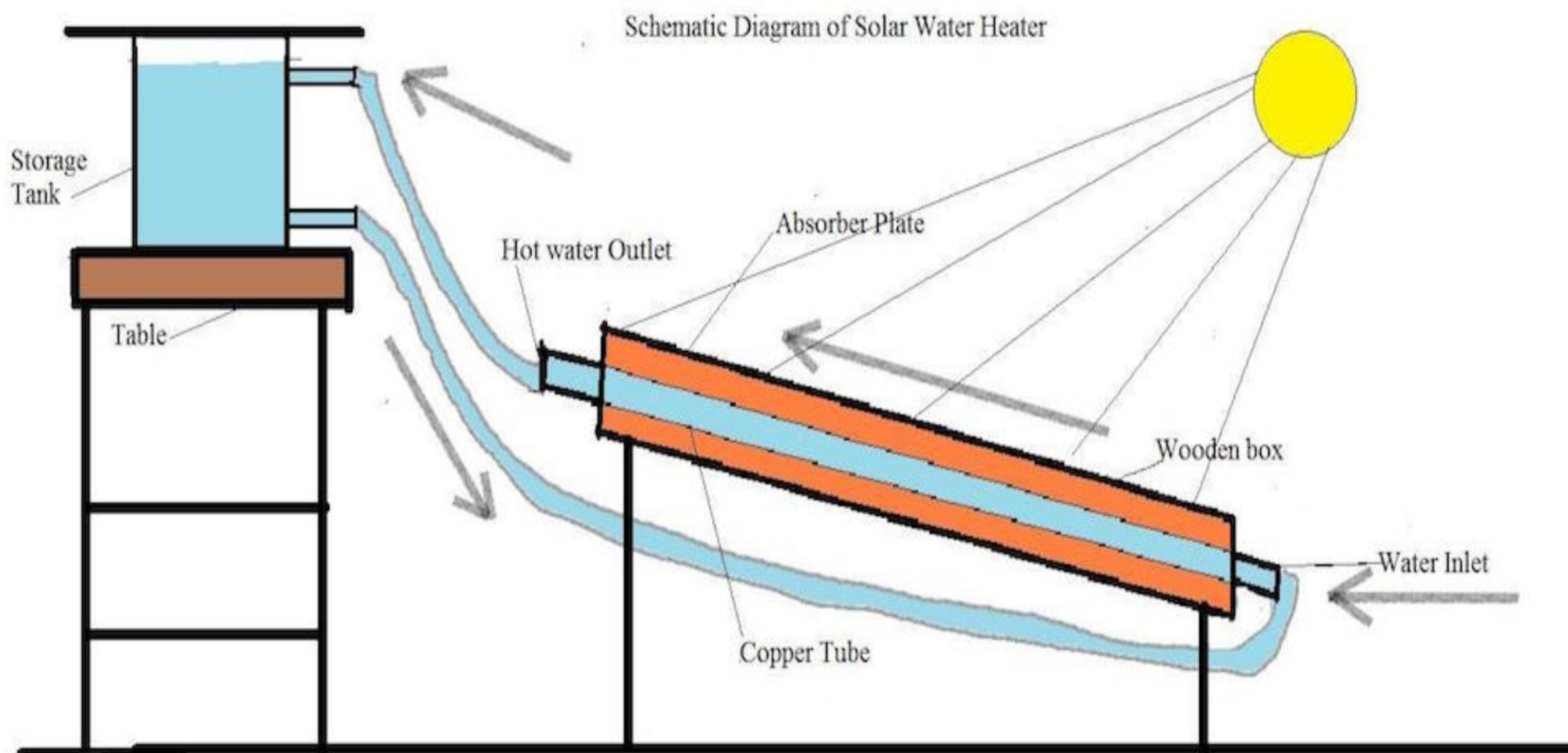


5

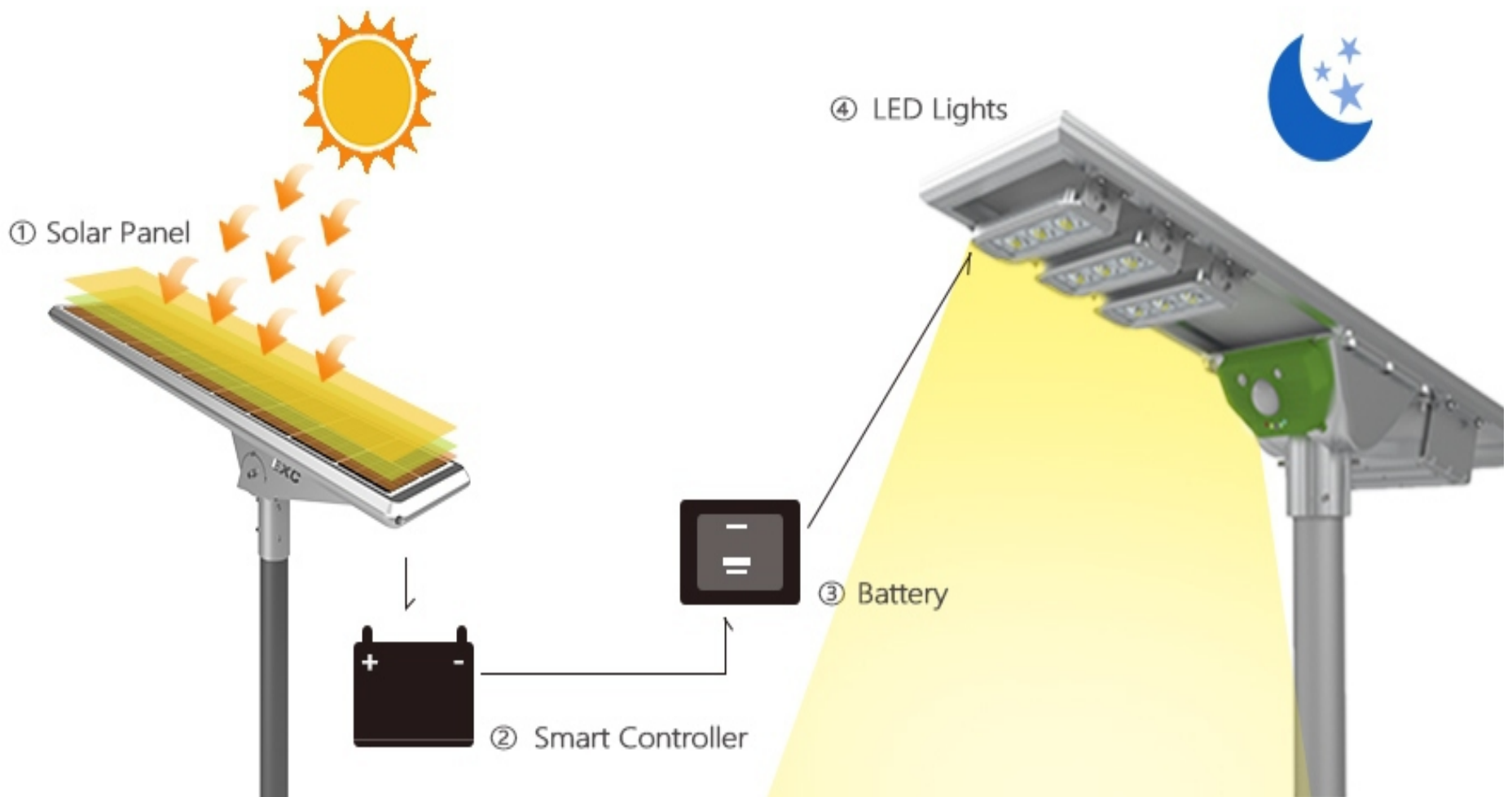


Excess energy from your solar panels not used in your home goes back to the electrical grid

