



## Nallamuthu Gounder Mahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90, Palghat Road, Pollachi - 642001, Coimbatore, Tamil Nadu, India.

95<sup>th</sup> Rank in NIRF - 2023 among Colleges in India.



- 7.1.2 The institution has facilities for alternate sources of energy and energy conservation measures.
1. Solar energy
  2. Bio gas plant
  3. Wheeling to the grid
  4. Sensor based energy conservation
  5. Use of LED bulbs/power efficient equipment

### Awareness Programs on Energy Conservation

S. No	Event	Date	Conducted by	Beneficiaries
1.	Need for Energy Conservation and Frugality in Energy Use	15.12.2023	Department of Commerce with Computer Applications	86
2.	National Energy Conservation Day	14.12.2023	Department of Chemistry	42
3.	International Conference on recent advancements in Computational Nanoscience and Energy Storage Technology - 2023	13.07.2023 & 14.07.2023	Department of Physics	56
4.	National Energy Conservation Day	14.12.2022	Institution Innovation Council	60



*[Signature]*  
**Dr. R. MUTHUKUMARAN,**  
 M.A., M.Phil., B.Ed., Ph.D.,  
**PRINCIPAL**  
 N.G.M. College, Pollachi - 642 001  
 Coimbatore District



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## 1. Need for Energy Conservation and Frugality in Energy Use - Department of Commerce with Computer Applications - 15.12.2023



### NALLAMUTHU GOUNDER MAHALINGAM COLLEGE (AUTONOMOUS), POLLACHI

An ISO 9001:2015 Certified Institution, Re-Accredited by NAAC  
Affiliated to Bharathiar University, Coimbatore

#### UG DEPARTMENT OF COMMERCE CA

*Organizes an awareness activity on*

### NEED FOR ENERGY CONSERVATION AND FRUGALITY IN ENERGY USE

#### Resource Person

**Mr.C.Jebaraj,**  
BEE Certified Energy Auditor  
ALCHEME Green Energy Company, Madurai

#### Convenor

**Dr.P.Archanaa,** Assistant Professor and Head

#### Coordinators

<b>Dr.T.Vijaya Chithra</b>	<b>Dr.M.Nirmala</b>
<b>Dr.P.Gomathi Devi</b>	<b>Dr.T.Mohana Sundari</b>
<b>Dr.M.Deepa</b>	<b>Ms.P.Divyabharathi</b>
<b>Ms.M.Shanmugapriya</b>	<b>Ms.M.Gayathri</b>
<b>Dr.R.Ramya</b>	<b>Ms.R.Subha Sangeetha</b>
<b>Ms.D.Saranya</b>	<b>Mr.S.Rajagopalan</b>

Assistant Professors



15/12/2023



02:30 PM



NGM College Campus

IQAC/2023-24/DEC/166



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Head of the Department  
UG Department of Commerce (CA)  
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Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi

UG Department of Commerce (CA)

Awareness Activity Report

Title of the Event: Need for Energy Conservation and Frugality in Energy Use

Event Date: 15.12.2023

Event ID: HJAC/2023-24/Dec/166

The UG Department of Commerce (CA) organised an awareness programme on Need for Energy Conservation and Frugality in Energy Use on 15.12.2023. Mr. C. Jebaraj, BEE Certified Energy Auditor, ALCHEM Green Energy Company, Madurai acted as resource person and has enlightened the importance of energy conservation and the economy in energy use. The resource person also highlighted that India's culture abounds with environment-friendly and low-resource use practices. Traditionally Indians follow frugal lifestyles which are in harmony with nature and the local conditions. These practices need to be encouraged for minimizing the adverse impact on the environment. The good green deeds are simple, practical steps that every person may perform in day-to-day life that can make a visible difference to the environment. We can practise the actions listed at the individual level, community level, and corporate level, for the overall protection of the environment. It attempts to make people at ground level, aware of the environmental issues in a simplified manner.

About 40 students of B.Com(CA) has participated in the event and got benefited out of it.

