



R. C. PATEL

INSTITUTE OF TECHNOLOGY, SHIRPUR

An Autonomous Institute



ENERGY CLUB

ACTIVITIES REPORT 2024-25



DEPARTMENT OF ELECTRICAL ENGINEERING



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ABOUT ENERGY CLUB

The Energy Club of our institute is dedicated to fostering awareness and understanding of diverse energy-related topics, ranging from renewable energy sources to sustainable practices. The club provides a vibrant platform for students to explore, discuss, and contribute to the ever-evolving field of energy through interactive events, workshops, seminars, and discussions.

Members actively collaborate on projects that promote energy conservation and advocate cleaner and greener solutions. By nurturing innovation and knowledge sharing, the club aims to inspire the next generation of leaders committed to tackling global energy challenges.

To enrich students' real-world understanding, the club regularly organizes industrial visits, expert talks, and hands-on sessions with professionals from the energy sector. Overall, the Energy Club plays a crucial role in empowering students to make a meaningful contribution toward energy efficiency and sustainability.

VISION

To be a dynamic platform that inspires students to innovate, explore, and lead in the field of sustainable energy by promoting technical excellence, environmental responsibility, and research-driven solutions for a greener future.

MISSION

- To create awareness about renewable energy, energy conservation, and sustainable engineering practices through technical activities, workshops, seminars, and outreach programmes.
- To enhance students' practical knowledge and technical skills through hands-on learning, industrial interactions, innovation competitions, and research activities.
- To encourage interdisciplinary collaboration, leadership, teamwork, and professional ethics while addressing real-world energy challenges.
- To promote emerging technologies such as Electric Vehicles (EVs), IoT, Embedded Systems, Smart Grids, Automation, and Clean Energy Solutions.
- To contribute towards societal development by organizing community outreach programmes and supporting the achievement of the United Nations Sustainable Development Goals (SDGs).



CLUB CONSTITUTION

Position	Designation	Name / Detail
Faculty Advisor	Head of Department	Prof. Dr. Shailaja Arjun Patil
Faculty Coordinator	Coordinator	Prof. Krunalkumar Jitendrakumar Gandhi
Student Coordinator	Student (FY-Electrical)	Pragati Subhash Patil
Student Coordinator	Student (FY-Electrical)	Shreyas Ganesh Pawar
Secretary	Student (FY-Electrical)	Vishvpratap Singh
Members	15 Student Members (FY Electrical)	Full roster in Annexure I

ANNEXURE I: CLUB MEMBER ROSTER

Sr. No.	Name	Mobile No.	Email ID
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ACTIVITY - 1

EVENT REPORT

Event: Poster Making Competition

Venue: Electrical Engineering Department classroom

Organized by: Energy Club, R. C. Patel Institute of Technology, Shirpur

Date: 19 september 2024

INTRODUCTION

The Energy Club of the Department of Electrical Engineering, R. C. Patel Institute of Technology, Shirpur organized a Poster Making Competition to encourage creativity, technical communication, innovation, and awareness of sustainable engineering practices among students.

The competition provided students with an opportunity to visually communicate technical concepts and innovative ideas through creative poster designs. Participants presented creative and technically sound posters showcasing themes related to innovation, sustainability, energy awareness, and real-world problem-solving.

The activity provided an effective platform for students to combine their technical knowledge with creativity and visual communication skills while addressing contemporary engineering and societal challenges.

OBJECTIVES OF THE WORKSHOP

The key objectives of the competition were:

- To encourage creativity and innovation among students.
- To promote awareness of sustainable energy and engineering practices.
- To develop students' ability to communicate technical concepts visually.
- To encourage students to identify and present solutions to real-world problems.
- To enhance technical presentation and communication skills.
- To develop an interest in emerging technologies and sustainable development.
- To provide a platform for students to showcase their innovative ideas.



PLANNING

The Energy Club planned the Poster Making Competition as a creative and technical activity aimed at encouraging students to communicate engineering ideas through visual representations. The organizing committee finalized the competition guidelines, themes, evaluation criteria, venue, and presentation arrangements in advance.

