A.P.C. MAHALAXMI COLLEGE FOR WOMEN

THOOTHUKUDI - 2

CRITERION 7

SSR CYCLE IV

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1. Institutional Values and Social Responsibilities

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

Contents

Alternate Source of Energy

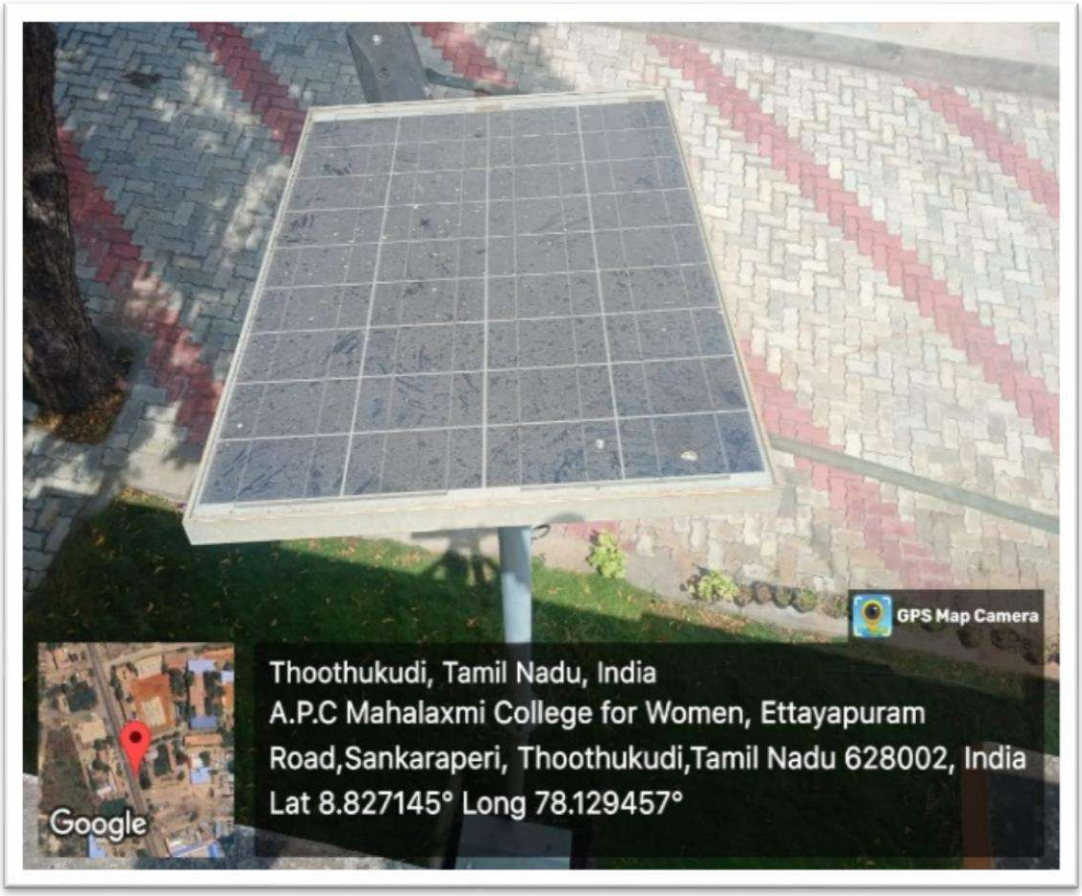
Solar Power Units

Our college has installed three solar power units on campus, each equipped with solar panels, inverters, and energy storage systems. These units collectively generate a substantial amount of clean and renewable energy. The power generated by these solar units is utilized for various purposes within the campus, including powering lighting systems, electronic equipment, and other electrical appliances. This initiative significantly reduces the college's dependence on conventional electricity sources, contributing to energy cost savings and environmental conservation.