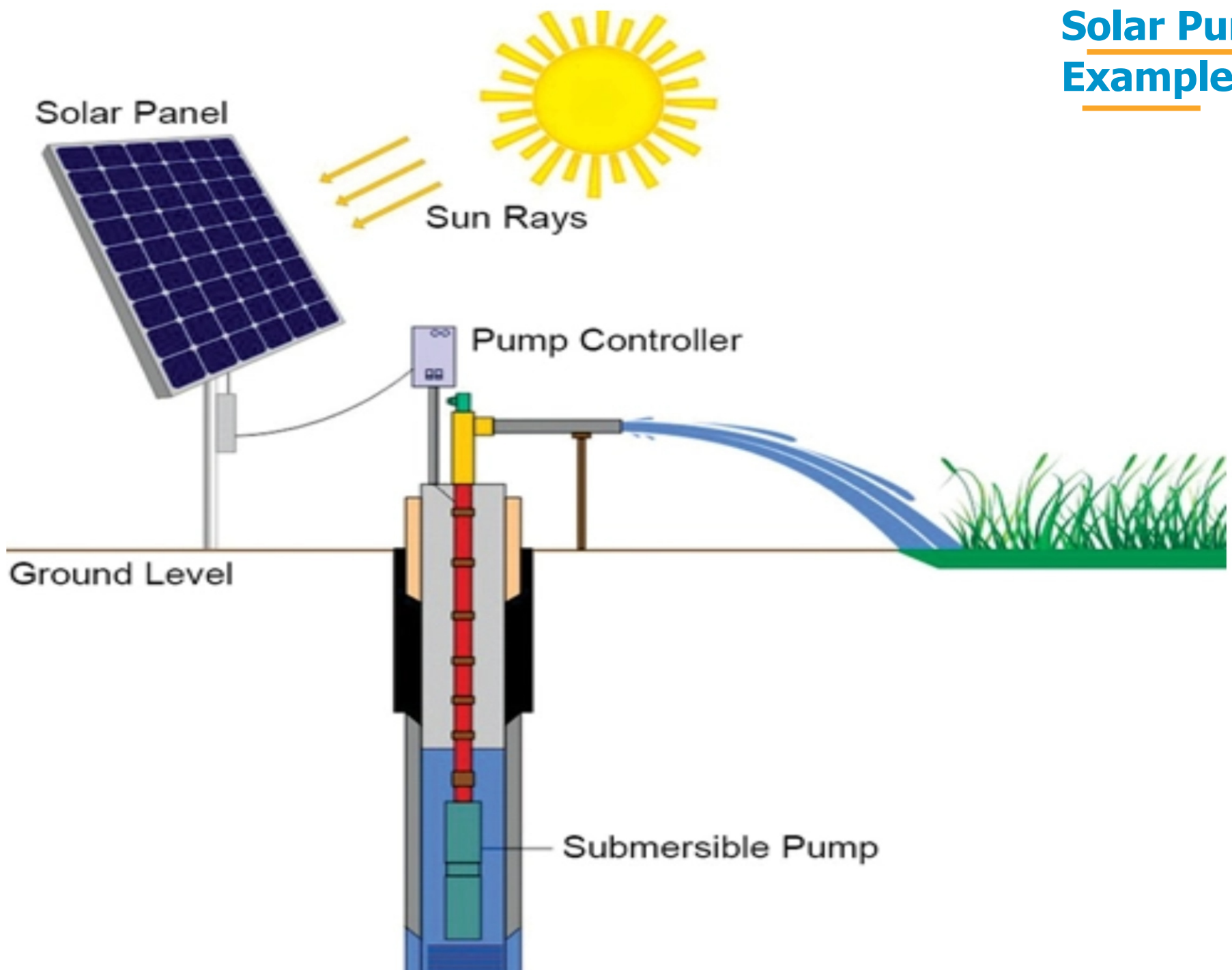
Solar Water Heater Example



Solar Street Light Example



Solar Pumps Example



SOLAR BUYING GUIDE

Solar Power Projects are for long term (25-27 Years) and Solar Water Heater Projects are for 7-10 Years. This projects needs huge investment hence, the buyer need to understand the basics before buying, so as to get the reliable, durable, best quality and high yielding solar project at right price and with easily available service, maintenance as and when required to it. We herewith sharing few important points to consider before buying Solar Systems.

