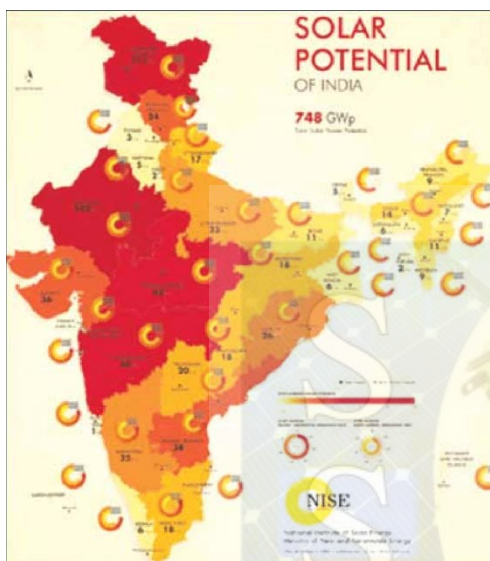


# Frequently Asked Questions

## ✓ What generation can be expected from a solar on grid system?

India's total expected peak capacity for solar generation is estimated to be 749 GW.



In general, a 5 unit average generation per day, per kW for the year can be safely assumed for Madhya Pradesh as depicted in red on the map.

## ✓ How much space is required for installation of plant?

A 1 kW rooftop system generally requires 10 sq. metres of shadow-free area. Actual sizing, however, depends on local factors of solar radiation and weather conditions, efficiency of solar module, shape of the roof etc. The mounting structure can be designed for optimum utilization of available space.

## ✓ What kind of Maintenance is required?

Time to time cleaning of solar panels must be done to prevent loss of productivity, rest of the equipment require normal maintenance just like any other electrical equipment you own.

## ✓ What is generation during cloudy/rainy/winter?

It works on illumination, during winters generation is more efficient. In rainy or cloudy weather 30 % -50 % output can be expected.

## Does it work during power outage, electricity breakdown or power failure?

No. As per Government guidelines, a solar generator must be isolated in case of any kind of power failure to avoid casualties.

## ✓ Can I install a rooftop plant at one location & utilize the power at a different location?

It can be done under following conditions:

- a. If the sub-meters are installed in the same premises.
- b. If the connection voltage level of the solar plant is above 11 kV. (approximately a solar plant of 250 kW)
- c. If it is a generation plant at open access level (above 33 kV) like 750 MW Reva Ultra Mega Solar plant.

## ✓ What are the benefit and returns on solar on-grid systems.

- a. Benchmark cost of Roof top Solar system: Rs. 55,000/- per kW
- b. Central financial assistance: Rs. 18,000/- per kW
- c. Net cost to customer (CAPEX Mode): Rs. 42,000/- per kW
- d. Generally , a 1 kW system generates about 1200- 1500 units per year
- e. Savings per annum Rs. 6000 to Rs. 7500 per year (condidering average tariff of Rs. 5 per unit)
- f Payback period: Rs. 5 - 7 years\*

(\*Payback period may further reduce in case there is any change in higher tariff slabs of electricity bill of the consumer due to net reduction in monthly electricity units consumed from Grid or if electricity tariff increases)

## ✓ How to avail the subsidy on solar rooftop systems?

After installation of rooftop plant the vendor (in this case Shaktisteller Energy Solutions) shall inform the State Nodal Agency for inspection of the plant along with grid connectivity/net metering application form. Concerned State Nodal Agency after due inspection and satisfactory performance will disburse the applicable CFA to the beneficiary.

## ✓ Is there any change in subsidy /incentives recently?

The phase II of the programme has been approved by CCEA wherein central financial assistance has been restricted to domestic sector only upto maximum capacity of 10 kwp.

The brief of new subsidy programme is as follows:

1-3 kW domestic rooftop: upto 40 % of the benchmark cost  
Above 3 kW to 10 kW: upto 20 % of the benchmark cost  
For Group Housing Society/RWA upto 500 kW system: upto 20 % of the benchmark cost

For other sectors e.g. social/institutional/govt./commercial industrial etc. no CFA will be provided

MNRE does not sanction any project or subsidy directly to the beneficiaries. The sanctions would be issued on the basis of online project proposal submitted by implementing agency.