HOD

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Nallamuthu Gounder Mahalingam College (Autonomous), Pollachi

UG Department of Commerce (CA)

Awareness Activity Report

Title of the Event: Need for Energy Conservation and Frugality in Energy Use

Event Date: 15.12.2023

Event ID: IQAC/2023-24/Dec/166

Students Attendance

S.No.	Register Number	Name	Signature
1	22-CC-109	Rinase Fatima	[Signature]
2	22-CC-102	Malika Shevin	[Signature]
3	22-CC-88	Aravathi S	[Signature]
4	22-CC-89	Aravathi S	[Signature]
5	22-CC-91	Aravathi S	[Signature]
6	22-CC-92	Aravathi S	[Signature]
7	22-CC-93	Aravathi S	[Signature]
8	22-CC-101	Aravathi S	[Signature]
9	22-CC-108	Aravathi S	[Signature]
10	22-CC-111	Aravathi S	[Signature]
11	22-CC-17	Aravathi S	[Signature]
12	22-CC-79	Aravathi S	[Signature]
13	22-CC-142	Aravathi S	[Signature]
14	22-CC-22	Aravathi S	[Signature]
15	22-CC-15	Aravathi S	[Signature]
16	22-CC-09	Aravathi S	[Signature]
17	22-CC-19	Aravathi S	[Signature]
18	22-CC-33	Aravathi S	[Signature]
19	22-CC-30	Aravathi S	[Signature]
20	22-CC-87	Aravathi S	[Signature]
21	22-CC-06	Aravathi S	[Signature]
22	22-CC-07	Aravathi S	[Signature]
23	22-CC-23	Aravathi S	[Signature]
24	22-CC-12	Aravathi S	[Signature]
25	22-CC-10	Aravathi S	[Signature]
26	22-CC-25	Aravathi S	[Signature]
27	22-CC-114	Aravathi S	[Signature]
28	22-CC-87	Aravathi S	[Signature]
29	22-CC-157	Aravathi S	[Signature]
30	22-CC-90	Aravathi S	[Signature]
31	22-CC-150	Aravathi S	[Signature]
32	22-CC-172	Aravathi S	[Signature]
33	22-CC-164	Aravathi S	[Signature]

[Signature]

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34	22-CC-152	Deepika K.	D. J.
35	22-CC-158	Kavya Banerjee - M	Kanishk M.
36	22-CC-159	Kanika M.	Kanishk M.
37	22-CC-158	Shreya	D. J.
38	22-CC-155	Ilakia V.	Sudhakar V.
39	22-CC-157	Aradhya S.	A. A. S.
40	22-CC-173	Selva Rajase	Selva Rajase
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### 2. National Energy Conservation Day – Department of Chemistry – 14.12.2023

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**Pollachi - 642001**

**DEPARTMENT OF CHEMISTRY (AIDED)**  
IN ASSOCIATION WITH  
INSTITUTION'S INNOVATION COUNCIL (IIC)  
JOINTLY CELEBRATING  
NATIONAL ENERGY CONSERVATION DAY



**RESOURCE PERSON**

**Dr. A. Logamadevi,**  
Associate Professor & Head,  
Department of Botany,  
NGM College, Pollachi – 642001

**“SAVE ENERGY AND LIVE GREEN”**

**Date: 14.12.2023 Time: 10.00 AM To 12:00 NOON Venue: A-114**

<b>PRESIDENT</b> Dr.R.Muthukumaran PRINCIPAL	<b>CONVENOR</b> Dr.Indumathy Ramasamy HOD	<b>Organizing Committee</b> Dr. T. Gowrani Dr. N. Neelakandeswari Mr. K. Pradeep
<b>Dr.M.Amutha</b> IIC Convenor	<b>Dr.M.Selladurai</b> IIC Faculty Co-Ordinator	



