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### **Report** Alumni Guest Lecture On

"Career Pathways in the Energy Industry: From Graduate to Industry Leader"
Organised by Department of Electrical & Electronics Engineering

Date: 13.03.2025 Time: 10.30 AM Venue: WB220

Organized in association with: Alumni Welfare Association & IIIC, MITS-Madanapalle

<u>Submitted by:</u> Mr. M. Venkatesh, Dept. Alumni Coordinator & Assistant Professor, Dept. of EEE

Attendance: 60 participants including faculty. Faculty attended:

1. Dr A V Pavan Kumar - HoD/EEE

Mr. M. Venkatesh
 Dr.R.Kiran Kumar
 EEE Dept. Alumni Coordinator
 Alumni Relationship Officer

**Students Attended: EEE: 57** 

Recorded Link: https://llnq.com/DZlxd

Venue: WB220

The program began at 10:30 AM with a warm welcome address to all participants and the resource person, Mr. Akkenaguntla Karthik, Energy Markets Analyst at ICF, Bengaluru, Karnataka, by Dr. A.V. Pavan Kumar, Head of the Department, Electrical and Electronics Engineering (EEE) at MITS, Madanapalle.

Following the welcome, a brief introduction to the resource person was provided by Mr. M. Venkatesh, Assistant Professor in EEE. After this, the session was handed over to Mr.Akkenaguntla Karthik, Energy Markets Analyst in ICF, Bengaluru, Karnataka.

**Mr.A. Karthik** began his session by expressing his heartfelt gratitude to the participants, the organizing team, Dr. A.V. Pavan Kumar, the Head of Department, the Principal, and the Management of MITS Madanapalle for the opportunity to share his insights and experience on **"Career Pathways in the Energy Industry**".

The resource person covered a range of topics related to career pathways in the energy industry, with a focus on data analysis tools, energy simulation software, and industry-standard programming languages. He emphasized the importance of tools like:

- 1. MATLAB: Used for simulations, modelling, and data analysis in energy systems.
- **2. HOMER Energy:** A software tool for optimizing the design of microgrids and integrating renewable energy sources.
- **3. PVsyst:** A tool for solar energy system design and analysis, crucial for careers in the renewable energy sector.
- **4. Simulink:** For dynamic modelling of electrical systems, including power generation and distribution.



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**5. EnergyPlus:** A simulation software for energy modelling in buildings, which is critical for energy efficiency and sustainable building design.

**Mr. A. Karthik** started by discussing the foundational skills required to secure a job in core energy industries, followed by strategies for sustaining and advancing careers in this ever-evolving field.

The following topics were interacted with students to update their basic skill sets to meet the corporate requirement.

- 1. Overview of the Energy Industry
- 2. Career Pathways in the Energy Sector
- 3. Energy modelling
- 4. Techno-Economic optimization models
- 5. Forecasting and machine learning
- 6. Energy modelling software
- 7. Corbon markets
- 8. Environmental social and governance
- 9. Technological Innovations and Future of Energy Careers
- 10. Career Development Strategies
- 11. Opportunities in Emerging Markets
- 12. Case Studies and Success Stories

#### **Program outcome:**

- 1. Graduates gained a deeper understanding of career opportunities, trends, and innovations in the energy sector, including the shift to renewable energy and the impact of digital transformation.
- 2. Attendees learned about essential skills and qualifications needed in the industry, as well as the importance of continuous learning, mentorship, and networking for career growth.
- 3. Real-world examples of industry leaders inspired graduates, showcasing potential career paths and the value of resilience, adaptability, and strategic decision-making.
- 4. The event facilitated connections between graduates, alumni, and industry professionals, promoting valuable relationships and future career opportunities.
- 5. Attendees developed interest in new energy sectors such as sustainability, renewables, and tech-driven careers, highlighting the growing demand for skilled professionals in these areas.
- 6. The event emphasized the importance of diversity in the energy sector, encouraging graduates to contribute to creating more inclusive and innovative industry environments.

