GO Solar- Portable Solar Charger

In today's world where we are always struggling to power our cities, we need to look at alternate energy sources. Solar panels are not only a renewable resource, it is also very clean, efficient and easy to use.
So, here is a chance to become day-to-day solar user. ENERGEIA'17 brings you a workshop on Solar Mobile Charger which are very common today and is a product available directly for the public for commercial and personal use but at a very high cost.

Date	**6th April, 2017**
Time	**9.00 AM to 6.00 PM**
Duration	**Two days with 8 hours per day of Hands on and lecture sessions**
Venue	**Department of Energy and Environment (CEESAT)**

Workshop will include:

- Introduction to Solar Energy, Clean Energy and Solar Panels
- Introduction to Microcontrollers and the Arduino Platform
- Interfacing of Solar Panels with charging circuitry
- Design of circuit and its application
- Implementing Solar Charger and Solar Tracker

Pre requisites:

Engineering Students from Energy, Electrical, Electronics, Mechanical & Civil Department & Other Interested Students can attend the workshop in teams of 2. **(2 students per team)**.

Each team should have **a laptop** with the following configurations: **Min 2 GB Ram, OS windows 7 and above with enough space on hard disk.**

Each team will be given a ***take away kit*** and the designed charger can be taken away by the team.

The kit given to each team will comprise of **Arduino, Motor, Motor Driver, Solar Panel, charging circuitry and Connecting wires.**

Registration fee:

Rs.2200/- per team (Rs.1100/- per head)

Only limited registrations are available.

What do the students get?

- In this workshop, we teach students to interface Solar Panels with a charging circuitry to charge you phone. We also cover aspects where we track the sunlight and position this Solar panel.
- With the help of supporting circuitry, we make a mobile phone charging system that can solve all your low battery problems at the go anytime during the day!
- Along with that, we create a solar tracker with the help of LDRs, Arduino, motors and a lot more.

All the students attending the workshop will receive a Certificate from NIT, Tiruchirappalli.

NOTE: Food and Snacks will be provided for the students attending the workshop.