7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation:

Solar energy

Wheeling to the Grid

Sensor-based energy conservation

Use of LED bulbs/power-efficient equipment

The Government College of Engineering, Salem has taken initiatives not only contribute to cost savings but also align with global efforts to combat climate change and promote sustainable development.

The solar energy-based street lighting system, water heating system for hostel and solar power plant (9.9 kWP) is implemented.

Utilizing solar energy-based street lighting systems can significantly reduce electricity consumption and contribute to a safer environment on campus. Utilizing solar energy for water heating systems in hostels can lead to substantial energy savings and promote renewable energy utilization. Implementing solar energy-based water tank overflow indicator designed by UG students in the electrical department shows the contribution towards resource management and conservation. Furthermore, using solar inverters to power lights and fans in the Office of the Head of the Department of Electrical Engineering reflects the practical application of renewable energy solutions within the institution itself.

LED bulbs are used at most of the locations across the campus to promote energy conservation. In the campus, air conditioning units with a five-star energy rating are utilized.

Slogans and wall posters indicating such as “switching off lights when not in use” or before leaving the classroom have been strategically placed to promote energy conservation awareness among students and faculty across the campus.

Figure 1: Solar energy-based street lighting system

Figure 2: Solar energy-based street lighting system

Figure 3: Solar energy-based street lighting system

Figure 4: Power efficient LED sign board

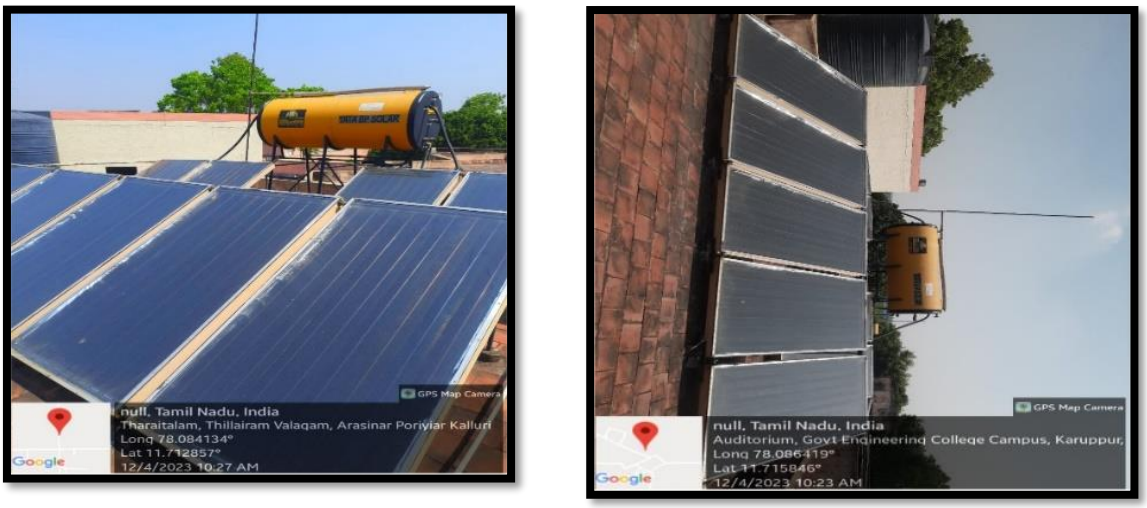

Figure 5: Solar energy-based water heater.

Figure 6: Solar Inventor

Sensor-based energy conservation:

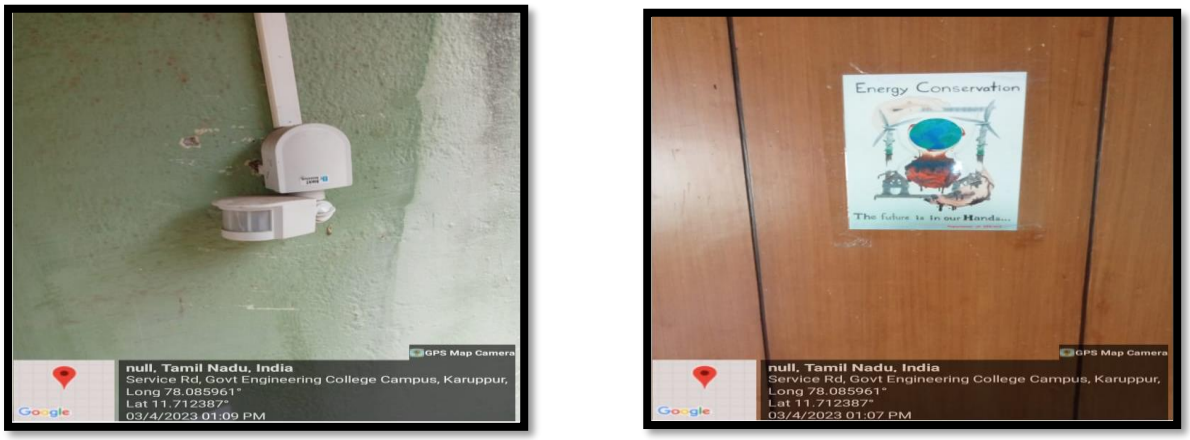

Figure 7: Sensor based energy conservation.

