

## 7.4 Energy and Community

### 7.4.1. Programmes for local community to learn about importance of energy efficiency and clean energy



#### 7.4.1 - Does your university as a body provide programmes for local community to learn about importance of energy efficiency and clean energy?

Yes, Our university strongly supports **SDG 7** by promoting clean energy and energy efficiency through community workshops, awareness drives, and hands-on demonstrations. Public access to **Renewable Energy Labs and solar model centres** helps citizens understand practical solutions such as rooftop solar, efficient appliances, and smart energy use. We **provide training in solar installation and energy auditing**, building green skills among youth and technicians. Partnerships with **local bodies and NGOs** support rooftop-solar adoption, subsidy guidance, and clean-cooking initiatives. Campus practices such as **solar power use, LED retrofitting, and energy audits** reinforce our message, allowing the campus to serve as a living model of sustainability. **Through continued outreach and capacity building, the university strengthens community access to affordable and clean energy in alignment with SDG 7.**



**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
 AVADI, Chennai - 600 054, Tamil Nadu.

Phone: 044-26558080-84  
 E-mail: registrar@spiher.ac.in  
 Website: www.spiher.ac.in

### Community Energy Outreach and Clean Energy Promotion Policy

<b>Policy Created on:</b>	01/07/2020	<b>Approved by:</b>
<b>Revision 1</b>	10/02/2024	
		<b>REGISTRAR</b>



**Registrar**  
 St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
 Avadi, Chennai-600 054.

**Directly supported SDGs**

- **SDG 7 Affordable and Clean Energy**
- **SDG 13 Climate Action**

**Indirectly supported SDGs**

- **SDG 4 Quality Education**
- **SDG 11 Sustainable Cities and Communities**
- **SDG 17 Partnerships for the Goals**



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## Community Energy Outreach and Clean Energy Promotion Policy

### Introduction

SPIHER affirms its dedication to promoting energy literacy, clean technology adoption, and climate action within the local community. This Community Energy Outreach and Clean Energy Promotion Policy reflects the Institute's expanded engagement through digital education, rural partnerships, and research-based community development. It aligns with India's National Mission for Enhanced Energy Efficiency (NMEEE) and supports SPIHER's vision of being a catalyst for sustainable social transformation.

### Purpose

The purpose of this revised policy is to strengthen and scale SPIHER's community initiatives on energy conservation and clean energy promotion. It seeks to enhance the Institute's outreach capacity by integrating modern communication tools, interdisciplinary expertise, and measurable sustainability outcomes.

### Scope

This policy applies to all departments, clubs and extension centres engaged in community development. The program extends to rural panchayats, schools and self-help groups in Tamil Nadu's semi-urban and rural regions.

### Revised Policy Framework

- **Digital Energy Literacy Campaign:** SPIHER will launch digital platforms, mobile awareness drives and events to educate households on energy efficiency practices.
- **Women and Youth Empowerment:** Tailored programs will train women self-help groups and rural youth in solar entrepreneurship and sustainable livelihoods.
- **Partnerships and Collaborations:** SPIHER will collaborate with BEE-certified partners for community capacity building.
- **Research and Innovation:** Faculty and students will undertake action research on local energy patterns and recommend customized clean energy solutions.



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- **Impact Monitoring:** The outreach impact will be assessed through key indicators such as local community reach, training hours delivered and energy savings achieved.

#### Governance and Implementation

The Office of Outreach and Sustainability will be the nodal body for implementation, guided by the Sustainability Committee. Periodic audit report will be compiled and analyzed for transparency and accountability.

#### Conclusion

Through this policy, SPIHER advances its mission of fostering sustainable development through education, research, and social engagement. By empowering communities with knowledge on energy efficiency and clean energy, SPIHER continues to drive positive environmental change and inclusive growth in society.