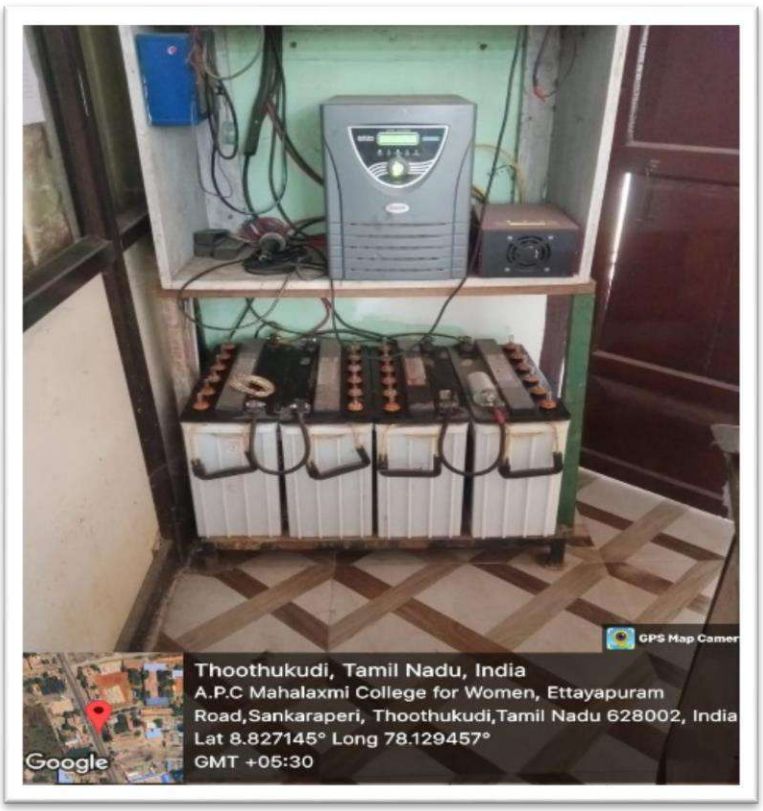
The surplus power generated by the solar units is exported to the Tamil Nadu Electricity Board (TNEB). This surplus power contributes to the local power grid, further promoting the use of renewable energy in the broader community.

Solar unit at A.P.C.V Mahalaxmi Ammal block

Solar units at Prof. A. Srinivasa Ragavan Memorial block



Solar unit near computer block



Distributing unit /Inverter

Energy Conservation Measures

Use of LCD Monitors

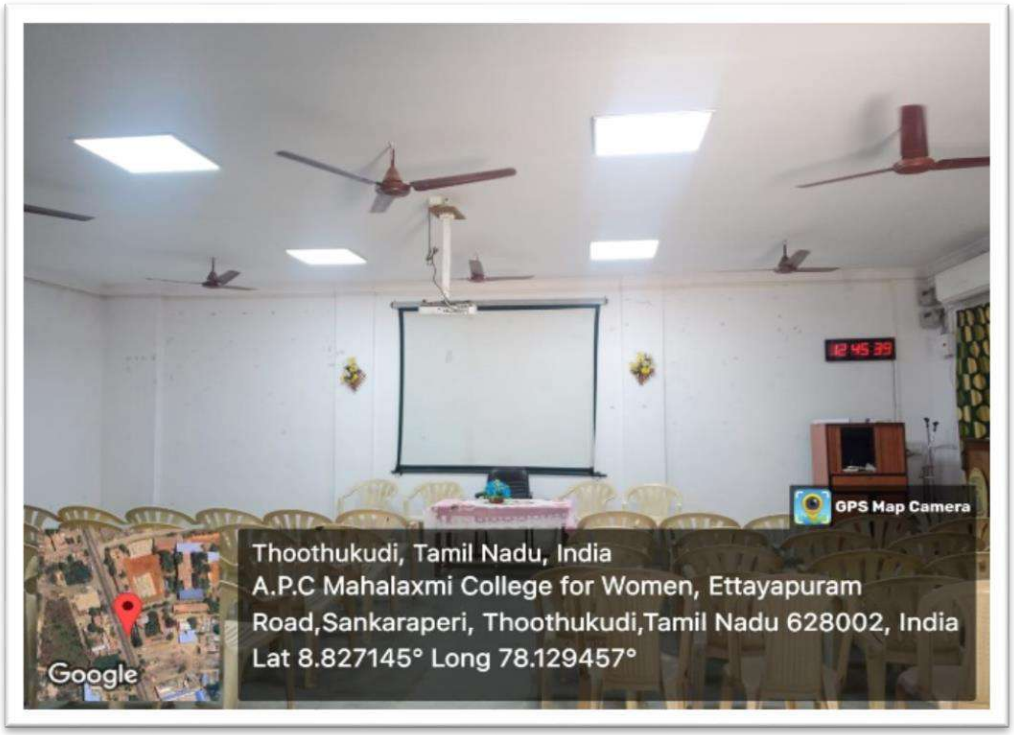
The college has successfully replaced all Cathode Ray Tube (CRT) monitors with energy-efficient LCD monitors. LCD monitors consume significantly less power than their CRT counterparts, leading to reduced electricity usage. This switch not only contributes to energy conservation but also improves the visual quality of displays across the campus.

