

# CMS COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)  
CMS Nagar, Eranapuram Post, Namakkal Dt., Pin : 637 003. Tamilnadu, India.  
Contact No: 98433 46065, 84899 10651.  
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## Policy document on environment and energy usage Certificate from the auditing agency

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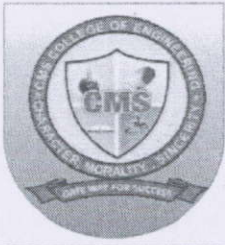
## GREEN CAMPUS POLICY

CMS College of Engineering promotes a robust green campus policy aimed at fostering environmental sustainability and consciousness among its students and faculty. Through various initiatives and practices, the college endeavors to minimize its carbon footprint and conserve natural resources. The policy encompasses strategies such as waste reduction and recycling programs, energy-efficient infrastructure, and promoting the use of renewable energy sources. Additionally, CMS College of Engineering encourages research and innovation in green technologies and practices, integrating environmental awareness into its academic curriculum and extracurricular activities. By cultivating a culture of environmental responsibility, the college aims to inspire future engineers and leaders who are committed to creating a sustainable future.



*K. Mahadevan*

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## Agenda for Environmentally Responsible Campus

1. Green Landscapes
2. Water Management
3. Waste Management
4. Energy Conservation and Renewable Sources
5. Elimination of Single-Use Plastics
6. Electronic waste management

### 1. Green Landscapes

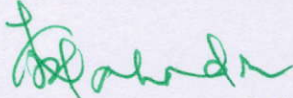
At CMS College of Engineering, the commitment to green landscaping is integral to creating a sustainable and aesthetically pleasing environment. The campus incorporates native and drought-tolerant plant species that require minimal water, reducing irrigation needs and conserving resources. Sustainable landscaping practices include mulching, which retains soil moisture and reduces weed growth, thereby minimizing the need for chemical herbicides.

Furthermore, the college emphasizes the use of organic fertilizers and environmentally friendly pest management techniques to maintain healthy landscapes without harming the ecosystem. Educational signage and initiatives educate students and visitors about the importance of sustainable landscaping practices, fostering awareness and appreciation for biodiversity and ecological balance. Through these efforts, CMS College of Engineering not only enhances the campus environment but also demonstrates its commitment to environmental and sustainability.

### 2. Water Resource Management

Water resource management at CMS College of Engineering is a key priority aimed at promoting sustainability and responsible use of resources across campus. The college employs various strategies to ensure efficient water usage and conservation. This includes the implementation of water-efficient fixtures and appliances in buildings, such as low-flow toilets and faucets, to minimize water consumption. Additionally, advanced irrigation



  
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systems are utilized in landscaping to optimize water distribution and reduce wastage. Rainwater harvesting systems are also in place to capture and utilize rainwater for non-potable purposes, further reducing reliance on municipal water sources. Regular monitoring and maintenance of water systems help identify and address leaks promptly, ensuring optimal efficiency. Through education and awareness initiatives, students and staff are encouraged to adopt water-saving behaviors and contribute to the college's commitment to sustainable water management. By integrating these practices into everyday operations, CMS College of Engineering demonstrates its dedication to environmental stewardship and resource conservation.

### 3. Waste Management

CMS College of Engineering has implemented a robust Waste Management System on our campus to promote sustainability and environmental consciousness. The system includes segregated waste bins for different types of waste, such as recyclable, organic, and non-recyclable waste, making it easy for students and staff to dispose of their waste properly. Regular awareness programs and campaigns are conducted to educate the campus community about the importance of waste segregation and recycling. The college also collaborates with local recycling agencies to ensure that recyclable waste is processed efficiently. Through these efforts, CMS College of Engineering is fostering a culture of responsible waste management and environmental stewardship on campus.

### 4. Energy Conservation and Renewable Sources

Energy conservation and the use of renewable sources are integral components of our campus's sustainability initiatives. Through various measures such as energy-efficient lighting, smart building technologies, and renewable energy installations like solar panels, we strive to reduce our carbon footprint and promote environmental stewardship. Additionally, educational programs and awareness campaigns are conducted to engage the campus community in adopting energy-saving practices. By prioritizing energy conservation and renewable sources, we not only reduce our operational costs but also contribute to a cleaner and more sustainable future for all.



