

Rooftop Solar Power Plant : Site Feasibility Assessment

Dear Customer,

We acknowledge with thanks the requirement shared by you and would like to take this up further.

For preliminary assessment please organizes basic information like below to organize further:

- A. **Rooftop space availability.**
- B. Connected electrical **Load profile** (i.e. average load & consumption pattern in a typical day in winter and summer).
- C. **Electrical single line / wiring diagram.**
- D. Your expected **budget and fund** available for this requirement
- E. Your **expectations from the Solar System** and **Antriksh Photonergy.**
- F. **Contact details, site address** and timelines for the project.

Action next :

- We will review the requirement based on details provided and then arrange for a budgetary proposal.
- Upon your consent and feasibility assessment, we will have formal contract to engage our Authorized Installer to do detailed site survey, engineering and design and then to have the advances/PO to execute the project.

Quick inputs about Solar PV (Photovoltaic) Energy Generation technology :

- Approx. **4.8-8.0 sq mt of Module surface** area is equal to 1kWp i.e. approx. **6-10 sq Mt roof space can accommodate 1kWp** Solar PV system, subject to Shadow analysis.
- Without battery backup this will have energy production during sunny hours only, not 24 x 7.
- Expected generation in India (**kWh/kWp**) is **1200-1750 units / Annum** for life time (>25 years) which can be optimized after detail engineering.
- Approx. Investments for a typical good **On-Grid** (battery less) **system** should be around **INR 1.0-1.7 Lacs/kWp** depending upon size and scope of project, site survey and detailed engineering, load analysis, grid evacuation etc. analysis. While battery based system are 1.5 to 2 times of this investment.
- Approx. time required for project execution is **1-6 months** from advance / contract.
- There are many technologies available which has **2 - 25 years guaranteed life and generation with reliability** and cost depends upon the choice of components and system design.
- The Values offered by skilled professional like **Antriksh Photonergy** is by bring clear understanding and cost benefit analysis of various choices and help to select the best suitable option meeting your need.

If this information is able to help you in decision upon investment, we can take it up further. Please send us a formal requirement giving full details of your organization, establishment, drawings etc. by filling the next page to proceed further.



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SN	Particulars	Customer Details
1	Customer Contact Details : Name Designation Department Company Name Address City Mobile no Phone Number Email Address Website address	Mr.
2	Type of User	Individual/ Institutional/ Commercial
3	Your expectations from the Solar System	What you would like to achieve from this system (select from below): a. want to feed power to in-house load b. sell the power to grid and reduce electricity bill c. to consume power within and sell excess to grid
4	Your expectations from "Antriksh Photenergy"	What is the requirement, scope you would like to keep for us (select) : a. Pre-feasibility study b. Site survey c. Design & Engineering d. Budget, Estimation and evaluation of various options e. Detailed project report (DPR) f. Tendering and procurement g. Project Management h. Owner's Engineer i. Turnkey Project execution j. O&M, AMC k. Training & Presentation l. Any other consultancy
5	Your expected budget and fund available for this requirement	Amount in Rs. Lacs → Fund form – own investment / Equity / Loan / financing / EMI / Other
6	Project size (kWp) Project Type	kWp → a. Grid Connected : Net metered / Grid Interactive b. Off Grid : Islanded Off Grid / Hybrid / DG-Hybrid
7	Project Time-line Expected tender date Expected order date Expected Project completion date	
8	Building Ownership	Lease/ rented /own.
9	Site address	

10	Site coordinates Site latitude	Sample Data - 26.300488 (26°18'01.8"N)
11	Site longitude	Sample Data - 78.108822 (78°06'31.8"E)
12	Available space i.e. area (in Sq. mtr.)	Length x Width / Dimensions of Roof/Ground
13	Rooftop CAD drawing & pictures	Attach(if Available)
14	Rooftop drawings - space availability	Attach plot plan / rooftop drawings with marking of shadow free area Attach orientation / Google earth map capturing premises
15	Roof's Height /Elevation from ground	
16	Roof covered with boundary wall or not?	Yes / No,
17	Type of Roof	RCC / Concrete roof/ Metal roof /metallic Shed/ industrial roof / flat/ Other (describe) →
18	Boundary wall height	Height (in mtr.) →
19	Plain roof or covered with pillars	
20	Facing of Roof / Roof slope	Towards-North/East/South/West SE/SW, in Degree?
21	Any obstruction on Roof/Ground	Yes/No, Define if any
22	Sanctioned Load (in kW)	
23	Connection Voltage (in Volts/kV)	Pls specify 415V/11KV/33KV and State Electric Board
24	Total Connected Load (kW)	
25	Average Load in Day time in Summer	
26	Average Load in Day time in Winter	
27	Diesel Generator Capacity (in kVA)	Specify if available
28	Availability of Grid Supply (in Hrs.) in day time	
29	Electricity Bill of Summer & winter	Attached copy with email.
30	Electrical single line diagram	Attach drawing defining how the present demand is likely to be met through Grid / DG / other sources. Drawing showing your HT /LT connections.
31	Control room for solar plant	Confirm Availability of space
32	Roof access and feasibility of approach	Describe - easy/difficult, Stairs/Lift/ladder/Other
33	Distance of roof from Building Control room	
34	Contact technical person Name, address & Mobile number	
35	Send this filled form with attachment to us at the address →	Customer Support, Antriksh Photenergy, RZ-D1/100, FF, Street #5, Mahavir Enclave, New Delhi – 110045 vijayashcreations@gmail.com ; www.photonergy.net