*(Signature)*  
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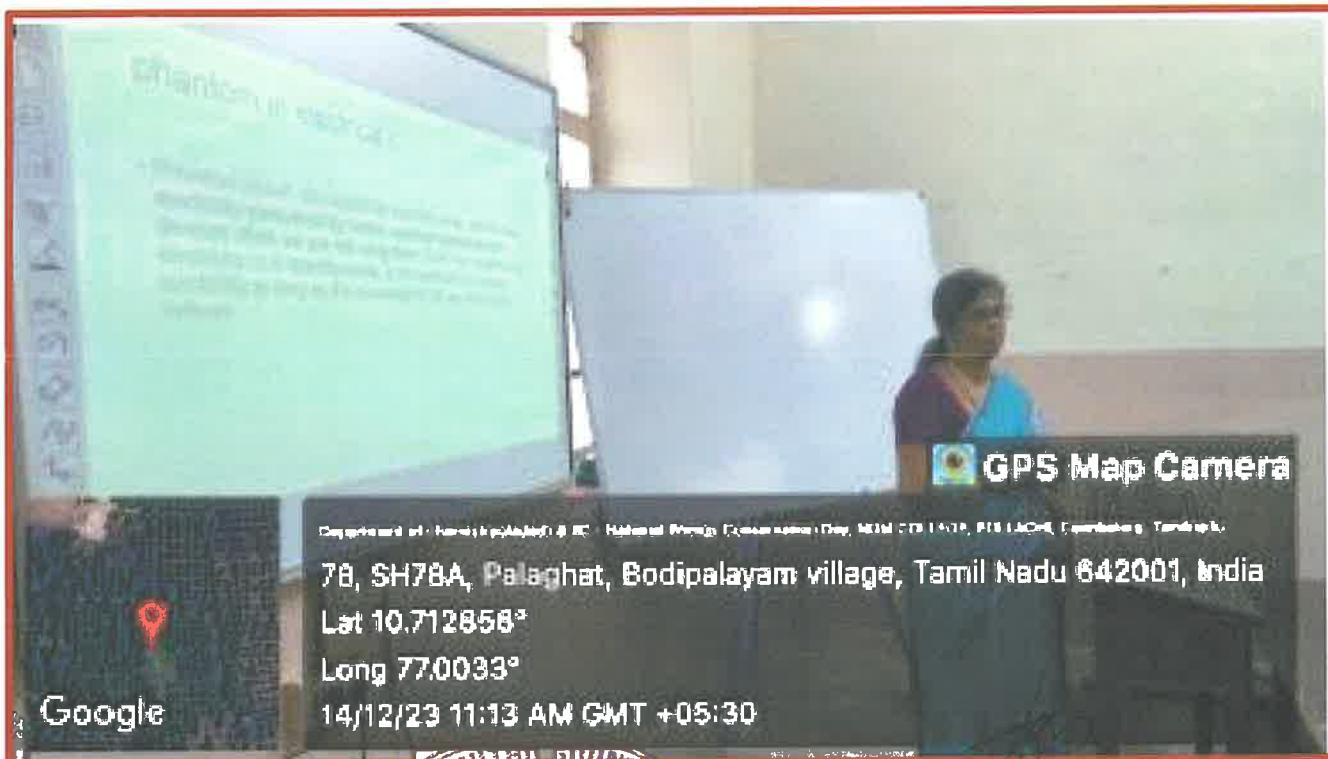
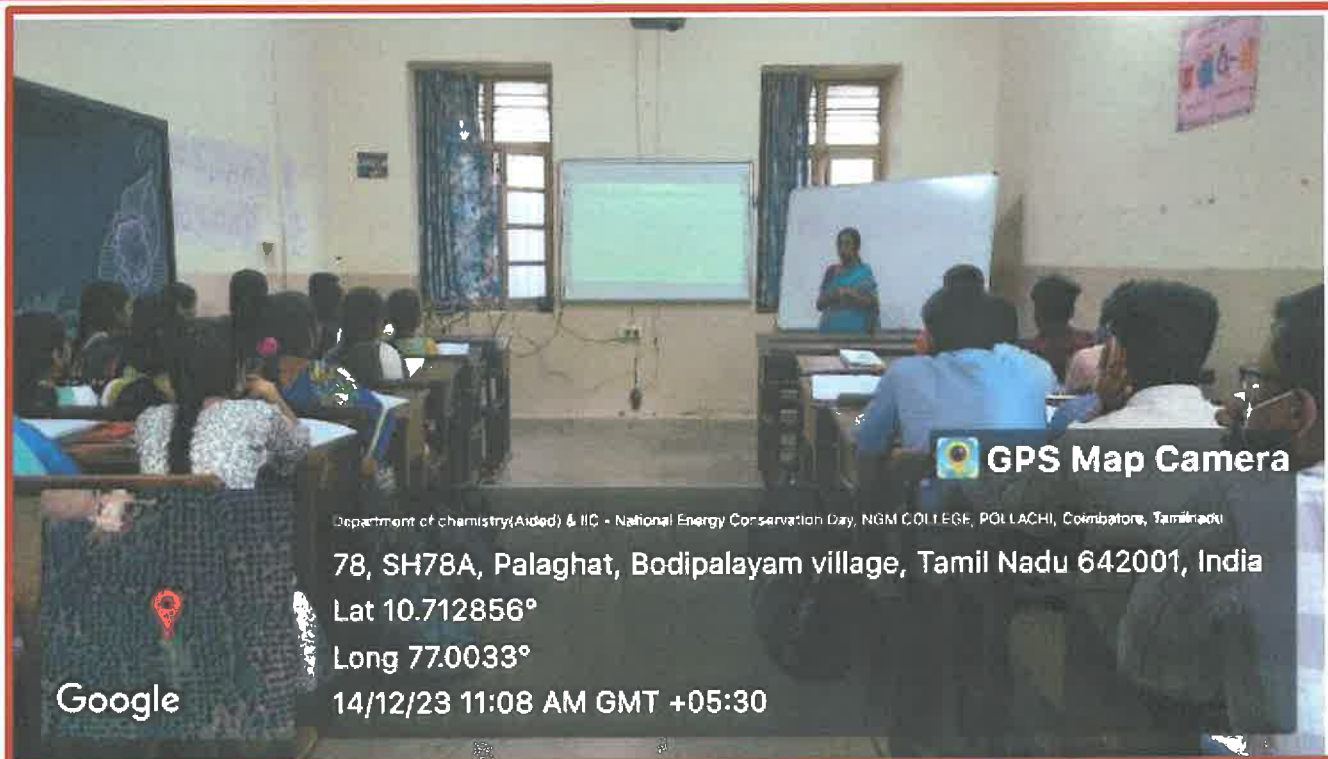