  
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## 5. Elimination of Single-Use Plastics

The Elimination of Single-Use Plastics initiative at CMS College of Engineering signifies a significant step towards environmental sustainability on campus. By eliminating single-use plastics such as bags, straws, and utensils, the college is taking a proactive approach to reduce plastic waste and its harmful impact on the environment. This initiative aligns with global efforts to address plastic pollution and encourages the campus community to adopt more sustainable practices. Through this initiative, CMS College of Engineering is leading by example and demonstrating its commitment to creating a cleaner and greener campus environment.

## 6. Electronic waste management

CMS College of Engineering has established an effective E-Waste Management System on our campus to address the growing challenge of electronic waste. Special e-waste collection bins are strategically placed around the campus, making it convenient for students and staff to dispose of their old electronics responsibly. Regular awareness campaigns and workshops are conducted to educate the campus community about the importance of recycling e-waste. The collected e-waste is then sent to certified recyclers to ensure that it is safely and responsibly processed. Through these efforts, CMS College of Engineering is working towards a more sustainable and environmentally friendly campus.



  
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## RENEWABLE ENERGY SOURCES AND ENERGY EFFICIENCY POLICY

The Renewable Energy Sources and Energy Efficiency Policy at our campus are designed to promote the use of renewable energy and enhance energy efficiency across all facilities. This policy aims to reduce the campus's carbon footprint by integrating solar, wind, and other renewable energy sources into our energy mix. Additionally, it encourages the adoption of energy-saving practices and technologies, such as LED lighting, energy-efficient HVAC systems, and smart energy management systems. By implementing this policy, our campus not only supports environmental sustainability but also strives to create a model of energy efficiency for educational institutions nationwide. Through continuous monitoring, evaluation, and improvement of our energy practices, we are committed to fostering a sustainable and eco-friendly learning environment.


### **Agenda for Renewable Energy Sources and Energy Efficiency Policy**

- ❖ Solar Electric Plant
- ❖ Electricity Savings Initiative
- ❖ Energy Efficiency Audit
- ❖ Energy-saving LED bulb
- ❖ Diesel Generator

### **Solar Electric Plant**

The solar electric plant at our campus is a shining example of sustainable energy utilization. This innovative facility harnesses the power of the sun to generate clean, renewable electricity, reducing our reliance on traditional fossil fuels. The plant's photovoltaic panels are strategically positioned to capture maximum sunlight, converting it into electricity that powers various campus buildings and facilities. Not only does this solar electric plant help reduce our carbon footprint, but it also serves as a practical demonstration of renewable energy technology for students and visitors. It stands as a beacon of our



  
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commitment to environmental stewardship and serves as a testament to the possibilities of a greener, more sustainable future.

## Electricity Savings Initiative

The Electricity Savings Initiative at our campus focuses on reducing electricity usage through various measures. This includes using energy-efficient lighting, optimizing building energy systems, and raising awareness about energy conservation. By implementing these strategies, we aim to save energy, reduce costs, and promote sustainability on campus.

## Energy Efficiency Audit

The Energy Efficiency Audit at our campus is a thorough examination of our energy usage and systems to identify areas where we can improve efficiency and reduce wastage. This audit involves analyzing energy bills, inspecting equipment and facilities, and evaluating energy management practices. By conducting this audit, we can pinpoint specific areas for improvement and develop a targeted plan to enhance energy efficiency. The goal is to not only save energy and reduce costs but also to minimize our environmental impact and contribute to a more sustainable campus.

## Energy-saving LED bulb

The use of energy-saving LED bulbs in our campus is a key part of our sustainability efforts. These bulbs are designed to be highly energy-efficient, using up to 80% less energy than traditional incandescent bulbs. By replacing old bulbs with LEDs, we are able to reduce electricity consumption and lower our carbon footprint. Additionally, LED bulbs last much longer than incandescent bulbs, reducing the frequency of replacements and further decreasing waste. Overall, the switch to LED bulbs is a simple yet effective way for us to save energy and promote environmental sustainability in our campus community.



