

SOLAR PV POWER PLANT – OFF GRID



WHAT ARE THE ADVANTAGES

- Provides power independently of the utility grid.
- You still have power when the grid is down.
- Don't have to deal with the utility company.
- Can save significantly on initial cost if a long grid extension is needed.
- Really encourages conservation and efficiency in the use of electricity.
- Off-grid people typically get along on far less power than on grid and do it without any significant changes.

WHAT ARE THE DISADVANTAGES

- Higher initial cost (needs a set of batteries and charge controller)
- Higher ongoing time and cost (the cost of batteries over time is significant
- A good generator will likely be necessary from time to time
- The system must be large enough to supply your full power needs during the lowest sun part of the year (although a generator can be used to supplement during the worst times).
- Responsibility for safe and reliable operation, and maintenance rests with user.

Application area

- Hospitals
- Banks
- Malls
- Factories

- Educational Institutions
- Chimerical Buildings
- Complexes
- Showrooms

- Govt. Offices
- Central Shops
- Fuel Stations
- Industries & Corporate Offices

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SOLAR PV POWER PLANT – ON GRID





WHAT ARE THE ADVANTAGES

- Grid tied systems only work when the grid is up.
- If the grid power goes out, the grid tie inverter is required to shut down immediately.
- Lowest initial cost (because there is no need for batteries and charge controller)
- Lowest ongoing maintenance cost (no batteries to maintain and replace)
- Simplest to install
- Most efficient (because there are losses associated with charging batteries)
- You can start small and add (with some imitations)

WHAT ARE THE DISADVANTAGES

- No power when the grid is down.
- Access to the utility power grid is required.

SOLAR PV POWER PLANT – GRID TIED SYSTEMS WITH BATTERIES



WHAT ARE THE ADVANTAGES

- This is Kind of mix of the TWO System
- Operates like Grid tide system but also charges set of batteries
- If the grid goes down, the inverter discontents from the grid and Continuos to supply
- Power to the system from the batteries and inverter

WHAT ARE THE DISADVANTAGES

Additional cost of batteries.

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