

DADI INSTITUTE OF ENGINEERING & TECHNOLOGY (An Autonomous Institute)



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NH-16, Anakapalle - 531002, Visakhapatnam, A.P.

Website: www.diet.edu.in, 9963993229 E-mail: principal@diet.edu.in

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.

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Department of Electrical and Electronics Engineering
In association with
Institute Innovation Council (IIC)
and
Indian Society for Technical Education (ISTE)
ORGANIZING

Demo Day: Energy Conservation Innovations by Startups and Incubators

On 08-08-2024 and 09-08-2024
From 10 AM onwards

Venue: LH-32
4th Floor (DIET)

Co-ordinators:
Dr. S. Ramana Kumar Joga, Asst. Prof.
Mrs. P. Sravana Lakshmi

Dr. A.S.L.K.Gopalamma
HOD-EEE

Dr. R. Vaikunta Rao
Principal, DIET

Sri Dadi Ratnakar
Chairman, DIET

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

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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.

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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.

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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 real-time. 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.

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Waste to Energy Conversion Startup



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Students Participation in the Event

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Attendance: 52 Students

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Attendance: 52 members

S. No.	HT. No	Student Name	Signature
1	22U41A0201	BANDARU TEJESWI	B. Tejeswi
2	22U41A0202	BONDA LIKITHA	B. Likitha
3	22U41A0203	BUDDHA OM SAI VASANTHI	B. Vasanthi
4	22U41A0204	DULAM DEVI SRI PRASAD	D. Devini Prasad
5	22U41A0205	DULLA VANAJA	D. Vanaja
6	22U41A0206	DWARAPUREDDI SURIBABU	D. Suribabu
7	22U41A0207	GALLA BHARGAV	G. Bhargava
8	22U41A0208	GURRALA. PAVANI	G. Pavani
9	22U41A0209	KOLATA PRABHAS VENKATA SAI	K. Prabhas
10	22U41A0210	MAJJI SHANMUKH NAIDU	M. Shanmukh Naidu
11	22U41A0211	MALLA SUKUMAR ARJUN	M. Sukumar Arjun
12	22U41A0212	MOLLI MOUNIKA	M. Mounika
13	22U41A0213	MUCHUPALLI SAI	M. Sai
14	22U41A0214	NETALA JHANSI	N. Jhansi
15	22U41A0215	PADALA MANOJ	P. Manoj
16	22U41A0216	PANDALA HEMALATHA	P. Hemalatha
17	22U41A0217	PATTI YELLARAO	P. Yellarao
18	22U41A0218	RAYAVARAPU ABHIRAM	R. Abhiram
19	22U41A0219	REKHA DHARMENDRA	R. Dharmendra
20	22U41A0220	SAIDALA REVANTH KUMAR	S. Revanth Kumar
21	22U41A0221	SHYAM RAJU REDDY M	M. Shyam Raju
22	22U41A0222	VADDI KARTHIK	V. Kartik
23	22U41A0223	VEPADA PAVANI	V. Pavani
24	22U41A0224	VILLURI KIRTHANASRI	V. Kirthanasri
25	22U41A0225	VALLAPU NIBARIKA	V. Nibarika

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26	22U41A0226	YELLAPU DHANUSH	<i>Y. Dhanush</i>
27	23U45A0201	ADARI KUMANIKA SUSHMA	<i>A. sushma.</i>
28	23U45A0202	ADARI PUSHPA RAJU	<i>A. Pushpa Raju</i>
29	23U45A0203	ALLA VENKATA YOSHITHA	<i>Y. Yoshitha</i>
30	23U45A0204	ARAVA YESHWANTH	<i>A. Yeshwanth</i>
31	23U45A0205	ATAVA VINAY KUMAR	<i>A. Vinay Kumar</i>
32	23U45A0207	CHIKKALA UDAY KIRAN	<i>Chikkala Uday Kiran</i>
33	23U45A0209	DWARAPUDI PAVAN KUMAR	<i>Dwarapudi Pavan Kumar</i>
34	23U45A0210	GEDDADA VENKATA SAI RAM	<i>G. Venkata Sai Ram</i>
35	23U45A0211	KARNAM AKHILA	<i>K. Akhila</i>
36	23U45A0212	KATHA BHARATH SAI	<i>K. Bharath Sai</i>
37	23U45A0213	KONA SURYA PRAKASA RAO	<i>K. Surya Prakasa Rao</i>
38	23U45A0214	MATCHA KARTHIK	<i>M. Karthik</i>
39	23U45A0215	MINDI JAGADEESH	<i>Jagadeesh M. Minda</i>
40	23U45A0217	MOTHUKURI SAI PRAKASH	<i>M. Prakash</i>
41	23U45A0218	PALLELA JAGAN DATTA	<i>P. Jagadatta</i>
42	23U45A0219	PILLA JANARDHAN KUMAR	<i>P. Janardhan</i>
43	23U45A0220	SALAPU JAHNAVI	<i>S. Jahnavi</i>
44	23U45A0221	SAPPA CHANDINI	<i>S. Chandini</i>
45	23U45A0222	SARAGADAM VAMSI	<i>S. Vamsi</i>
46	23U45A0223	SIMMA RAMYA	<i>S. Ramya</i>
47	23U45A0224	SWAYAMVARAPU MANIKANTA	<i>S. Manikanta</i>
48	23U45A0225	TAGARAMPUDI YAGNA PRAKASH	<i>T. Y. Prakash</i>
49	23U45A0226	VEMULAPUDI VENKAT JASWANTH	<i>V. Jaswanth</i>
50	23U45A0227	YEDDU RAMU	<i>Y. Ramu</i>
51	23U45A0228	R SAMUEL RAJ	<i>R. Samuel Raj</i>
52	23U45A0229	K CHARAN SRI	<i>K. Charan Sri</i>

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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)