10.2.2024

  
REGISTRAR



Registrar

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## EVENT REPORT



**St. PETER'S**  
**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
NAAC Accredited, AICTE Approved and ISO 9001:2015 Certified




**INSTITUTION'S INNOVATION COUNCIL**  
(OFFICE OF INNOVATION & RESEARCH)



**On Occasion of Engineer's Day**

**DEPARTMENT OF MECHANICAL ENGINEERING**

Organizes

**Engineer's Drive for a Greener Future**



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION

**A Rally for Public Awareness on Carbon Footprint Mitigation**



 **18<sup>th</sup> September 2024 | 10.30 a.m.**

**Convenor**

**Dr. N. Rajeswari**  
HoD  
Department of Mechanical Engineering

**Coordinator**

**Mrs. K. Sunitha**  
Asst. Professor  
Department of Mechanical Engineering

Eco Footprint

Cleaner World

Carbon Conscious Communities

Green Actions Bright Future

Action on Climate change

 **+91 9445638085**

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

 [spiher.ac.in](https://www.facebook.com/spiher.ac.in)

 [@spiher.ac.in](https://www.instagram.com/spiher.ac.in)

## REPORT ON ENGINEER'S DAY - ENGINEER'S DRIVE FOR A GREENER FUTURE

### Public Awareness on “Carbon Footprint Mitigation”

**Date: 18<sup>th</sup> September 2024**

On September 18, 2024, the Department of Mechanical Engineering organized a rally aimed at raising public awareness on "Carbon Footprint Mitigation." The event convened by Dr. N. Rajeswari, Professor & Head and organized by Ms. K. Sunitha, Asst. Professor with significant contributions from all teaching and non-teaching members of the Department of Mechanical Engineering, involved students from various engineering departments and highlighted the critical issues about carbon emissions and their impact on the environment.

The rally commenced with an inspiring speech by Dr. S. Selvan, the Engineering Dean, who emphasized the urgency of addressing climate change and the role individuals can play in mitigating its effects. Following this, students along with the faculty members marched through Tonakela Camp Road, Sankar Nagar, Avadi, engaging the public with informative posters and distributing leaflets outlining actionable steps to reduce carbon footprints.

The rally focused on educating public about the various impacts of carbon emissions, including:

- **Climate Change:** The connection between carbon footprints and global warming.
- **Health Issues:** How poor air quality resulting from emissions can lead to health problems.
- **Economic Impact:** The rising costs associated with food, water, and energy due to climate change.
- **Extreme Weather:** The increasing frequency of severe weather events and rising sea levels as a result of environmental degradation.

Public were given awareness to adopt sustainable practices, which included:

- **Reducing Energy Usage:** Turning off lights, using energy-efficient appliances, and minimizing reliance on cooling systems.
- **Choosing Sustainable Transportation:** Promoting walking, cycling, carpooling, and public transit to reduce carbon emissions associated with personal vehicle use.
- **Reducing, Reusing, Recycling:** Advocating for waste reduction through reusing materials and supporting products with sustainable packaging.
- **Conserving Water and Natural Resources:** Using water responsibly and reducing the consumption of goods that harm the environment.
- **Supporting Clean Energy:** Encouraging the use of renewable energy sources and advocating for sustainable practices in local communities.
- **Planting Trees and Preserving Green Spaces:** Engaging in reforestation efforts and protecting local green areas that serve as carbon sinks.
- **Contributing to Climate Action:** Promoting practices that reduce greenhouse gas emissions and advocating for a sustainable future.

The rally concluded with a call to action for all participants to commit to these sustainable practices and inspire others in their communities. Feedback from attendees indicated a heightened awareness of the importance of individual actions in combating climate change.



