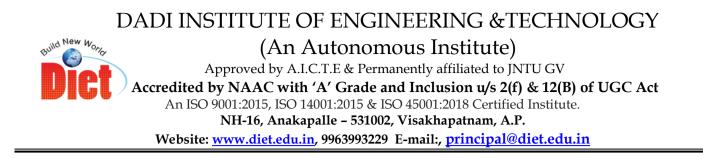


A report on two-day workshop session on "Demo Day: Energy Conservation Innovations by Startups and Incubators"

The Department of Electrical and Electronics Engineering of Dadi Institute of Engineering & Technology- Autonomous and Institution's Innovation Council in association with DIET ISTE Student Chapter conducted two-day workshop session on "Demo Day: Energy Conservation Innovations by Startups and Incubators" on 8th August to 9th August 2024 at LH-32 in the institute premises. This Workshop gave insights on recent innovations in Energy Conservation, provided a platform for brilliant minds to unveil groundbreaking technologies and solutions. The event brought together engineers, innovators, offering a glimpse into the Energy Conservation. This report outlines some of the remarkable advancements presented during this captivating exhibition.



Poster of the Demo Day: Energy Conservation Innovations by Startups and Incubators

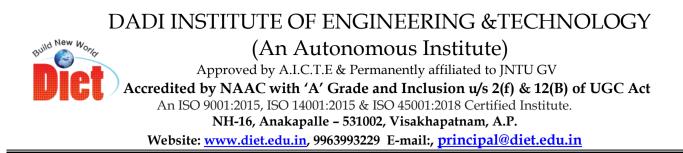


The 2 days workshop started with an Inauguration event by Dr. S Ramana Kumar Joga, IIC Coordinator, DIET, Mrs. P Sravana Lakshmi, (E-Club Coordinator-EEE) and other faculty members and students.



Dr. S Ramana Kumar Joga, IIC Coordinator, DIET inaugural speech

The "Demo Day: Energy Conservation Innovations by Startups and Incubators" was organized to showcase the latest advancements and innovative solutions in energy conservation. This event brought together a diverse group of startups, incubators, industry experts, investors, and government representatives, all focused on driving sustainable energy practices. The objective of the Demo Day was to provide a platform for emerging startups to present their cutting-edge technologies and solutions aimed at reducing energy consumption, optimizing resource usage, and promoting sustainable development.



Objectives

- Showcase Innovations: To provide startups and incubators with an opportunity to present their innovative solutions in energy conservation.
- Encourage Collaboration: To foster collaboration between startups, investors, and industry leaders for the commercialization and scaling of these innovations.
- **Promote Sustainable Practices:** To highlight the importance of energy conservation and encourage the adoption of sustainable practices across various industries.

Key Highlights

1. Diverse Range of Solutions:

- The Demo Day featured a wide array of energy conservation innovations, including smart grid technologies, energy-efficient appliances, renewable energy integration solutions, and advanced energy management systems.
- Startups presented innovative products designed to optimize energy consumption in residential, commercial, and industrial settings. These included smart thermostats, energy-efficient lighting systems, and AI-driven energy management platforms.

2. Impactful Presentations:

- Each startup was given a dedicated time slot to present their innovation, followed by a Q&A session with the audience.
- Presentations highlighted the unique selling points of each solution, including potential energy savings, environmental benefits, and cost-effectiveness.
- Real-world case studies were shared, demonstrating the effectiveness of these innovations in reducing energy consumption and lowering operational costs.

3. Panel Discussions and Keynote Speeches:

- The event featured panel discussions with industry experts and policymakers, focusing on the challenges and opportunities in the energy conservation sector.
- Keynote speeches were delivered by thought leaders in the energy industry, emphasizing the need for innovation in addressing the global energy crisis and achieving sustainability goals.