WHAT WOULD BE IDEAL CAPACITY OF PROJECT?

ROOFTOP SYSTEMS

Project capacity required depends upon two important factors, a. Your monthly unit's consumption (Kwh) and b. Availability of shadow free area. Usually 1 Kw solar photovoltaic project generates around 120 to 150 Units per month and required 100 Sq.Ft. of shadow free area. Apart from this you need to take average of yearly consumption plus load of new electrical equipments to be added at home.

WATER HEATING SYSTEMS

Usually One person requires 20 to 30 liters of Hot water for bath. As per standard practices one person two baths or one time bath and evening hand and feet washing need 50 liters of Hot water in this ratio water tank can be calculated. For e.g. 1 person LPD, 2 people 100 LPD, 3 people 150 LPD, 4 people 200 LPD .

HOW TO DECIDE ON SELECTION OF VITAL COMPONENTS OF PV SYSTEM?

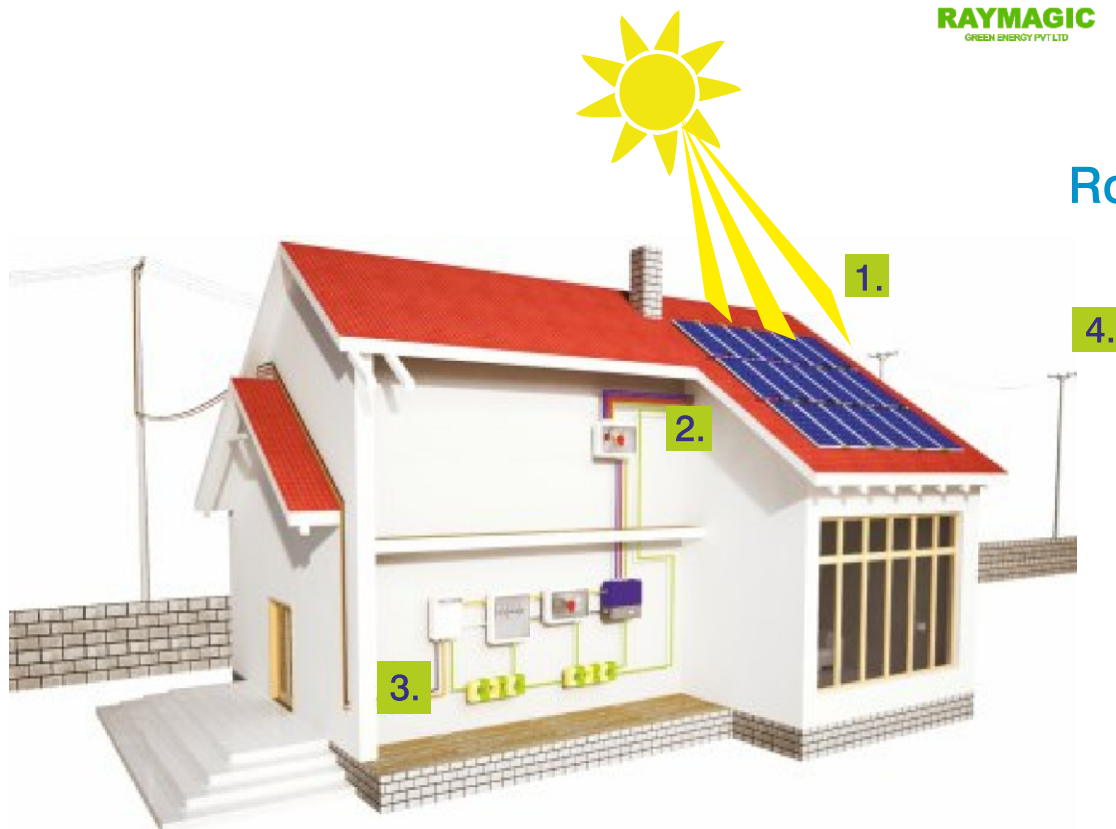
SOLAR MODULES

The amount of electricity a given solar panel can produce will produce is dependent on several factors, including the power rating, power tolerance, efficiency and temperature coefficient. The decision on type of SOLAR Module depends up on two factors i.e. Technology and Brand (Manufacturer). As far as technology concerned there are two popular technologies i.e. Polycrystalline & Mono-crystalline. Mono-crystalline is the latest technology and more efficient than Polycrystalline. Cost wise Mono-crystalline modules are bit costlier than Polycrystalline. Polycrystalline modules are available up to 335, 340-350 Wp, However, Mono-crystalline starts from 400w and even in it latest Mono-Perc and half cut Modules are available up to 710 Wp in India. The solar panel warranty conditions and its manufacturer reputation is also to be taken care while deciding for the brand.

OTHER EQUIPMENTS

BoS refers to all components of a PV system other than the modules & Inverter like structure, cables or wires, switches, enclosures, fuses, ground fault detectors, connectors, junction boxes, cables, small nut & bolts etc., choosing low quality products may have risk for power losses, system failure/downtime, or even a fire may increase significantly during the operation phase. We cannot ignore the quality of earthing and other