**Students Exhibiting the Banners for Rally**



**Dr.S. Selvan, Engg. Dean, Commencing the Rally that provides awareness for local community to learn about importance of energy efficiency and clean energy**



Students march that provides awareness for local community to learn about importance of energy efficiency and clean energy



Students march in public that provides awareness for local community to learn about importance of energy efficiency and clean energy



**Students march in public that provides awareness for local community to learn about importance of energy efficiency and clean energy**

## Role of Hydrogen in Sustainable Transportation

**Seminar Topic: ‘Role of Hydrogen in Sustainable Transportation’**

**Date: 19/09/2024**

**Resource Person: Dr. AK. Sahu, Principal Scientist, Central Electrochemical Research Institute, Madras Unit, CSIR Madras Complex, Taramani, Chennai.**

This seminar on “*Role of Hydrogen in Sustainable Transportation*” was organized to highlight emerging clean-energy solutions and their impact on the future of mobility. In alignment with SDG 7: Affordable and Clean Energy, the session focused on hydrogen as a renewable, carbon-free fuel essential for building an energy-efficient and environmentally responsible transportation sector.

The seminar discussed the production of green hydrogen, its high energy density, and its potential to drastically reduce emissions from heavy vehicles, public transport, and industrial logistics. Participants gained insights into fuel-cell technology, hydrogen storage systems, and global advancements in hydrogen-powered mobility. The resource person emphasized how hydrogen can complement solar and wind energy to create a resilient and diversified clean-energy ecosystem. By creating awareness of hydrogen’s role in decarbonizing transportation, the seminar encouraged students to explore innovative, sustainable energy solutions and contributed to strengthening institutional commitment to SDG 7: ensuring access to clean, reliable, and modern energy for all.

The brochure is a vertical poster with a blue background. At the top, it features the logos of St. Peter's Institute of Higher Education & Research, ISO 9001:2015, 33 Years Celebrating Excellence, NAAC A+ Accredited, and SDG 7. The main text reads: "DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Organizes Seminar on Role of Hydrogen in Sustainable Transportation". The date and time are "19<sup>th</sup> September 2024 | 9.30 am to 11.00 am" and the location is "Seminar Hall, Main Building, SPIHER". The resource person is "Dr. AK Sahu, Principal Scientist, Central Electrochemical Research Institute, Madras Unit, CSIR Madras Complex, Taramani, Chennai". The convener is "Dr. R. Rani Hemamalini, Director-IQAC & Head" and the co-ordinator is "Dr. Arunkumar J, Assoc-Professor". The bottom of the brochure includes the department name "Department of Electrical & Electronics Engineering" and contact information: phone "+91 84 49938088", website "www.spiher.ac.in", and social media handles "spiher.ac.in" and "@spiher.ac.in".

**Programme Brochure**



**Dr. R. Rani Hemamalini addressing the gathering in the context of spreading awareness on the importance of energy efficiency and clean energy**



**Interaction of the Chief Guest with the team and Vice Chancellor on the importance of energy efficiency and clean energy**

## Public Links

<https://www.instagram.com/p/DADJFiPPeXY/?igsh=MWZoNXAyYzZpemcwOQ==>

<https://www.facebook.com/share/p/6dSR6UYqBQbTJSV1/?mibextid=qi2Omg>

<https://x.com/SpiherIndia/status/1836297508986790332?t=FRWZAbKTIImK4py4Ry8rRw&s=19>

