

Grid Connected Rooftop Solar power Plant

by Anand Kumar Ashodhiya - Tuesday, November 06, 2018

<http://dayrisesolar.com/grid-connected-rooftop-solar-power-plant/>

Grid Connected Rooftop Solar power Plant Installation is the new found technology to reduce electric bills up to 90% for next 25 years minimum. Government of India, Ministry of New and Renewable [Energy](#) (MNRE) through [Jawahar Lal Nehru National Solar Mission](#) (JNNSM) provides solar subsidy and other incentives to motivate people to go green go solar.

Solar power is by far the Earth's most available energy supply, simply able to offering many times the total current energy demand. It is sufficient to supply all of the world's electricity, by installing solar panels covering 4% of the world's desert area.

Solar power is a predictably intermittent energy source, meaning that whilst solar power is not available at all times, we can find out with high proficiency and accuracy when it will and wont be available.

Solar power is the conversion of sunlight into electricity. Sunlight may be transformed instantly directly into electricity utilising photovoltaics (PV), or indirectly with concentrating solar power (CSP), which normally focuses the solar's energy to boil water. Photovoltaics have been initially used to power small and medium-sized functions, from the calculator powered by a single [solar cell](#) to off-grid houses powered by a photovoltaic array.

The solely vital downside with solar power is upfront installation cost, though solar installation price has been lowering as a result of manufacturing at large scale as well as awareness. Developing international countries have began to construct solar power plants, changing other sources of energy technology.

Since solar power is intermittent, it should be mixed both with storage or other energy sources to provide steady power, though for residential users, institutions and industries, provision of net metering makes this clear to the patron.

One elementary distinction between renewable energy and non-renewable energy is that non-renewable assets may be bought as they're consumed, whereas with renewable assets, you pay upfront cost for the subsequent twenty five years or so of energy.

What is a Grid Connected Rooftop Solar power Plant?

In Grid Connected Rooftop Solar power Plant, the DC power produced from Solar photovoltaic panel is transformed in to AC power using Solar Inverter / Power Conditioning Unit (PCU) / (String Inverter and it is provided to the load of the user. Excess power if any, is fed to the main Grid of 220kv / 66kv/ 33kV/ 11kV three phase lines or of 440/ 220Volt three/ single phase line depending on the capacity of the system installed at residence / schools / colleges / institution/ commercial establishment or residential complex. These Grid Connected Rooftop Solar Power Plant (SPV) systems produce electricity during the

day time which is consumed fully by powering captives loads and feed excess power to the grid as long as grid is available. In case, where solar power is not sufficient due to cloud cover etc. the captive loads are powered by drawing power from the main grid.

Where Grid Connected Rooftop Solar Power Plant installed?

Grid Connected Rooftop Solar Power Plant can be installed at the rooftops of residential and commercial complex housing societies, community's centers, Government organization private institution etc.

How much roof area is required to set up Grid Connected Rooftop Solar Power Plant?

About 10-11 Square Meter or 110 Square Foot area is required to set up 1 KWp Grid Connected Rooftop Solar Power Plant.

What are advantages of installing Grid Connected Rooftop Solar Power Plant?

- It may reduce your electricity bill up to 90%.
- By Installing Solar PV System you contribute greatly towards eco-friendly protection.
- User produces power according to his / her requirement.
- Surplus power if any can be fed in to the Grid.
- Reduction in monthly electric bill, as it is prepared as per net meter readings.
- MNRE, GOI provides 30% subsidy on installation of Grid Connected Rooftop Solar Power Plant in Institution, domestic sector and non-profit making NGOs / institutions.
- Fast Return of Investment after availing Solar Generation Incentive (SGI) / Generation Based Incentive (GBI).

What is Net Metering in context to Grid Connected Rooftop Solar Power Plant?

In net-metering, the excess solar energy if any is exported to the [grid](#). The same excess solar energy exported during day time is deducted from the energy imported from the main grid during night time. The user pays for the net-energy imported from the grid.

MNRE Solar Subsidy for installing Grid Connected Rooftop Solar Power Plants?

Yes, Central Financial Assistance (CFA) of 30 % of the bench mark cost or Rupees Twenty Thousand whichever is less is provided for 1 KWp up to 500 KWp Grid Connected Solar Power Plants to Residential Consumers (irrespective of the electricity connection) for installing Grid Connected Rooftop Solar Power Plants.

