

Clean Energy & Conservation Committee Report

VISION: The Clean Energy & Conservation Committee, Ram Lal Anand College, envisions a world where renewable energy sources power our lives, where energy consumption and waste are minimized, and where environmental sustainability is a shared value and responsibility. We aim to be a leading force in promoting and implementing clean energy and conservation practices on campus and beyond.

Mission: The Clean Energy & Conservation Committee's mission is to educate, inspire, and empower the college community to adopt renewable energy sources and technologies, reduce energy consumption and waste, and advocate for environmental sustainability. We do this by organizing workshops and seminars, conducting surveys and research, initiating and supporting projects that utilize renewable energy sources and technologies, and encouraging and rewarding innovation and creativity in solving clean energy and conservation challenges.

Clean Energy & Conservation Committee Faculty Information

NAME	POSITION
Prof. Archana Gaur	Convenor
Dr. Alankar	Member
Dr. Shalini Swami	Member
Ms. Leimiwon Zimik	Member

Slogan Writing Competition for Student's



The poster is for a slogan writing competition organized by the Clean Energy and Conservation Committee of Ram Lal Anand College, DBT STAR College, University of Delhi. It features logos of the college and university at the top. The text is centered and includes the topic 'Save Electricity', mode of conduction 'Online', language 'Hindi or English', and submission date '10th October 2022 (5:00PM)'. A QR code is provided for registration. At the bottom, there are two circular images: one showing a hand plugging a cord into a wall outlet, and another showing a hand holding a lit lightbulb. The names and titles of the convenor and principal are listed at the very bottom.

**Ram Lal Anand College
DBT STAR COLLEGE
University of Delhi**

Clean Energy and Conservation Committee

PRESENTS

Slogan Writing Competition

TOPIC:- Save Electricity
MODE OF CONDUCTION:- Online
LANGUAGE:- Hindi or English
LAST DATE OF SUBMISSION:- 10th October 2022
(5:00PM)
REGISTRATION LINK:- Scan the QR to register

**The BEST SLOGAN
will be displayed in
the college.**

For further queries:
Dr. Alankar (9971633597)
Dr. Shalini Swami (9958479607)

Prof. Archana Gaur **Prof. Rakesh Kumar Gupta**
Convenor Principal

1) Shivani Kumari	BA Prog (3rd year)	7870309736	shivani.ba141@rla.du.ac.in shivani7870@gmail.com	य हीऊज्जा दरु नयगे करगे तो नैसे देकर भी घर रोशन न कर नरओगे
2) Drishti	BA English (Hons) 2nd year	7061133739	drishti503eng@rla.du.ac.in	रोशनी की छ ोखबोकीदु नयके जगमगते तरें हैं, आओ ममरकर इन तरोंकी ससहट को बचते हैं
3) Kajal	BA Hons Hindi 3 rd Year	7303312953	kajal.hindi1028@rla.du.ac.in	ममरओ अधो रे रओ प्रकश, बचओ बबजरी करोदेश क वकस

4) Kushal Pandey	L.LB-2nd	9260974988	21lawc1125543@lc1.du.ac.in	SAVE ENERGY TO ENERGIZE EARTH
5) Jaya K. Pandey	BSc. (H) Computer Science, 2nd Year	8617825101	jaya4091@rla.du.ac.in jayakumaripandey8@gmail.com	"Watt Problem? With better Strategy: Let's Conserve Energy to achieve Synergy."
6) Nikita Pathania	BSc. (H) Computer Science, 2nd Year	9121850047	nikita4120@rla.du.ac.in	आज एक रीत हम ऐसी अननए, हर घर में हम बबजरी बचाए
7) Puneet Saini	BSC PSC	7412941903	puneetbagri112004@gmail.com	बबजरी कर दोसही उनयोग, वरन कर सहो इसका ववयो

जागरूकता मुहीम - विद्यार्थियों द्वारा रचित स्लोगन को बोर्ड के रूप में कॉलेज में दीवारों पर लगाकर जागरूकता पैदा की गयी.

