



# **SREEKRISHNAPURAM** **V.T. BHATTATHIRIPAD** **COLLEGE**

Aided and Affiliated to University of Calicut, NAAC Accredited with B+ Grade  
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## **CRITERION - VII** **INSTITUTIONAL VALUES AND BEST PRACTICES**

### **7.1 Institutional Values and Social Responsibilities**



[www.vtb.ac.in](http://www.vtb.ac.in)



Mannampatta P.O., Palakkad – 678 633

# SREEKRISHNAPURAM V.T. BHATTATHIRIPAD COLLEGE



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## 7.1.2 Institutional Facilities and Initiatives

### Alternative Source of Energy and Energy Conservation

## Report of Alternate Energy and energy conservation Measures

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## Introduction

Renewable energy is energy derived from natural resources that replenish themselves in less than a human lifetime without depleting the planet's resources. The energy policy of Sreekrishnapuram V T Bhattathiripad College promotes renewable energy resources, thereby avoiding depletion of fossil fuels and making earth more sustainable. All the stakeholders of Sreekrishnapuram V T Bhattathiripad College including Management, Principal, Teaching and Non-teaching Staff, and students shall adhere to the energy policy.

The institution has clear policy and guidelines for energy conservation and use. It is as follows:

- a. All individuals (teaching, non-teaching and students) of the institution should appreciate and value the use any form of energy ie., electricity and water in abundance.
- b. They are entitled / obliged to save and prevent the misuse or wastage of any form of energy.
- c. Necessary actions have to be taken by the Head of the institution to reduce the energy consumption based on the report submitted by the energy monitoring committee.
- d. Signboards on energy conservation need to be displayed at the focal points of the institution.
- e. Use of LED lamps must be promoted in the institution.
- f. Maximum use of daylight has to be promoted in classrooms and office rooms.
- g. Unwanted usage of power is discouraged in Institute.
- h. Priority needs to be given to energy efficient equipment during purchase.
- i. Sensor based energy saving is promoted in the campus.
- j. Switching to solar energy has to be given prime importance.



## **Major Energy Conservation Initiatives at Sreekrishnapuram V T Bhattathiripad College**

- a. Solar Power Plant of capacity 5kW is installed and it will meet most of the power demand by the institute.
- b. LED bulbs were used for newly constructed buildings and most of the incandescent and fluorescent tube lights are replaced with LED bulbs.
- c. Majority of the class rooms, computer laboratory, administrative blocks, library, seminar hall and staff rooms were provided with LED lighting system which are supposed to be the energy efficient. Now, the power consumption through lighting system about 20 percentage is met by LED bulbs

### **Energy Conservation Initiatives**



### **Star-Rated AC Initiative**

College promotes energy conservation by installing star-rated air conditioners, reducing energy consumption and carbon footprint. This initiative supports a sustainable and comfortable learning environment.