Students were informed about the competition requirements and encouraged to develop posters focusing on innovation, sustainability, energy-related challenges, emerging technologies, and practical solutions to real-world problems. Evaluation parameters were designed to consider creativity, technical content, originality, relevance, visual presentation, and practical applicability.

Necessary arrangements for poster display, evaluation, and documentation were completed before the commencement of the activity.

EXECUTION

The Poster Making Competition was conducted with active participation from students of the Department of Electrical Engineering. Participants prepared and presented posters based on innovative engineering concepts, sustainability, energy-related challenges, and real-world problem-solving.

Students demonstrated their creativity by combining technical information, illustrations, diagrams, and concise explanations to communicate their ideas effectively. The posters reflected students' understanding of contemporary engineering challenges and their ability to propose innovative and sustainable solutions.

The displayed posters were evaluated by the designated evaluators based on technical soundness, creativity, originality, relevance, sustainability, visual appeal, and practical applicability.

The activity concluded with appreciation of the participating students and recognition of the creative and technically strong poster presentations.

OUTCOMES

After successful completion of the competition, students were able to:

- Demonstrate creativity and innovative thinking.
- Communicate technical concepts through visual media.
- Identify real-world engineering and sustainability challenges.
- Propose innovative and practical solutions to identified problems.
- Improve technical writing and presentation skills.
- Develop awareness of sustainable energy and environmental issues.
- Strengthen confidence in presenting technical ideas.
- Integrate engineering knowledge with creativity and visual communication.



IMPACT

The Poster Making Competition successfully encouraged students to explore innovative ideas and communicate technical concepts in a creative and engaging manner. The activity provided an opportunity for students to connect theoretical engineering knowledge with real-world challenges related to sustainability, energy, technology, and society.

The competition also strengthened students' communication, creativity, critical thinking, and problem-solving abilities. By focusing on sustainability and practical solutions, the activity contributed to developing an awareness of the role of engineers in addressing contemporary societal and environmental challenges.

For the Energy Club, the activity strengthened its role as a platform for promoting innovation, sustainability, technical awareness, and student engagement within the department.

PO / PSO MAPPING

PO / PSO	Level	Justification
PO1	2	Applied engineering knowledge while preparing technically sound posters on relevant engineering themes.
PO2	2	Identified and analysed real-world problems related to energy, technology, and sustainability.
PO3	2	Proposed innovative and practical solutions through poster concepts and technical illustrations.
PO5	2	Utilized appropriate digital and visual tools for preparing and presenting technical information.
PO9	2	Encouraged interaction, peer learning, and collaborative participation during the activity.
PO10	3	Enhanced technical communication through effective visual presentation of engineering ideas.
PO12	2	Encouraged continuous learning and awareness of emerging technologies and sustainable practices.
PSO1	2	Presented concepts related to energy systems, sustainable energy utilization, and power-system applications.
PSO2	2	Included applications involving electrical machines, drives, control, and energy-efficient technologies where relevant.
PSO3	3	Promoted awareness of automation, sensors, IoT, and emerging technologies through innovative technical concepts.

SDG MAPPING

SDG	Description	Relevance
SDG 4	Quality Education	Promoted creative, experiential, and technical learning among students.
SDG 7	Affordable and Clean Energy	Encouraged awareness and innovative ideas related to sustainable and efficient energy utilization.
SDG 9	Industry, Innovation and Infrastructure	Promoted technological innovation and engineering-based problem-solving.
SDG 11	Sustainable Cities and Communities	Encouraged students to develop ideas addressing sustainable community and infrastructure.
SDG 12	Responsible Consumption and Production	Created awareness about efficient utilization of resources and sustainable practices.
SDG 13	Climate Action	Encouraged technical ideas addressing environmental sustainability and climate-related challenges.

