



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-22 / EVEN SEMESTER

Date: 05.05.2022

INTERNAL SEMINAR REPORT

Objective:

- To impart knowledge to students on recent developments in the field of Electrical and Electronics Engineering
- To educate the students on technological advancements which facilitate them to utilize the concepts in developing projects

Title : "GREEN ENERGY"

Target: Second and Third year EEE students

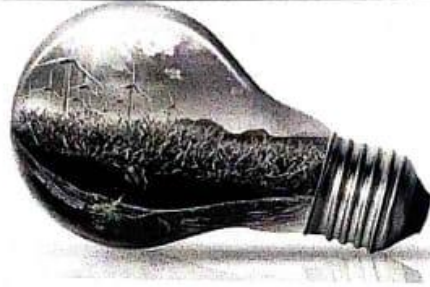
Internal seminar for second, third and final year students of Electrical and Electronics Engineering department was conducted on 05.05.2022 from 3.25 P.M to 4.15 P.M in smart classroom. Mrs.P.Thirumagal, AP/EEE lectured on the topic "GREEN ENERGY".

During the session the following points were discussed:

- Green energy is that which comes from natural sources, such as the sun. Clean energy are those types which do not release pollutants into the air, and renewable energy comes from sources that are constantly being replenished, such as hydropower, wind power or solar energy.
- Green energy provides reliable power supplies and fuel diversification, which enhance energy security, lower risk of fuel spills, and reduce the need for imported fuels. Renewable energy also helps conserve the nation's natural resources.

1. LED Lighting:

- A simple example of green tech is LED lighting. By avoiding incandescent lights, there's a substantial gain on efficiency. LED light bulbs use less energy than traditional incandescent. Smart LEDs are a simple smart home upgrade that even apartment dwellers may adopt.



2. Solar Panels:

- While solar panels aren't exactly new, lower prices coupled with monetary incentives such as tax credits in many areas have made solar panels a solid solution. Even a single solar water heater drastically reduces energy use. Since solar energy is so efficient, there's a pretty quick turnaround for recouping any losses.

3. Wind Energy:

- Wind energy is associated with a wind farm. But small-scale windmills offer a nifty method of adopting such green tech in a residential setting. The amount of energy you can offset with a windmill varies quite, as does the cost of adoption and installation. Offshore wind turbines provide steady, reliable clean energy.

4. Electric Vehicles:

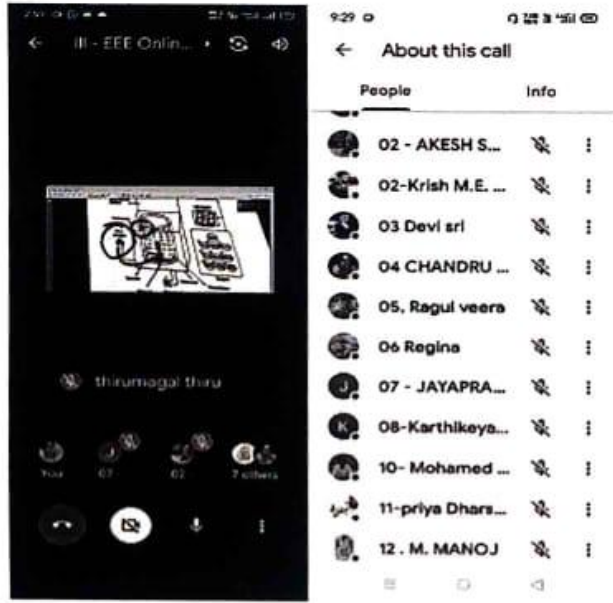
- Advances in EV technology find wireless charging capabilities as the electric auto industry continues to evolve. Granted, charging an electric vehicle off of a coal-powered grid isn't as sustainable as it could be, but better gas mileage and zero emissions still makes it a better alternative than a petroleum-powered car. EV may be the future of the automotive industry.

5. Programmable Thermostats

- A programmable thermostat is a low-cost green technology solution. Virtually any home or apartment now boasts one. A smart thermostat does add the convenience of being able to monitor and change temperature remotely.

6. Vertical Farming:

- Vertical farming is an eco friendly technology as simple as its name. This is the concept of growing produce in stacked vertical layers rather than horizontally. The benefits of vertical farming are increased sustainability. Some vertical farming configurations don't even require soil, and reduce water use exponentially.



P. Me
5/5/2022
Faculty In Charge

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05/05/2022
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