

Industrial Visit- Yelesandra Solar Power plant 3Mw, Kolar

A one-day Industrial Visit to Yelesandra Solar Power plant 3Mw, Kolar, was organized by the Department of Electrical and Electronics Engineering, on 19th June 2024, for the 6th semester students. 30 of our students visited the organization, accompanied by faculty members Dr. Elenchezhiyan and Ms. Renukamba J N.



Industrial visit to Yelesandra Solar Power plant 3Mw, Kolar. 6th semester during the industrial visit organized by EEE department on 19-06-2024.

This plant has setup on 15 acres of land, the plant is generating 15,000 units of power a day and is expected to generate about 5 million units a year at a plant load factor of 20 per cent.

The plant is automatic and can be monitored from anywhere with the help of a computer as it is SCADA operated.

All students visited to each section of power plant like Solar panel, Invertor unit, Transformer unit and SCADA and grid connection. Now they can understand the concept of Solar energy, working of photovoltaic cell, working of Solar panel, conversion of DC to AC by using Invertor unit, step up of voltage by transformer unit and distribution of energy by grid connection. They can estimate the land, size and cost required for set up of solar power plant for domestic or commercial use. They are aware with the central state benefits available for set up of solar power plant.



Converter unit explanation



Charge Controller Explanation



Solar Power Plant

Outcome of the event:

- 1) Students understood the solar panel distribution, working of junction box(array junction box)
- 2) Students understood the way of series connection of solar cells and working of Inverter (AIC Inverter)
- 3) The visit helped students in attaining the program outcome and also for their main projects.