EVIDENCE





ACTIVITY HIGHLIGHTS

- Poster Making Competition organized by the Energy Club, Department of Electrical Engineering.
- Students showcased creative and technically sound posters.
- Posters focused on innovation, sustainability, energy awareness, and real-world problem-solving.
- Students effectively combined technical content with creative visual communication.
- The activity enhanced students' creativity, technical communication, and problem-solving skills.
- Encouraged awareness of sustainable engineering and emerging technologies.
- Provided a platform for students to present innovative ideas in an engaging visual format.
- Strengthened the Energy Club's efforts toward promoting innovation, sustainability, and technical excellence.



ACTIVITY - 2

WORKSHOP REPORT

Event: Energy Saving Awareness Campaign

Venue: R. C. Patel Institute of Technology, Shirpur

Organized by: Energy Club, R. C. Patel Institute of Technology, Shirpur

Date: 14 February 2025

INTRODUCTION

The Energy Club of the Department of Electrical Engineering, R. C. Patel Institute of Technology, Shirpur organized an Energy Saving Awareness Campaign to create awareness among students about energy conservation, sustainable energy sources, and environmentally responsible practices.

As part of the campaign, students prepared and presented creative awareness material highlighting the importance of saving electricity, using renewable energy, adopting electric mobility, recycling resources, and promoting alternative fuels. The awareness poster featured key messages such as "Light Turn Off When Leaving Room," "Turn Off Switch When Not in Use," "Solar Energy," "Wind Energy," "Electric Car," "Recycle," and "Biofuel," along with the central message "Save Energy – Save Earth."

The campaign aimed to communicate that small individual actions, combined with the adoption of clean-energy technologies, can contribute significantly toward sustainable development and environmental protection.

OBJECTIVES OF THE WORKSHOP

The key objectives of the campaign were:

- To create awareness about the importance of energy conservation.
- To encourage students to switch off lights and electrical appliances when not in use.
- To promote the use of solar and wind energy as clean energy sources.
- To create awareness about electric vehicles and sustainable transportation.
- To encourage recycling and responsible utilization of resources.
- To introduce the importance of alternative fuels such as biofuel.
- To motivate students to adopt environmentally responsible habits.
- To promote the message "Save Energy – Save Earth."



PLANNING

The Energy Club planned the Energy Saving Awareness Campaign as a student-centred activity to communicate energy conservation and sustainability messages through creative visual content.

Students were encouraged to develop awareness posters focusing on practical energy-saving measures and sustainable technologies. The campaign themes were selected to cover both individual energy-saving behaviour and clean-energy alternatives.

The awareness material was designed around the following key messages:

- Turn off lights when leaving a room.
- Turn off switches when electrical appliances are not in use.
- Promote solar energy.
- Promote wind energy.
- Encourage electric mobility through electric cars.
- Encourage recycling.
- Create awareness about biofuel.
- Emphasize the overall message: Save Energy – Save Earth.

EXECUTION

The Energy Saving Awareness Campaign was conducted through creative poster-based awareness activities by the Energy Club. Students prepared and displayed an awareness poster depicting the Earth surrounded by practical energy conservation and sustainable technology messages.

The poster creatively represented an electric car, solar energy, and wind energy as clean-energy alternatives. It also highlighted simple behavioural measures such as switching off lights when leaving a room and turning off electrical switches when appliances are not in use.

The campaign further emphasized recycling and biofuel as important components of sustainable resource utilization. Through the central visual representation of the Earth being protected by human hands, the campaign conveyed the responsibility of individuals toward environmental conservation.

The activity concluded with interaction and awareness among students regarding the importance of adopting energy-efficient and environmentally responsible practices in their daily lives.



OUTCOMES

After successful completion of the campaign, students were able to:

- Understand the importance of saving electrical energy.
- Recognize unnecessary electricity consumption in daily activities.
- Adopt simple practices such as switching off unused lights and appliances.
- Understand the role of solar and wind energy in sustainable energy generation.
- Develop awareness about electric vehicles as an alternative transportation technology.
- Recognize the importance of recycling and resource conservation.
- Understand the potential role of biofuel as an alternative energy source.
- Develop environmental responsibility through energy-conscious behaviour.

