

Two days training Programme on “Functioning and Maintenance of Solar Radiation Resource Assessment (SRRA) Station officers” of Eastern Region states, jointly organised by Centre for Energy Engineering, CUJ and Centre for Wind Energy Technology (CWET) of Ministry of New and Renewable Energy, New Delhi, on July 1-2, 2014.

Solar Radiation Resource Assessment (SRRA) Station-CEE, CUJ

Ministry of New and Renewable Energy (MNRE) has initiated a major project on Solar Radiation Resource Assessment (SRRA) station across the nation to assess and quantify the solar radiation availability along with weather parameters with a view to develop Solar Atlas. Centre for Wind Energy Technology (C-WET), Chennai is implementing the project by installing a network of 51 Solar Radiation Resource Assessment (SRRA) station in the first phase in different States using high quality, high resolution equipment/instruments. One of such SRRA station was established top of Administrative building in our Permanent campus under Centre for Energy Engineering.



Each SRRA station consists of two towers of 1.5 m and 6 m tall each. The 1.5 m tall tower houses a Solar Tracker equipped with Pyranometer, Pyranometer with Shaded Ring and Pyrhemliometer to measure solar parameters, such as, global, diffused and direct radiation. The 6 m tall tower houses instruments measuring rainfall, ambient temperature, atmospheric pressure, relative humidity, wind speed and direction. Each SRRA station is totally powered by 160 Watt SPV Panels and consists of 13 equipments/instruments and records 37 parameters inclusive of both measured and derived. The data from each SRRA station averaged to 10 minutes will be transmitted to a Central Receiving Station established at C-WET, Chennai through GPRS mode. The implementation of the project has started from February 2011 and all stations have already been installed, completed and commissioned.