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### REPORT

Ref. No: IQAC/2023 - 2024 / DEC/162


The Institution's Innovation Council and Department of Chemistry (Aided), NGM College, jointly celebrated "National Energy Conservation Day" a motivation program "Save Energy and Live Green". Dr. Indumathy Ramasamy, Assistant Professor & Head, delivered the welcome address.

Chief Guest of the seminar, Dr. A. Logamadevi, Associate Professor & Head, Department of Botany, NGM College, Pollachi to address the importance of energy conservation. By using energy-efficient appliances, turning off lights and electronics when not in use, and properly insulating our homes, we can significantly reduce our energy consumption. Finally she insisted the three R's - Reduce, Reuse and Recycle - should guide our daily choices.

She conclude saving energy and living green is not just a responsibility and it is an opportunity for positive change. Each one of us has the ability to contribute to a healthier planet for current and future generations. By making conscious choices, adopting sustainable practices, and advocating for environmentally friendly policies, we can create a brighter and greener future.

About 5 faculty members and 42 students attended the session and revealed that this session was very useful and motivating in lighting the entrepreneur skills and life skills. Dr. M. Selladurai, IIC Faculty Co-ordinator, proposed a vote of thanks.



  
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## 3. International Conference on Recent Advancements in Computational Nanoscience and Energy Storage Technology - 2023



**EXECUTIVE ORGANIZING COMMITTEE**

**CHIEF PATRON**  
Dr. B.K. Krishnaraj Vanavaryar Thiru. M. Balasubramanian

**PATRON**  
Dr. R. Muthukumaran

**CONVENER**  
Dr. T.E. Manjulavalli

**ORGANIZING SECRETARIES**  
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Dr. M. Karthika Dr. A. Sureshkumar

**JOINT ORGANIZING SECRETARIES**  
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Dr. A.G. Kannan Dr. V. Saravanan  
Ms. M. Gayathri, M.Sc., M.Phil.

**INTERNATIONAL ADVISORY COMMITTEE**  
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Dr. Ravhi S. Kumar  
Dr. Senthilarasu Sundaram

**NATIONAL ADVISORY COMMITTEE**  
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Dr. N. Gopalakrishnan  
Dr. R. Ilangoan  
Dr. L. Senthilkumar  
Dr. P. Christopher Selvin  
Dr. A. Mahalingam  
Dr. V. Subramaniam  
Dr. Dimple Dutta

**INTERNATIONAL ADVISORY COMMITTEE**  
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Dr. Nagarajan Subramaniam  
Prof. Abdel Hadi Kassiba  
Prof. Sivaraj P

**INTERNATIONAL ADVISORY COMMITTEE**  
Prof. Velumani Subramaniam  
Dr. Abhilash K.P  
Dr. Sivaraj P



**INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN COMPUTATIONAL NANOSCIENCE AND ENERGY STORAGE TECHNOLOGY - 2023**

Sponsored by  
ISERB DST - SERB

Organized by  
**POST GRADUATE AND RESEARCH DEPARTMENT OF PHYSICS**

(ICCNЕСТ - 23)  
July 13 & 14, 2023

**NALLAMUTHU GOUNDER MAHALINGAM COLLEGE**  
(AUTONOMOUS) Affiliated to Bharathiar University  
Re-accredited by NAAC, An ISO 9001 : 2015 Certified Institution  
Pollachi - 642001, Tamil Nadu, India  
www.ngmc.org | iccnest23@gmail.com