Slogans and Wall Posters:

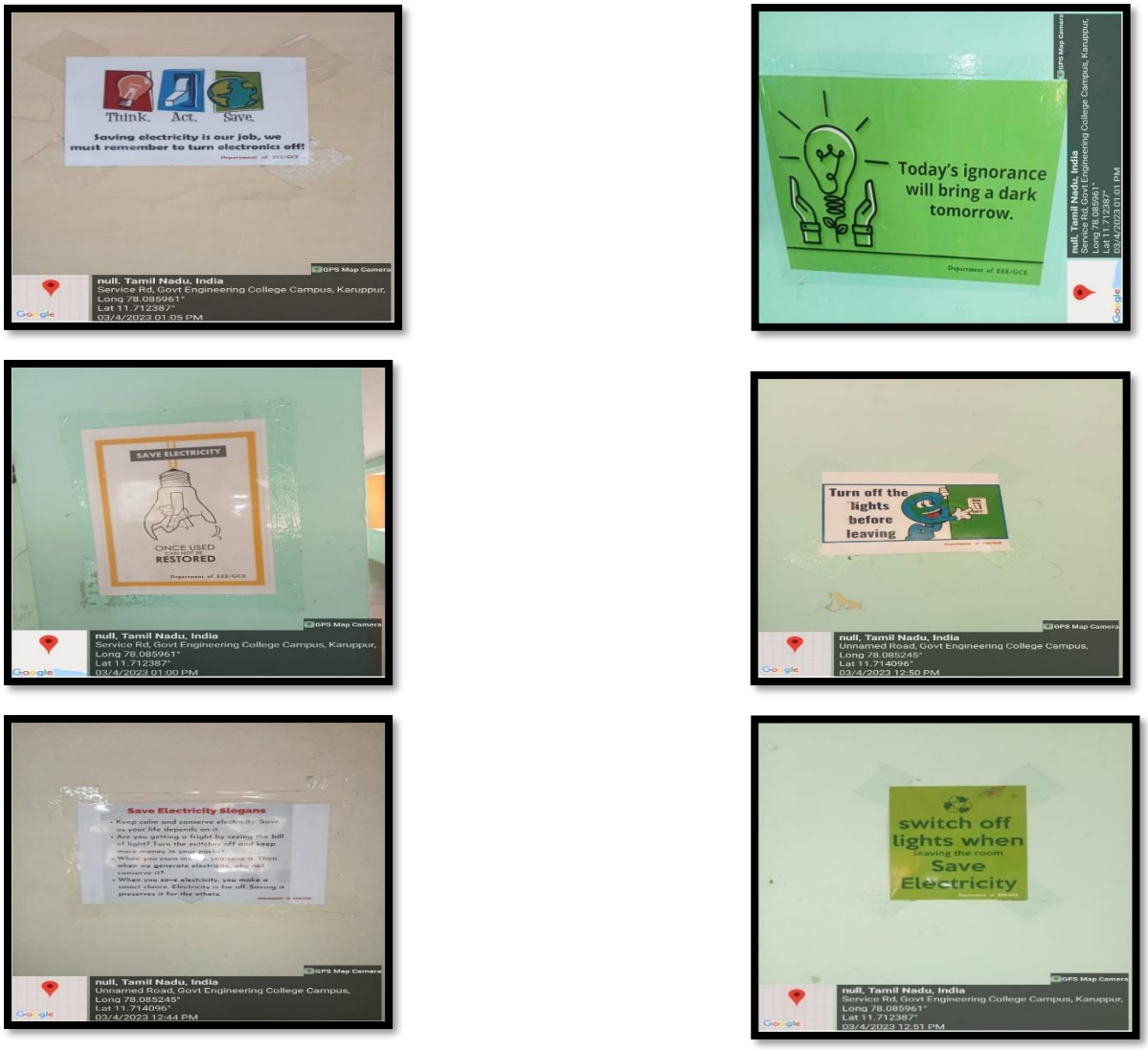

Figure 8: Slogans and Wall posters

Water Tank Overflow Controller:

Figure 9: Water Tank Overflow Controller

Use of LED bulbs/power-efficient equipment

Figure 10: Use of LED bulbs/power-efficient equipment