4. Networking and Collaboration Opportunities:

- The Demo Day provided ample networking opportunities for participants, facilitating connections between startups, investors, and industry stakeholders.
- Incubators and accelerators were actively engaged in discussions on how to support these startups in scaling their innovations and bringing them to market.

5. Awards and Recognitions:

- At the conclusion of the event, awards were presented to the most promising startups based on criteria such as innovation, impact, scalability, and potential for commercialization.
- Special recognition was given to startups that demonstrated significant progress in energy conservation and had the potential to make a substantial impact on the industry.





Faculty Participation in the Event

Notable Innovations

1. Waste to Energy Generation Startup:

• Several startups introduced AI-driven platforms that monitor and optimize energy usage in realtime. These systems are designed to reduce energy waste and improve efficiency in both residential and commercial buildings.

2. Renewable Energy Integration:

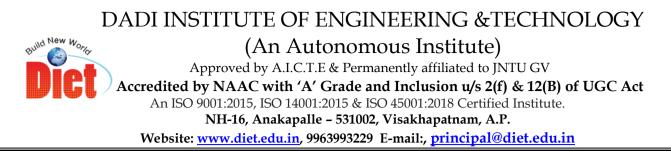
• Innovations in integrating renewable energy sources, such as solar and wind, into existing power grids were showcased. These solutions aim to increase the share of renewables in the energy mix while ensuring grid stability.

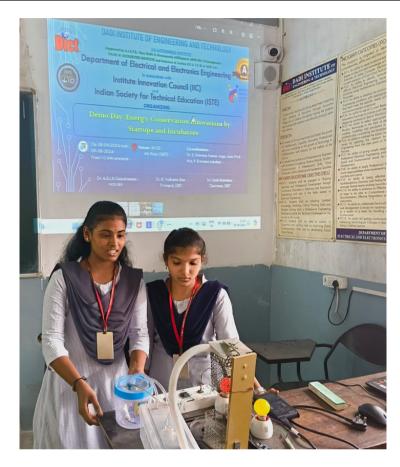
3. Energy-Efficient Appliances:

• Startups presented next-generation appliances that consume significantly less energy without compromising performance. These included energy-efficient HVAC systems, refrigerators, and lighting solutions.

4. Battery Storage Solutions:

Innovations in energy storage, particularly in battery technologies, were highlighted. These solutions focus on storing excess energy generated from renewable sources for later use, thus enhancing energy reliability and reducing dependence on fossil fuels.





Waste to Energy Conversion Startup







Students Participation in the Event



Attendance: 52 Students

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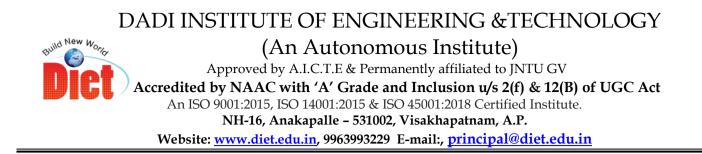


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Conclusion

The "Demo Day: Energy Conservation Innovations by Startups and Incubators" successfully showcased the potential of emerging technologies to drive energy efficiency and sustainability. The event highlighted the critical role of innovation in addressing global energy challenges and emphasized the importance of collaboration between startups, investors, and industry leaders. The showcased innovations demonstrated the potential to significantly reduce energy consumption, lower costs, and contribute to a more sustainable future. As these startups continue to develop and scale their solutions, they hold the promise of making a lasting impact on the energy sector and the environment.

Recommendations

- **Support for Startups:** Continued support for startups through funding, mentorship, and incubation programs is essential to bring these innovations to market.
- **Policy Advocacy:** Policymakers should create favourable regulations and incentives to encourage the adoption of energy-efficient technologies.
- **Industry Collaboration:** Increased collaboration between industry players can help accelerate the deployment of these innovations on a larger scale.
- **Public Awareness:** Raising awareness about the benefits of energy conservation and the availability of innovative solutions can drive demand and adoption.

IIC Coordinator

(Dr. S Ramana Kumar Joga)