CHATRAPATHI SIVAJI TRI SATA JAYANTHI (CSTS) GOVT. KALASALA



Enter to Learn - Leave to Serve Jangareddigudem, Eluru Dist





REPORT ON ALTERNATE ENERGY CONSERVATION

- 1. Number of LED Bulbs: 79
- 2. Number of Fans: 82
- 3. Capacity of Solar System: 2 KV

CSTSaGovof Kalagatipal Jangareddigudem - 534447

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures

USE OF LED BULBS

- Using LED bulbs in college promotes energy conservation due to their high efficiency, long lifespan, and minimal heat production. This eco-friendly choice saves money, enhances lighting quality, and aligns with sustainability goals,
- making it a practical and environmentally responsible lighting solutin.

SOLAR ENERGY

• Analysis of Energy consumption and costs the college is well equipped with electricity supply. Some department possess computers, printers, fans, plug points, tube lights, bulbs etc. As part of "Green Campus" initiation, we shifted from conventional energy to renewable energy, to reduce electricity bill and increase the usage of renewable energy, installed a solar grid with capacity of 1KW on the roof of the academic buildings which is useful for our campus and giving remaining generated power to the electricity board

SOLAR ENERGY



Energy Conservation Measures:

Based on the analysis of the power consumption data, certain steps have been recommended for improving the energy efficiency of the campus. Complete cost analysis of the implementation of recommended measures has been performed wherever necessary. Also, a number of general measures for energy efficiency have been listed.

- Electronic appliances are not in usage should always be either unplugged or disconnected from the power sockets (i.e., Switch off the loudspeakers, printers, and Xerox machines if you are not using them)
- Better to avoid keeping the appliances on 'STANDBY MODE'.
- Remove faulty lighting.
- Display messages about how to utilize the room's electrical appliances, such as lights, fans, laptops, and projectors, must be placed in all classrooms and labs. Conserve energy. Post stickers with the message "Save electricity. Save the environment" all over the campus. So that everyone involved is incentivized to conserve energy.
- Even when there is enough light near the window opening, the majority of the time and all the tube lights in a classroom are kept on. The light row near the window may be left off in these circumstances.
- All computers on campus should have power-saving features that, for example, switch off monitors and internal hard drives after 10 or 30 minutes.
- ★ The comfort/Default air conditioning temperature is to be set between 24°C to 26°C.
- Lights in the toilet area may be kept OFF during the daytime.
- Need to replace FTL/Ordinary bulb with smart LED Tube/LED Bulb/Solar Lamps.
- ✤ Need to replace ordinary CRT monitor by LED

LED BULBS IN CLASS ROOMS





LED BULBS IN LABS