**ABOUT THE INSTITUTION**

Nallamuthu Gounder Mahalingam College (NGMC), affiliated to Bharathiar University, Coimbatore was established in 1957 to fuel the knowledge economy of Pollachi by engaging itself in providing quality education to the youth. College has grown consistently over the years spreading its wings far and wide to offer variety of educational programs under one roof for over 60 years. Two great philanthropists Late Thiru S.P. Nallamuthu Gounder and Late Arundelvar Padmabhushan Dr. N. Mahalingam having an idealistic vision to impart holistic education to cater to the needs of higher education to those who aspire for excellence in knowledge and values started an organization called Pollachi Kavi Nilayam in a sprawling campus of 26 acres. Later it renamed as NGM College in 1957. The college has achieved greater academic distinctions with the introduction of autonomous system from the academic year 1987-88. The college has blossomed into a premier post-graduate and research institution offering 26 UG, 12 PG, 13 M.Phil and 10 Ph.D programs, apart from diploma and certificate courses. The college has been re-accredited by NAAC and is an ISO 9001:2015 certified institution. The total student strength is around 6000. NGM College celebrated its Diamond jubilee in 2017 and the college has been ranked within Top 100 in India under NIRF-2023. The College has grown into a temple of wisdom, seed bed of character, model of discipline, training ground of democracy and nursery of great hearts, strong minds, true faith and writing hands. Education in NGM College plays a pivotal role in enlightening the minds of the youth and enhancing the skills by harnessing all the available resources to empower the nation.

**ABOUT THE DEPARTMENT**

The ultimate goal of the department is to bring eminence and excellence in teaching learning process, ignite and train young minds by constantly pushing the boundaries, to instigate curiosity and assist towards the holistic development of the students. The department is equipped with dedicated and committed faculty who ensure that the students are able to exercise the maximum potential to achieve academic excellence and build productive career in their chosen field of interest. The staff members play an integral role in intensifying the learning environment by actively involving themselves in diverse fields of research such as Solar cells, Lithium ion batteries, Polymer electrolytes, Luminescent devices, Sensors, Molecular quantum mechanics, supercapacitors etc. and support the institutional mission by way of publications and projects.



**ABOUT CONFERENCE**

The conference aims to improve and continue communication among the researchers in Theoretical and Experimental Physics related fields. It is anticipated that this conference will provide an outstanding opportunity for participants to exchange ideas and promote discussions on recent advances in the field of Computational Nanoscience and Energy Storage Technology. The theme of the conference will be "state-of-the-art" performance of nano-materials for future technologies. The scientific deliberations at the conference will cover a wide range of topics in condensed matter physics in the form of invited talks, oral/industry papers, and panel discussions.

**CONFERENCE TOPICS**

The scope of the conference will cover (but is not limited to) the following areas:

- Solar Cells
- Batteries
- Polymer Electrolytes
- Functional Materials
- Nano Materials
- Thin Film Physics
- Plasma Physics
- Non-linear Dynamics
- Molecular Quantum Mechanics
- Supercapacitors
- Optoelectronics
- Luminescent Materials / Devices
- Pharmaceutical Materials
- Energy Materials
- Theoretical Physics
- Applied Physics
- Crystal Growth

**TECHNICAL CO-ORDINATORS**

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**REGISTRATION FEES**

Students	Rs. 300
Research Scholars	Rs. 500
Faculty Member	Rs. 750
Industry Person	Rs. 1000

**IMPORTANT DATES**

Last date for abstract submission	JUNE 28 <sup>th</sup> 2023
Notification of acceptance	JULY 03 <sup>rd</sup> 2023
Last date of submission of paper	JULY 07 <sup>th</sup> 2023
Last date for Registration	JULY 10 <sup>th</sup> 2023

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Criteria: **VII : Institutional Values and Best Practices**



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### 4. National Energy Conservation Day - Institution's Innovation Council - 14.12.2022



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**INSTITUTION'S INNOVATION COUNCIL  
Celebrates**

**Resource Person**  
C. JEBARAJ B.Tech., P.G.E.M  
Energy Auditor  
Alchemie Green Energy Company  
Coimbatore





**NATIONAL ENERGY  
CONSERVATION DAY**

**Coordinators**  
Dr. M. Amutha  
IIC Convener

Dr. A. Srividhya  
NAAC Criterion Manager


Dr. R. Muthukumar  
IIC President / Principal

Dr. R. Rakkimuthu,  
IIC Co-Convener

Dr. P. Archanaa  
NAAC Criterion Manager

Date: 14.12.2022, 3.00 PM  
Online Platform: ZOOM



  
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**Initiative/Commitment by Government**