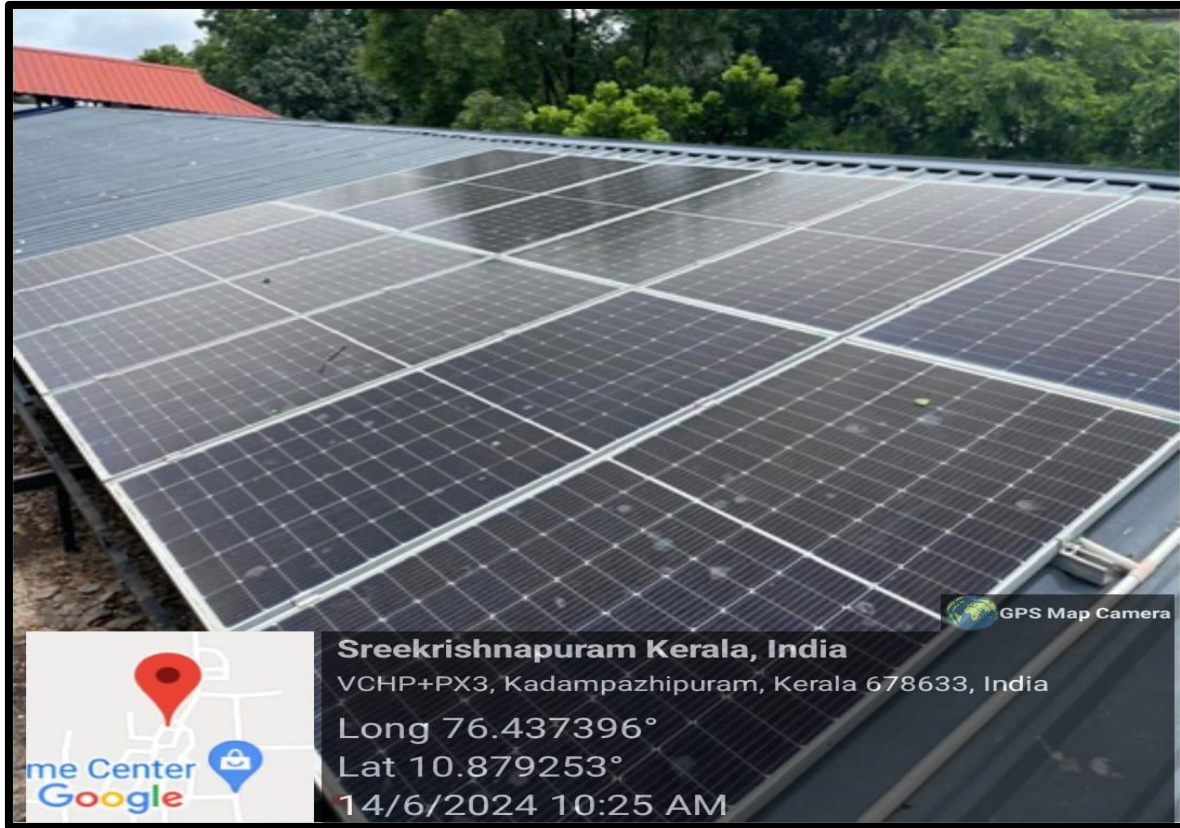
*Star rated AC*

## Solar Panels

Solar Panels are installed on the roof top of the Main Block to tap in the solar energy. The energy produced through the system is utilized to meet the energy requirements of the computer lab and classrooms as well as the college office. The energy thus produced help reduce the electricity consumption from KSEB Limited.







*Solar Panels*

### Wheeling to the Grid

Our college has installed an on grid solar power generating system of 9720 W which is connected to the consumer number 1156203008290. The excess electricity generated from the solar panels is wheeling to KSEB grid which ensures maximum energy usage from the solar panel.





