

60 KWp Roof top Solar Power plant

The Government of Tamil Nadu is taking all possible steps to promote Solar energy Generation in the state.

The Honourable Minister for Electricity, Prohibition & Excise had announced in the assembly the setting up of a 60 KWp Solar Power Project on the Roof top of the TANGEDCO Head Quarters high rise building, Chennai which would serve as a showcase / demonstration project.

Accordingly TANGEDCO has installed a 60 KWp Solar Power Project at the Roof top of the TANGEDCO Head Quarters high rise building, Chennai. The project would approximately generate and inject 1,00,000 units a year into the grid. The plant has been built with a subsidy of 30% from Ministry of New & Renewable Energy (MNRE), Government of India at a total cost of Rs.55,80,000/- and utilizes shadow free area of about 440 sq.m. on the Roof top of the high rise building. The project has been built adhering to the specificational norms of Ministry of New and Renewable Energy MNRE and the CEA regulation of 19% of capacity utilization factor.

The plant has been installed in the shadow free area of 440 sq. mtrs on the terrace of the TANGEDCO Head Quarters High rise building, and it would meet partial load of the building during working days and feed the surplus power available to the grid during Sundays and holidays.

The plant is made up of 219 modules, each module containing 72 Solar cells. The modules are connected to inverters of 15 KW rating, four such inverters making up the 60 KW power rating.

Roof top solar energy projects are of distributed energy generation type and generate power at the load centres, thus reducing line loss and improving voltage at the consumer end. In addition they also have several well known advantages that characterise clean and green power.

The average solar incidence of 5.5 – 6 kWh/m²/day, makes Tamil Nadu one of the highest solar insolation states in India.

With the above advantages it is expected that the Roof top project set up by TANGEDCO would encourage setting up of Roof top solar projects in other Government and private buildings taking advantage of the Pro Solar Policies and incentives of the Government.