<https://x.com/SpiherIndia/status/1836297508986790332?t=FRWZAbKTIImK4py4Ry>

## SAPLING PLANTATION DRIVE

<b>Program Title</b>	<b>Sapling Plantation Drive</b>
<b>Program theme</b>	NSS CAMP
<b>Duration of Event</b>	3 hrs
<b>Organized by</b>	Department of ECE in Association with Dr.A.P.JAbdulkalam Dreams Trust and NSS Unit
<b>Date and Time</b>	30th July 2024, 10.00 a.m
<b>Co-ordinator</b>	Dr.Periyaswamy Prof-Mech and Ms. R. Nirmala, AP-ECE
<b>NSS brochures Links</b>	<a href="https://www.instagram.com/p/C9913KdP1kY/?igsh=MWtzN2FsbTRpcW5jdA==">https://www.instagram.com/p/C9913KdP1kY/?igsh=MWtzN2FsbTRpcW5jdA==</a>
	<a href="https://www.facebook.com/share/p/ayMy7TYgGyiu4qNy/?mibextid=qi2Omg">https://www.facebook.com/share/p/ayMy7TYgGyiu4qNy/?mibextid=qi2Omg</a>
	<a href="https://www.linkedin.com/posts/spiherchennai_climateaction-spiher-nss-activity-7223303002139283456-S9xR?utm_source=share&amp;utm_medium=member_android">https://www.linkedin.com/posts/spiherchennai_climateaction-spiher-nss-activity-7223303002139283456-S9xR?utm_source=share&amp;utm_medium=member_android</a>
	<a href="https://x.com/SpiherIndia/status/1817537477793779891?t=QAd691DV45Su3ZfYqE4V0g&amp;s=19">https://x.com/SpiherIndia/status/1817537477793779891?t=QAd691DV45Su3ZfYqE4V0g&amp;s=19</a>
<b>Convenor</b>	Dr. G. P. Ramesh Prof & Head, ECE, SPIHER
<b>Venue</b>	Kannappalayam Village Government School

<p><b>Key Points Discussed</b></p>	<p><b>Environmental Impact:</b> Improving air quality, supporting biodiversity, controlling erosion, and contributing to climate regulation.</p> <p><b>Educational Value:</b> Enhancing students' understanding of ecology, botany, and environmental responsibility.</p> <p><b>Community Engagement:</b> Strengthening community ties and promoting collective action for environmental conservation.</p>
<p><b>Objectives</b></p>	<p>Sapling plantation drive is well-organized and impactful, fostering a sense of environmental stewardship among students and improving the overall health of the ecosystem.</p>
<p><b>Outcome of the program / Benefits</b></p>	<p>Sapling plantation drive in a village school has the potential to create significant positive impacts across various areas, contributing to environmental sustainability, educational enrichment, and community well-being.</p>
<p><b>Total no. of students participated</b></p>	<p><b>32</b></p>
<p><b>No. of faculty members participated</b></p>	<p><b>3</b></p>
<p><b>No of External Members</b></p>	<p><b>4</b> (Collaborate with local environmental organizations-Dr.A.P.JAbdulkalam Dreams Trust <b>S.Udyakumar, A.Mathew</b> . Kannappalayam Ward member <b>Devi Nithyanandhan, Jamuna</b> -Head master Kannappalayam Government School are the External member involved in Sapling Plantation Drive.)</p>



**Faculty and Students taking part in the sapling plantation drive in the context of spreading awareness of clean energy**

**PUBLICITY MATERIAL**

**2**



■ டாக்டர்.அப்துல் கலாம் ஜயா அவர்களின் நினைவு நானை முன்னிட்டு செயின்ட் பீட்டர்ஸ் இன்ஸ்டிடியூட் ஆஃப் ஹெயர் எஜுகேஷன் அண்ட் ரிசர்ச் NSS மாணவ மாணவிகள், DR.APJ ABDUL KALAM 2021 DREAM TRUST - கீரின் டிரிம்ஸ் பவுண்டேசன் இணைந்து, கண்ணப்பாளையம் கிராம அரசுப் பள்ளி வளாகத்தில் மரக்கன்றுகள் நடும் நிகழ்ச்சி சிறப்பாக நேற்று காலை நடைபெற்றது. இந்நிகழ்ச்சியில் டாக்டர். பி. பெரியசாமி (NSS COORDINATOR), திரு. ஆர். நிர்மலா (NSS), திரு. S.உதயகுமார் மற்றும் திரு. மேத்யூ (டாக்டர். ஏ.பி.ஜே. அப்துல் கலாம் 2021 டிரிம் டிரஸ்ட் ஆகியோர் கலந்து கொண்டனர் சிறப்பித்தார்கள். மேலும் தேனி நித்யானேந்தம் (கண்ணப்பாளையம்வார்டு உறுப்பினர்), மற்றும் ஜமுனா (அரசு பள்ளித் தலைமையாசிரியை கண்ணப்பாளையம் கிராமம் ஆகியோர் கலந்து கொண்டு சிறப்பித்தார்கள்.

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