IMPACT

The Energy Saving Awareness Campaign effectively communicated the importance of energy conservation and sustainable living through a simple and visually engaging awareness poster. The combination of behavioural messages and clean-energy technologies helped students understand that energy sustainability requires both responsible consumption and adoption of cleaner energy alternatives.

The campaign highlighted practical actions that students can implement immediately, particularly switching off unnecessary lights and electrical appliances. At the same time, the representation of solar energy, wind energy, electric vehicles, recycling, and biofuel broadened students' understanding of sustainable energy solutions.

The central message "Save Energy – Save Earth" reinforced the connection between energy conservation and environmental protection, encouraging students to become responsible users and promoters of sustainable energy practices.



PO / PSO MAPPING

PO / PSO	Level	Justification
PO1	2	Applied basic engineering knowledge related to energy conservation and sustainable energy technologies.
PO2	2	Identified common energy-wasting practices and highlighted suitable conservation measures.
PO3	2	Presented practical solutions such as energy-efficient practices and renewable energy alternatives.
PO6	3	Created awareness about the engineer's responsibility toward society and environmental sustainability.
PO7	3	Promoted environmental sustainability through energy conservation, renewable energy, and recycling awareness.
PO9	3	Encouraged teamwork and participation through Energy Club awareness activities.
PO10	3	Developed communication skills through visual awareness and interaction with students.
PO12	2	Encouraged continuous learning and awareness of emerging sustainable energy technologies.
PSO1	3	Promoted awareness of efficient power utilization, renewable energy generation, and sustainable power-system practices.
PSO2	2	Created awareness about electric vehicles and energy-efficient electrical systems and equipment.
PSO3	2	Promoted awareness of emerging technologies supporting intelligent and energy-efficient systems.

SDG MAPPING

SDG	Description	Relevance
SDG 7	Affordable and Clean Energy	Promoted solar energy, wind energy, energy conservation, and clean-energy alternatives.
SDG 11	Sustainable Cities and Communities	Promoted electric mobility and sustainable energy practices.
SDG 12	Responsible Consumption and Production	Encouraged switching off unused appliances and recycling resources.

SDG 13	Climate Action	Promoted energy conservation and cleaner energy alternatives to reduce environmental impact.
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EVIDENCE



ACTIVITY HIGHLIGHTS

- Energy Saving Awareness Campaign conducted by the Energy Club.
- Creative awareness poster developed around the theme "Save Energy – Save Earth."
- Awareness created regarding switching off unused lights and electrical appliances.
- Promoted solar and wind energy as clean-energy sources.
- Created awareness about electric vehicles and sustainable transportation.
- Highlighted recycling and responsible resource utilization.
- Introduced biofuel as an alternative energy source.
- Connected individual energy-saving habits with broader environmental sustainability.
- Encouraged students to adopt responsible and sustainable energy practices in daily life.



ANNUAL SUMMARY

The Academic Year 2024–25 witnessed focused activities by the Energy Club of the Department of Electrical Engineering, R. C. Patel Institute of Technology, Shirpur, aimed at promoting creativity, technical awareness, energy conservation, and sustainability among students.

The year included two major activities: a Poster Making Competition and an Energy Saving Awareness Campaign. The Poster Making Competition provided students with a platform to present creative and technically sound posters highlighting innovation, sustainability, energy awareness, and real-world problem-solving. The activity helped students strengthen their creativity, technical communication, visual presentation, and problem-solving skills.

The Energy Saving Awareness Campaign focused on creating awareness about responsible energy consumption and sustainable energy practices. The campaign highlighted practical measures such as switching off unused lights and electrical appliances and promoted solar energy, wind energy, electric vehicles, recycling, and biofuel as important elements of sustainable development. The campaign conveyed the central message “Save Energy – Save Earth” and encouraged students to adopt energy-conscious practices in their daily lives.

Overall, the Energy Club's activities during 2024–25 contributed to developing students' awareness of energy conservation, renewable energy, sustainable technologies, innovation, and environmental responsibility. The activities also supported the department's commitment to experiential learning, student engagement, and the development of socially and environmentally responsible engineering professionals.