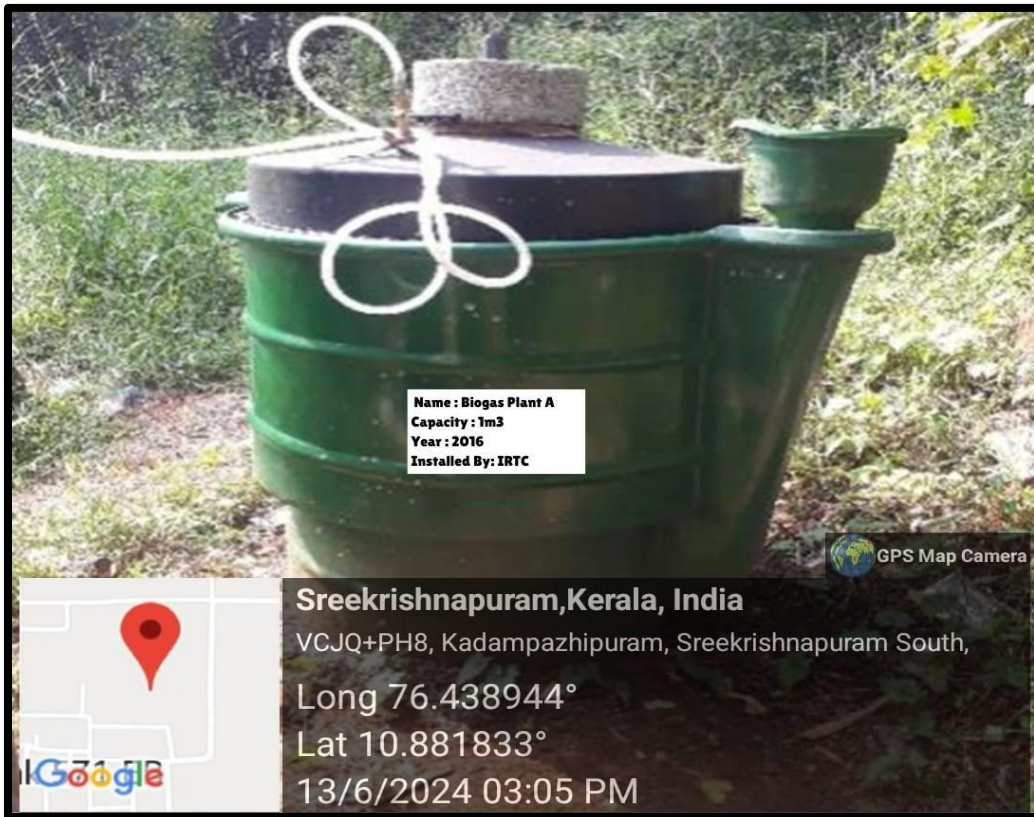
### *Wheeling to the Grid*

## Biogas Plant

The college established a biogas plant with a capacity of 1m<sup>3</sup>, installed by Integrated Rural Technology Centre (IRTC), Mundur, Palakkad in 2016, to generate biological gas for cooking purposes in the college canteen. This eco-friendly initiative provides a sustainable alternative energy source. Additionally, the biogas plant effectively utilizes food waste and other organic materials, ensuring proper waste management and minimizing waste disposal issues.







*Biogas Plant*

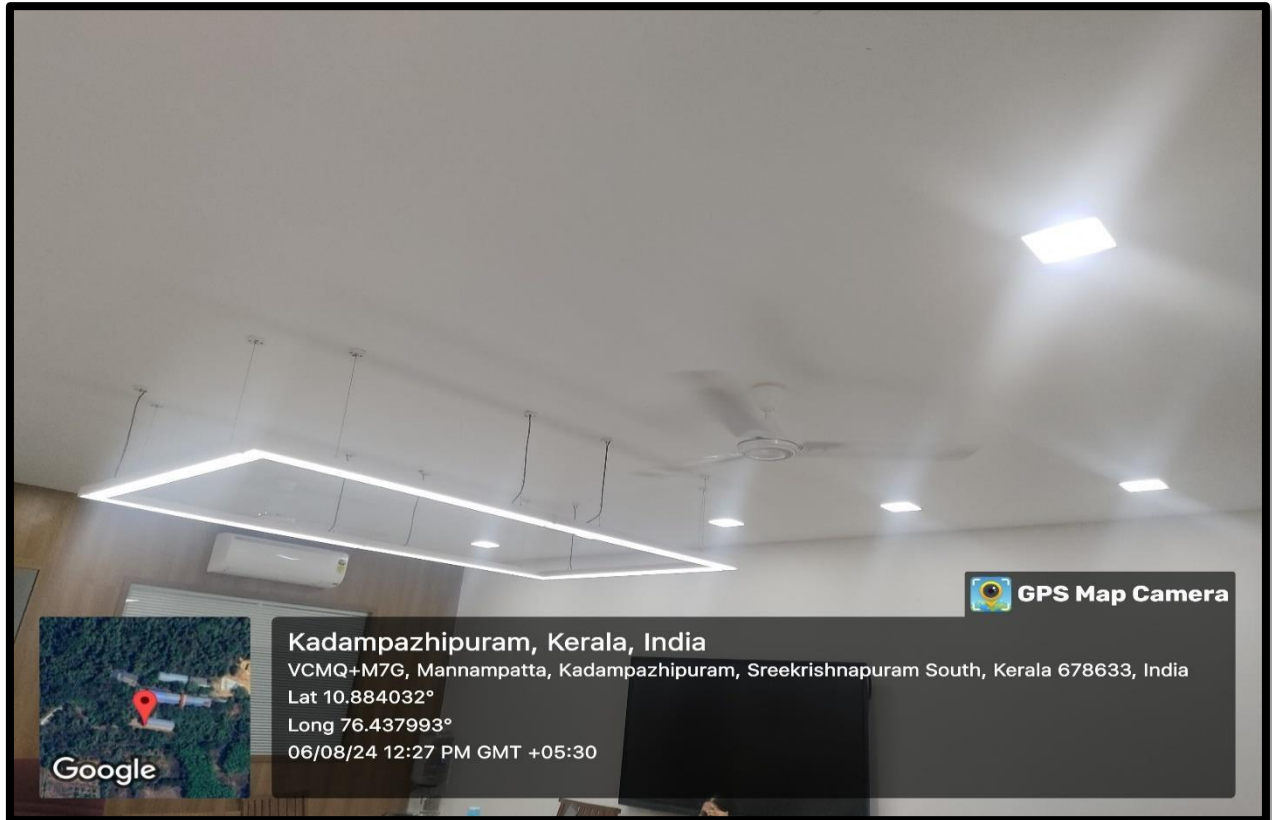


*Burning the Biogas Stove*



## LED Bulbs

College has replaced traditional lighting with LED bulbs, significantly reducing energy consumption and promoting sustainable practices.



*LED Bulbs in Board Room*





**LED Bulbs - Computer lab**



**LED Bulbs - Library**



*Sulthi*

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