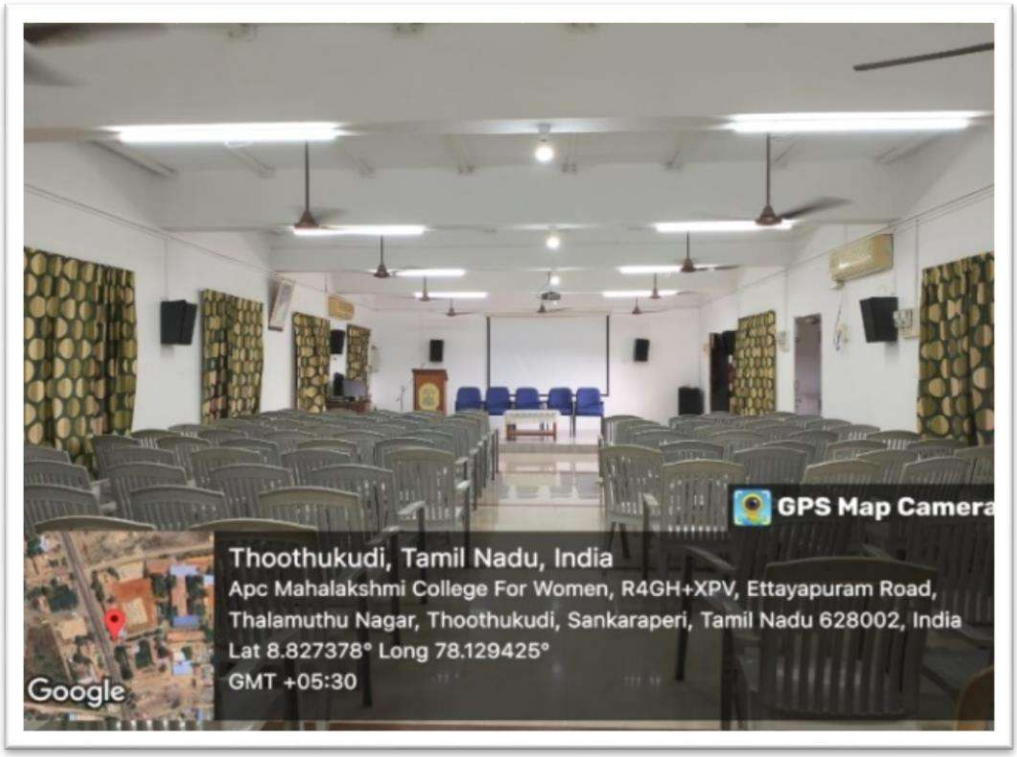
LCD monitors in computer lab

Use of LED Bulbs

To optimize energy consumption in lighting systems, our college has undertaken the ongoing process of replacing traditional tube lights with energy-efficient LED bulbs. LED bulbs consume less energy, have a longer lifespan, and emit a lower amount of heat, thereby reducing the overall demand for the electrical system and contributing to a more sustainable campus environment.

LED bulbs in PG computer lab





LED bulbs in seminar and conference hall

Use of Split AC

The window air conditioners are replaced with split AC to reduce energy consumption.

Window ACs are replaced with Split ACs

Ventilated Classrooms

To minimize the need for artificial lighting and cooling, the college has implemented design changes in classrooms. These changes include improved ventilation systems, allowing for more natural light and reduced dependence on electric lights. By optimizing the use of daylight and natural airflow, the college aims to create a more comfortable and energy-efficient learning environment.

Ventilated classroom reducing the usage of fans and lights

Workshops on Energy Conservation

Workshop on Innovations in Energy Conservation for Sustainable Future

Invitation

Photo

Honoring the chief guest

Chief guest addressing the student

Report

A.P.C. MAHALAXMI COLLEGE FOR WOMEN
Thoothukudi – 628 002, Tamil Nadu.