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## Diesel Generator

The diesel generator at our campus serves as a reliable backup power source, ensuring uninterrupted electricity supply during outages. This generator plays a crucial role in maintaining essential operations such as lighting, heating, and powering critical equipment. While its primary purpose is to provide backup power, the generator is also used during peak demand periods to reduce strain on the main power grid. Despite its utility, efforts are made to minimize its use through energy-saving measures and reliance on renewable energy sources. Overall, the diesel generator is an important asset that helps ensure the smooth functioning of our campus operations.



  
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RAM KALAM CENTRE FOR ENERGY CONSULTANCY & TRAINING  
No.8, VPK Garden, Mylapatti, Coimbatore – 641 062  
GSTIN: 33AAZFR8890A1ZN



## ENERGY AUDIT CERTIFICATE

RAM KALAM/CMSC/EA/June/2023/01

(Audited and Accounted from June 2022 to May 2023)

This is to certify that, we have conducted a detailed **ENERGY AUDIT** in **CMS COLLEGE OF ENGINEERING, CMS Nagar, Eranapuram (Post), Namakkal – 637 003, Tamil Nadu, India** on **08 June 2023**. The college is now practicing various Energy Conservation Measures, implemented Energy Efficient lighting system, Best Utilization of LPG, Adopting Best operating Practices (BoP) and utilizing all kind of energy in a Judicious manner.

Audit conducted and verified by

*S.R. Sivarasu*

**Dr. S.R. SIVARASU**

BEE Certified Energy Auditor (EA-27299)

Lead Auditor – ISO 14001: EMS; IGBC AP, GRIHA CP

CII Certified Professional in SWM

ISO-14064: Implementor & Auditor - Carbon Footprint Management

*Dr. K. Manadevan*

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RAM KALAM/CMSC/EA/June/2023/01

(Audited and Accounted from June 2022 to May 2023)

### AUDIT SUMMARY

Date of Audit	08 JUNE 2023
Present Annual Energy Consumption	1,70,973 kWh + 8,640 kg LPG + 100 Tons Wood
Present Energy Cost	Rs. 26.5 Lakhs
Proposed % of Energy Savings	22.4 % Electricity + 5.0 % LPG + 10.0 % Wood
Annual Energy Savings	38,309 kWh + 216.0 kg LPG + 10.0 Tons Wood
Annual Financial Savings	Rs. 4.9 Lakhs
Initial Investment Required	Rs. 4.4 Lakhs
Simple Payback Period	Nearly 0.9 Years (10.8 Months)

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## **ENVIRONMENT AUDIT CERTIFICATE**

**RAM KALAM/CMSCCE/ENA/June/2023/02**

**(Audited and Accounted from June 2022 to May 2023)**

**This is to certify that, we have conducted a detailed ENVIRONMENT AUDIT in CMS COLLEGE OF ENGINEERING, CMS Nagar, Eranapuram (Post), Namakkal – 637 003, Tamil Nadu, India on 08 June 2023. The college has upholding excellent Balance of CO2 emission & reduction, providing quality water, preserving great environment system and also educating the same to all the students.**

**Audit conducted and verified by**

*S.R. Sivarasu*

**Dr. S.R. SIVARASU**

**BEE Certified Energy Auditor (EA-27299)**

**Lead Auditor – ISO 14001: EMS; IGBC AP, GRIHA CP**

**CII Certified Professional in SWM**

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## ENVIRONMENT AUDIT CERTIFICATE

RAM KALAM/CMSCE/ENA/June/2023/02

(Audited and Accounted from June 2022 to May 2023)

### AUDIT SUMMARY

S. No.	Annual Energy Consumption & CO <sub>2</sub> Emission			Annual CO <sub>2</sub> Neutralization		
	Description	Energy Quantity	Emission (Tons)	Description	Energy Quantity	Neutralized (Tons)
1.	Electricity	1,70,937 kWh	140.2	Electricity (DG)	2,704 kWh	2.2
2.	Diesel	45,752 Litres	120.8			
3.	LPG	8,640 kg	25.9	Mature Tree	38 Nos	0.8
4.	Wood	100 Tons	190.0			
<b>Total Emission</b>			<b>476.9</b>	<b>Total-Neutralized</b>		<b>3.0</b>
<b>Balance CO<sub>2</sub> to be Neutralized = 473.8 Tons/Annum; Per capita Consumption = 1.22 Tons/Person</b>						

(\* Total number of Students, teaching faculty and Staff member for the year 2022-23 is 338)



*[Signature]*

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