protection components for a better working and trouble-free life. As a result, for the well-being of solar power generation, these components of the total system mean a lot. It can prove to be fatal for human life as well as power system, if any low-quality standards or compromise is used for ACDB, Earthing, AJB, SPD, etc. In Array Junction Box (AJB) and AC Distribution Box (ACDB), most of the solar power installer does not add the required protection devices to save money. However, as per the design fuses, surge protection device (SPD) and DC Isolator if not present in the Inverter should be added, to have a safer functioning of the Solar PV rooftop system on the DC side AJB. For instance, if DC side surge protection device and fuses are not added, and a high surge comes, then it may damage the Inverter, and we all are aware that Inverter Company's warranty does not cover claim on damage due to such scenarios.

Rooftop On Grid Solar Net Meter Systems



1. Solar Panel Converts Sunlight to DC Current.
2. Inverter converts Electricity DC to AC.
3. Take electricity your home requires.
4. Extra electricity export on grid.

Tell your electricity rates to stick it where the **sun shines..**

Such systems could be installed on society terraces, sheds of factories, common amenities, hotels, building, bungalows, penthouses, hospitals etc.

Wherein the electrical energy generated by this solar system will be used by the customer or exported to the grid.

We reduce your monthly electricity bills by - 100%

& assure recovery of invested amount within 2-3 yrs.

Solar Electric Bill For Reference



Maharashtra State Electricity Distribution Co. Ltd.



BILL OF SUPPLY FOR THE MONTH OF APR 2024

000001645111786 (Opted for Go-Green)
GSTIN: 27AA ECM2933K1ZB
GANESHKIND (U) CIRCLE:517

Website : www.mahadiscom.in
SHIVAJI NAGAR DIVISION : 302

HSN CODE: 27160000
GANESH KHIND SUB-DN.: 598 1

Consumer No. :	170*****
Consumer Name :	Mr. XXXXXXXX *****
Address :	*****
Village :	Pune (M Corp.) Ta:PUNE CITY Pincode 411016 Di:PUNE

BILL DATE	07/04/2024	0.00
DUE DATE	28/04/2024	
IF PAID UPTO		
IF PAID AFTER	07/04/2024	0.00
Last Receipt No./Date		07-04-2024
Last Month Payment		00.00
Scale / Sector		Large Scale/Private Sector