यदि आप स्वस्थ हैं और बनें रहना चाहते हैं तो सीढ़ियों का प्रयोग करें।

Global WARMING is a
Global WARNING
SAVE ENERGY

Be COOL
Save ENERGY & FUEL

There is NO PLANET B
Reduce, Reuse & Recycle

Only For Staff
& PWD STUDENTS

CLEAN ENERGY AND CONSERVATION Sub- COMMITTEE

On the recommendations of the Swachhta Action Plan Committee of the college, the sub-committee on Clean Energy and Conservation had proposed to conduct a feasibility study of installing motion-sensor technology controlled lights in toilets, washrooms, restrooms etc of the college.

The sub-committee found the following feasibility:

There are two ways of using motion-sensor controlled lighting system:

- a) Each bathroom, toilet can have one sensor installed through which all lighting of the particular toilet/bathroom can be controlled. Such sensors are available through online portals and their price starts from Rs. 500/- appx and goes much higher. Installation of each such sensor will require technical assistance of trained installation team. Fitting of sensors and connecting them to all lights will need to be done. Floating of tender may be a requirement.
- b) Other option is to go for standalone LED Tubelights and bulbs which work on motion sensor technology. Reputed brands like Phillips manufacture and sell such LED tubelights which are also available on online portals. No professional technical assistance will be required and our college electrician's services may be used to change the current tubelights. Such motion sensor based LED tubelights start at a cost of Rs. 750 each and go higher.

Another important consideration is that different online reviews of these motion-sensor based lighting systems give an impression that such technology works well in dim light, dark mode or at night. So the committee also needs to assess whether making such changes will actually solve our purpose conveniently or not at college.

May it be proposed that first we should do an experimental change at a couple of washrooms/toilets with use of standalone LED tubelights which work on motion-sensor technology. If the results are optimum then further decision can be collectively arrived at.

The total number of toilets and bathrooms are 12 for our purpose and we may require approximately 24 LED Tubelights based on motion-sensor technology. Around a dozen such bulbs may also be used at a later stage to complement tubelights.

Session 2022-2023

Law of Conservation of Energy says energy can neither be created nor destroyed, only transformed from one form to another that implies light energy; with this under the mandate of our sub-committee "**Clean energy and conservation,**" which comes under the **Swachta Action Plan Committee,** efforts were made to reduce energy consumption and conserve energy via the judicious use of energy in conjunction with decreased energy consumption from conventional energy sources. The following initiatives were taken to create awareness and inculcate the mindset of the Ram Lal Anand College students on the wise and judicious use of energy.

A slogan writing event on "**Save Electricity**" was organized on 10th October, 2022 in online mode for the cognition of the prudent use of electricity. A group discussion and deliberation under Statecraft Society centered on the theme of Political Ecology. The event was organized on 17th January, 2023 in collaboration with the **Clean Energy and Conservation Committee** as well as **Samdrishti'** the college magazine. More than 65 students attended the event. The aim of the event was to engage the students to delve into the complexities of Political Ecology as well as its issues pertaining to contemporary India. A grid-connected solar rooftop system of 130KW on the college premises without a battery backup was installed to conserve the renewable energy source. Since 2017-18 all the lights in the classrooms and laboratories have been well equipped with LED lights and power-saving fans with brushless direct current to minimize energy loss. Additionally, 16 solar lights utilizing 10-12 watts were installed on the streets of Ram Lal Anand College premises to explore better use of the renewable energy source Further, a dedicated team of faculty members and students monitor the lights and all the electrical appliances like computers, laboratory instruments etc should be switched off in classrooms, laboratories, libraries, and staffrooms when not in use or before leaving the rooms to make a judicious use of power.