Workshop on Innovations in Energy Conservation for Sustainable Future

Topic	Innovations in Energy Conservation for Sustainable Future
Date	06.03.2023
Time	10.00 A.M. to 3.00 P.M
Objective	To promote awareness, education, and the adoption of innovative practices and technologies that contribute to energy conservation
Chief Guest	Dr. J. Judes, Assistant Professor, Department of Science and Humanities, V.O.C Collee of Engineering, Thoothukudi.
Outcome	Participants gained awareness of the importance of energy conservation and its direct impact on mitigating climate change and ensuring a sustainable future.
Venue	New Seminar Hall
Beneficiaries	65 students

K. Subbulakshmi
Principal [i/c]

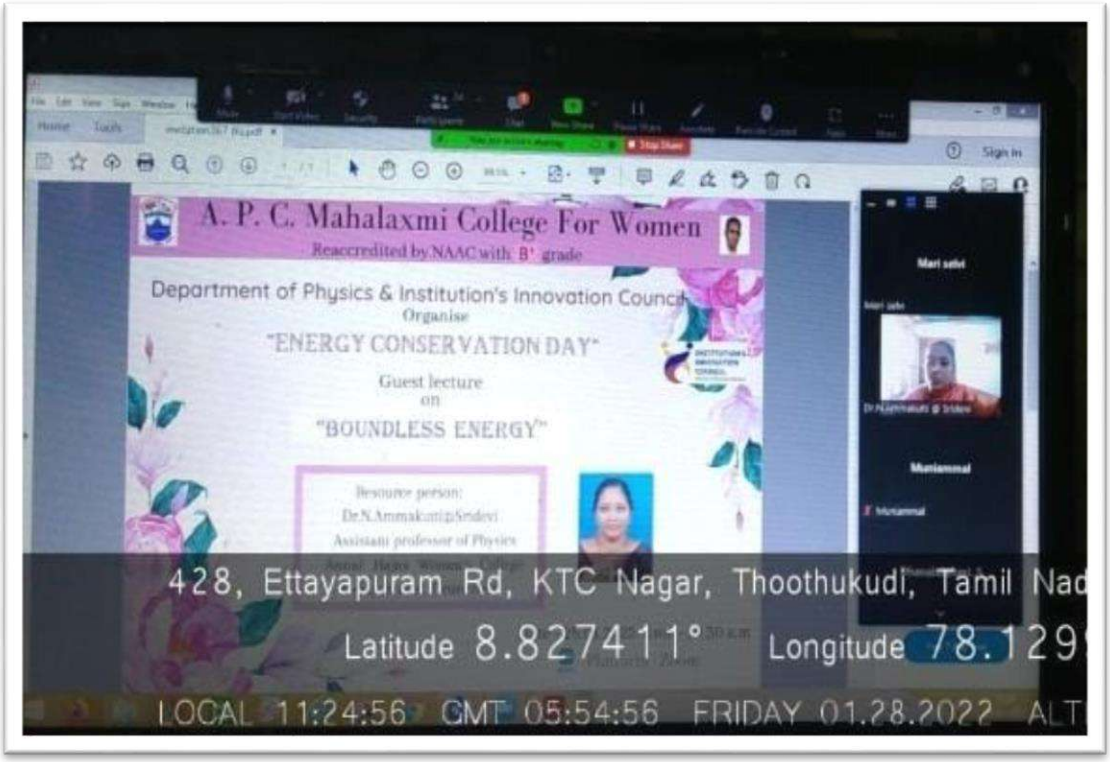
Principal
A.P.C. Mahalaxmi College for Women
Thoothukudi

Phone: 0461 - 2345655 Website: www.a[illegible]

Guest Lecture on Boundless Energy

Invitation

Photos



Chief Guest addressing the students

Report

A.P.C. MAHALAXMI COLLEGE FOR WOMEN

Thoothukudi – 628 002, Tamil Nadu.

Guest Lecture on Boundless Energy

Topic	Boundless Energy
Date	28.01.2022
Time	10.30 A.M.
Objective	To inspire and educate about the boundless potential of sustainable energy sources, fostering a mindset shift towards their adoption and conservation for a better future
Chief Guest	Ammakuttu @ SriDevi, Assistant Professor of Physics, Annai Hajirara Women's College, Melapalayam, Tirunelveli
Outcome	Students were informed about the culture of sustainability and promoted the adoption of renewable energy technologies for a resilient and eco-friendly future
Platform	Googlemeet
Beneficiaries	54 students

K. Subbulakshmi
Principal [i/c]

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Thoothukudi

Phone: 0461 - 2345655 Website: www.apcmcollege.ac.in