MNRE Solar Subsidy for institutional (Hospitals, Schools etc.) / Social Sector

Yes, Central Financial Assistance (CFA) of 30 % of the bench mark cost or Rupees Twenty Thousand whichever is less is provided for 1 KWp up to 500 KWp Grid Connected Solar Power Plants to institutional (Hospitals ,Schools etc) / Social Sector (irrespective of the electricity connection) for installing Grid Connected Rooftop Solar PV Power Plants.

Requirements for installing Grid Connected Rooftop Solar Power Plants?

- About 10-11 Square Meter or 110 Square Foot area is required to set up 1 KWp Grid Connected Rooftop Solar Power Plant.
- The User shall have Three Phase/ Single Phase electric supply service connection.
- Paid Electricity Bill
- User must be AADHAAR Card holder
- User must be PAN Card holder
- User must have a bank account
- User must have a valid email address and mobile number for communication.
- Any proof of Photo ID / Residence proof.
- Grid Connected Rooftop Solar Power Plants is installed with mandatory safety precautions / features as per the norms set by MNRE.
- Necessary Installation of Bi-directional meter for export and import of energy.
- The standard equipment including solar panels, solar mounting structure, solar DC wire, connectors, on-grid string inverter, array junction box, distribution junction box, and surge protection device, earthing and lightning arresters as per the norms of [MNRE](#) shall only be installed.

What is CAPEX RESCO model for installation of Grid Connected Rooftop Solar Power Plants?

In the CAPEX business model, installation of Grid Connected Rooftop Solar Power Plant is installed, owned and maintained by the user by investing upfront cost. On the other hand in RESCO Business model, the expenditure and maintenance of the plant is born by the RESCO 3rd party company.

Which business model is best for installation of Grid Connected Rooftop Solar Power Plant?

CAPEX model is always better for consumers that have adequate funds for installation. Consumers may avail benefit of net metering and solar subsidy .

From where I can install the Grid Connected Rooftop Solar Power Plant?

Any solar firm / company whose AOA / MOA contains nature of business as "to conduct or carry out solar energy activities as per their registration documents" are empowered to install Grid Connected Rooftop Solar Power Plant in Haryana. Firms /venders empanelled with [IPGCL](#) only can install Grid Connected Rooftop Solar Power Plant in Delhi.

What is the process of availing 30 % Central Financial Assistance (CFA) from MNRE?

You may directly apply for solar subsidy online through HAREDA's portal in Haryana or may like to take help / assistance of any solar vendor who are proficient to carry out the business of installation of Grid Connected Rooftop Solar Power Plant. Whereas in Delhi, the empanelled vendors may be approached for availing upfront subsidy for installation of Grid Connected Rooftop Solar Power Plants

What is [Solar](#) Generation Incentive (SGI) / Generation Based Incentive (GBI)?

SGI / GBI is an incentive linked with Generation of Solar Power from the Grid Connected Rooftop Solar

Power Plants is being provided by State Government of Haryana and Delhi respectively.

What is the annual energy generated from a 1 kWp Grid Connected Rooftop Solar Power Plant?

A 1 KW Grid Connected Rooftop Solar Power Plant is considered to generate electric units ranging from 1200 to 1500 units per annum as per sunlight conditions.

Consider selecting and approaching thoroughly professional and skilled team of DayRise Solar Enerdy Pvt Ltd for assessing and analyzing you electrical load for installation of [Solar Energy Solar Panel Power Plant System](#) at your home, office, mall, school or industry.

Contact DayRise Solar for Installation of Grid Connected Rooftop Solar Power Plants

[Contact DayRise Solar team](#) every time you need to know the way to get good offers while you plan to install Solar Energy Solar Panel Power Plant System or buy solar panels in Sonipat.

Avail Solar Subsidy in India for Grid Connected Rooftop Solar Power Plant


Also to [get help and full Procedure](#) to Avail [Solar Subsidy in India](#) for Grid Connected Rooftop Solar Power Plant, it's possible you'll like to contact extremely skilled and expert group of DayRise Solar by way of its Website's contact Page at DAYRISESOLAR.COM or by email alternately for any question associated to Solar Energy, Solar Subsidy, Solar power, solar [products](#), design, installation and commissioning of On-Grid / Off-Grid Rooftop / Ground Mounted Solar Power Plants throughout Haryana and Delhi NCR.

Help and Assistance for uploading of documents for Grid Connected Rooftop solar Power Plants

Qualified skilled team of DayRise Solar might help you in processing of subsidy utility, bi-directional meter utility and processing / uploading of all related documents to Subsidy Regulation Authority / DISCOM Utility.

Grid Connected Rooftop Solar power Plant - 11-06-2018

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URL:

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