Email ID :	*****@gmail.com	Activity :		Load Shed Ind :	
Mobile No. :	92*****	Meter No. :	0*****3	Seasonal :	N
Tariff :	092 LT I Res 3-Phase	Connected Load (KW) :	6 KW	Urban/Rural Flag :	U
Contract Demand (KVA) :	0.00	40% of Con. Demand(KVA) :	0.00	Feeder Voltage (KV) :	11
Sanctioned load (KW) :	6 KW			LIS Indicator :	
DTC :	4568712	PC-MR-ROUTE-SEQ :	0*****-0130	BU :	4568
Date of Connection :	15-09-2017	Category :	LT I Res 3-Phase	PC :	0
Supply at :	LT	Elec. Duty :	01	GSTIN :	
Prev. Highest (Mth) :		Prev. Highest Bill Demand (KVA) :		PAN :	
Security Deposit Held Rs. :	3,000.00	Addl. S.D. Demanded Rs. :	00.00		
Bank Guarantee Rs. :	0.00	S.D. Arrears Rs. :	00.00		

Bill Month	Consumption (Units)	Bill Demand (KVA)	Bill Amount
Mar 2024	0	0	0
Feb 2024	0	0	0
Jan 2024	0	0	0
Dec 2023	0	0	0
Nov 2023	0	0	0
Oct 2023	0	0	0
Sep 2023	0	0	0
Aug 2023	0	0	0
July 2023	0	0	0
Jun 2023	0	0	0
May 2023	0	0	0
Apr 2023	0	0	0

CUSTOMER CARE Toll Free No.
1912, 1800-102-3435, 1800-233-3435

Rule & Procedure for Consumer Grievances Redressal is available at www.mahadiscom.in -> consumer portal->CGRF Instead of Printed bill , register for E-bill and avail Rs. 10 per bill as a "Go-green " discount.For registration visit at www.mahadiscom.in -> consumer portal->Quick access->Go-green request

Billed Demand (KVA)	@ Rs.	360	Demand Charges	360.00
Assessed P.F.	Avg. P.F.	0.000	Wheeling Charge @ 01.35	00.00
Billed P.F.	L.F.	0.000	Energy Charges	00.00
Consumption Type	Units	Rate	Charges Rs.	TOD Tariff EC
Industrial			00.00	00.00
Residential	0	0.00	00.00	00.00
Commercial			00.00	00.00
E.D. on(Rs)	Rate %	Amount Rs.	other charges	-20.00
0.00	0	0.00	Tax on Sale @ 0 Ps/U	00.00
360.00	16	0.00	P.F. Penal Charges/P.F. Inc.	00.00
0.00	0	0.00	Charges For Excess Demand	00.00
TOD Zone	Rate	Units	Demand	Charges Rs.
2200 Hrs-0600 Hrs	00.00	0	0.00	0.00
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	00.00	0	0.00	0.00
0900 Hrs - 1200 Hrs	00.00	0	0.00	0.00
1800 Hrs-2200 Hrs	00.00	0	0.00	0.00
TOTAL	2,694.00	2,404.00	290.00	4,810.00

SOLAR NET METER CONSUMPTION DETAILS									
SOLAR TARIFF	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
0900 Hrs - 1200 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
1800 Hrs-2200 Hrs	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
TOTAL	2,694.00	2,404.00	290.00	4,810.00	4,470.00	340.00	9,878.00	9,364.00	514.00

The meaning of Net Metering Solar Energy System is a billing mechanism that credits solar energy system owners, for the electricity they add to the grid. Because solar energy system makes your electricity bill equals to zero. With this, you only pay for the electricity that you use beyond what your solar system can generate.



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Our magical touch convert Sun-rays into Energy.

**405/410, Raymagic House,
Pantloons Mall, Next to Appollo Tyres,
Senapati Bapat Marg, Chaturshringi
Pune 411016 (Maha.) INDIA**

**Phone : +91 20 610 94 94 6 | Mobile : +91 888 85 85 3 85
Web : www.raymagic.in | Email : contact@raymagic.in**