- Petrol- 20% Ethanol
- Biodiesel
- Bharath stage- VI fuel
- Promotion of E Vehicle
- Usage of LNG for vehicle
- Green Hydrogen generation
- Power Generation from Agricultural Biomass
- 500 GW non-fossil power generation capacity by 2030
- 50 % Energy requirements from Renewable Energy by 2030
- To cut down the emission by 1 billion tons by 2030
- Net-zero carbon by 2070

**NATURE EMPOWERED**

**What is Energy Efficiency?**

- Energy Efficiency is doing more with the same amount of energy or less energy.
- 28w BLDC fan consume 32w less power per hr. compare to conventional fan with 60w power
- For a house, usage of 14 hrs. per day, it saves 164 units per year
- 20w LED Light save 20w power per hr. compare to 40w conventional tube light
- For a house, usage of 10 hrs. per day, it saves 73 units per year

**NATURE EMPOWERED**



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**CO2 Emission/Avoided**

- For one unit of electrical energy consumption 0.79 Kg of CO2 is emitted to the atmosphere
- One unit of energy saved is equal to two unit of energy generation avoided at source
- 1KW Solar power plant produces 4.1 units/day
- One Fully grown tree absorbs 22 Kgs of CO2 per year

**NATURE EMPOWERED**

**Why Do Our Efforts to Conserve Energy Matter?**

- **Financial Benefits:** Save money
- **Ethical:** Do the right thing
- **Equity:** Climate change affects all of us, especially those of us who have the least
- **Caring About Future Generations:** What is our legacy?
- **Doing Our Part:** Being good stewards of our planet
- **Energy Independence:** Less energy used = Independence

**NATURE EMPOWERED**



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**Bureau of Energy Efficiency**

**ALGED**

**Awareness**

- Energy Conservation Awards
- Painting Competition
- State Designated Agencies

**Buildings**

- Energy Conservation Building Codes
- Retrofit in old buildings
- Residential Building Guidelines

**Star Rating of Appliances**

- 8 Mandatory Labelled Appliances
- 13 Voluntary Labelled Appliances

**National Mission for Enhanced Energy Efficiency**

- Perform, Achieve & Trade (PAT)
- Market Transformation for Energy Efficiency (MTEE)
- Framework for Energy Efficient Economic Development (FEEED)
- Energy Efficiency Financing Platform (EEFP)

**Demand Side Management**

- Agriculture DSM
- Municipal DSM
- Energy Efficiency in SMEs

**ENERGY AS LIFE**

**NATURE EMPOWERED**

**Energy Conservation**

**ALGED**

Images illustrating energy conservation: turning off a light switch, a hand holding a fan, a hand adjusting an air conditioner, a person sitting at a desk with a window view, people riding bicycles, and a Windows 7 desktop with a 'Turn off computer' dialog box.

**NATURE EMPOWERED**



*Dr. R. Muthukumar*

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95<sup>th</sup> Rank in NIRF – 2023 among Colleges in India.



### REPORT OF THE EVENT

Institution's Innovation Council celebrated National Energy Conservation Day on 14<sup>th</sup> Dec 2022 by organizing a special lecture on Energy Conservation. The webinar aimed at raising awareness on energy savings and its positive economical and environmental impact. C. Jebaraj, Energy Auditor, Alchemy Green Energy Company, Madurai, the speaker at the occasion, drew attention to the catastrophic effects of carbon emission and the depletion of energy resources in the present-day world. He said that the increasing energy demand reflects the growing needs of a developing country and he emphasized on the need to make this increase in energy demand more consistent with sustainable development. He discussed a number of government initiatives on energy efficiency and conservation and government agencies like Bureau of Energy Efficiency that works with the primary objective of reducing energy intensity of the Indian economy. He also sensitized the students on energy efficiency by giving them practical tips like using natural light, turning off computer and light and fan switches when not in use, using energy efficient appliances and going solar. He concluded by highlighting the importance of Skill Development and awareness Training Programs for Promoting a better understanding of energy conservation for the sake of world's population and future generations. The webinar had more than seventy student participants. It made them realize that they are not only the stakeholders but also contributors to global energy crisis. Their key takeaway from the meeting was their learning on saving energy in small ways.



  
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