The poster is for an event organized by the Statecraft Society, Dept. of Political Science, Ram Lal Anand College, University of Delhi. It is in collaboration with the Clean Energy & Conservation Committee and Samdrishti, the college magazine. The event is a group discussion and deliberation on Political Ecology in Contemporary India, held on Tuesday, 17 January 2023, from 02:00 PM onwards in Room 03, RLAC Campus. The poster features a collage of images related to environmental and social issues, including a person holding a protest sign, a solar panel, and a person working in a field. The text on the poster includes the names of the organizers: Prof. Rakesh Kumar Gupta (Principal), Prof. Archana Gaur (Convenor, Clean Energy & Conservation Committee, Samdrishti), Dr. Kshama Sharma (HoD, Dept. of Political Science), Dr. Triranjjan Raj (Senior Faculty, Dept. of Political Science), and Dr. Alankar (Convenor, Statecraft).

Solar Panel and

A grid – connected solar
130 KW onthe college

Electricity Saver

rooftop system of
premises without

the battery backup was installed to conserve the renewable energy source .Since 2017-18 all the lights in the classroom and laboratories have been well equipped with LED lights and power -saving fans with brushless direct current to minimize energy loss. Additionally ,16 solar lights utilizing 10-12 watts were installed on the street of Ram Lal Anand College premises to explore better use of the renewable energy source further ,a dedicated team to faculty members and student monitor the lights and all the electrical appliances like computers,laboratory's instruments ect. should be switched off in class rooms , laboratories , library and staff rooms when not in use or before leaving the rooms to make a judicious use of power.

Solar Panel



Boards in the Classrooms for Electricity Saver



Clean Energy and Conservation

Energy is the requirement of our daily lives hence its production and usage matters. Nowadays most energy is created through combustion of coal and fossil fuels which creates a lot of heat and causes pollution. Therefore we need a shift towards clean energy which constitutes negligible or no pollution such as solar, hydro, wind, geothermal, tidal etc energies. Their plant installation is expensive but that's only one time investment with higher long term returns and proves to be pocket friendly. Clean energy is not only economically efficient but also causes no health damage to residents nearby the site of production. Fossil fuels are limited but renewable resources are endless and still a lot of potential is left to acquire in the production of clean energy.

Do you know according to a study only one percent of sunlight that falls on earth gets utilized by plants only utilized by our solar panels is next to nothing. As you know more demand requires that much supply that's how the market works. This leads to more combustion of fossil fuels which directly hits nature and has consequences. Thus we need to conserve energy too by reducing the overuse of appliances, off the vehicle's engine during red light or in jam and many more ways you read during junior kindergarten. This not only reduces your bills but also makes a step towards environment protection.

By generating and consuming clean energy and energy conservation we can bless our future generations. It may not get mentioned in your will but believe me upcoming generations will be highly obliged to you.

Written by Devansh Kumar
2nd year, Microbiology (Honors)
Roll number- 4553

Clean energy and Conservation of energy

Energy plays a significant role in our daily activities, so we must be aware of the impending energy crisis the world will face in the upcoming years if we do not adopt energy conservation measures. There will be few sources of energy left for our future generation, or there won't be any at all.

Therefore, "Energy Conservation" should be wisely practiced and should become a part of everyone's lives. The phrase itself is self-explanatory: we must conserve energy in order to survive on the planet, and we owe it to future generations to provide them with enough energy.

Everyone finds it difficult to conserve energy, but we must still develop the habit of doing so. Small steps toward energy conservation can add up to significant savings. For example, we frequently forget to turn off the fan when we leave the sitting area, which wastes a lot of electricity (another type of energy), or we leave the engine running while waiting at a stop sign, both of which waste energy and contribute to pollution. We are reducing pollution by using less energy.

And now is the time to be mindful of the energy-producing sources we are using, as we will soon run out of non-renewable energy sources like coal and oil refineries. Consequently, we are switching to renewable energy sources. Today, renewable energy sources are used to produce a large portion of the energy consumed. However, the majority of renewable energy sources pollute. Thus, "clean energy" sources are required because they produce energy without causing any kind of pollution. Hence, using clean energy sources like wind, hydroelectric, and geothermal energy has many benefits. They are safe to use, environmentally friendly, can be used indefinitely, encourage energy independence, and support local economies by creating jobs.

Swati mishra
Bsc hons microbiology
2nd year