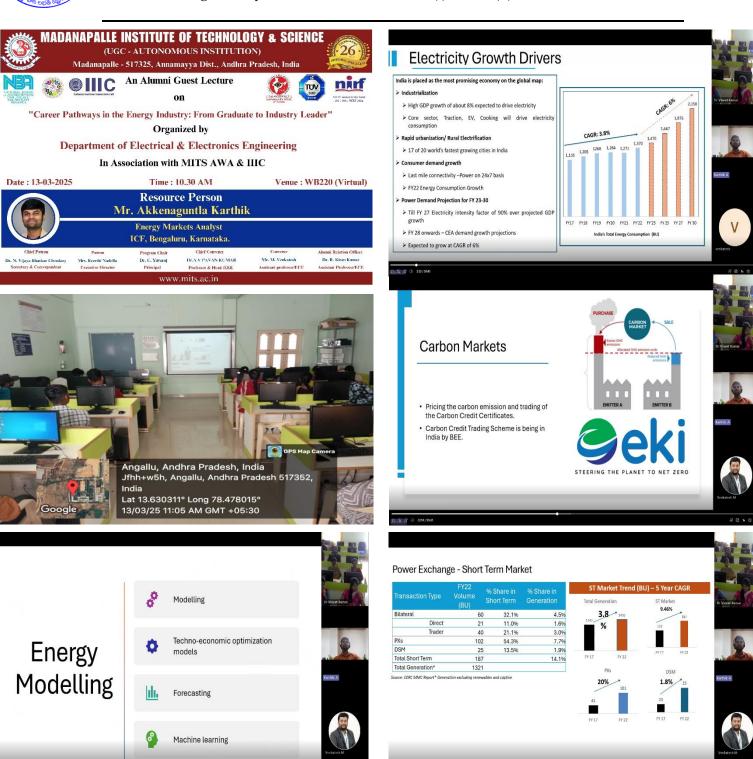
The session concluded with the vote of thanks given by **Mr.M. Venkatesh**, **AP/EEE**. I would like to take this opportunity to thank the Management, Principal, Vice-Principals, HOD and all the people who directly and indirectly involve in organizing this event.

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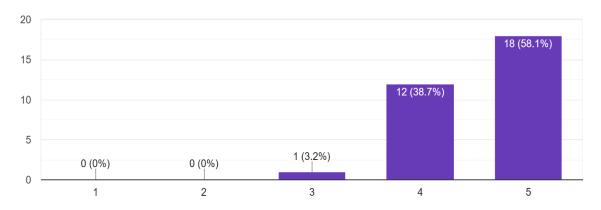






#### Feedback:

- 1. The interactive session was scheduled at a suitable time
- 31 responses



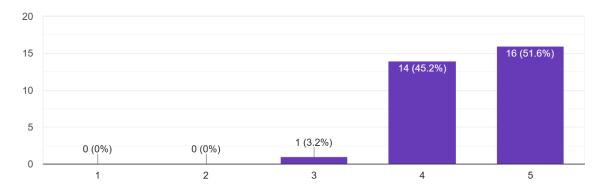


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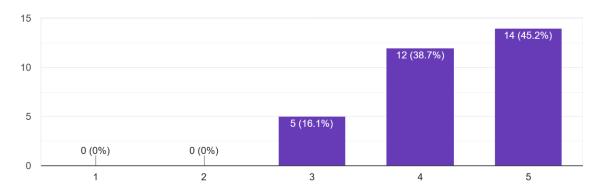
2. The interaction was useful and resource person explanation.

#### 31 responses



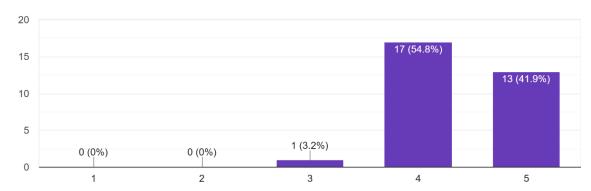
3. The information in the interaction was presented in a clear and organized manner.

#### 31 responses



4. The presenter responded to questions an informative, appropriate and satisfactory manner.

#### 31 responses



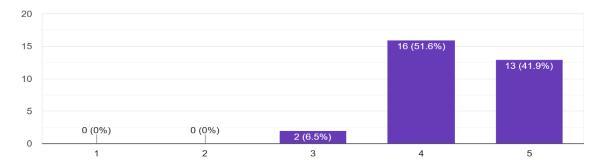


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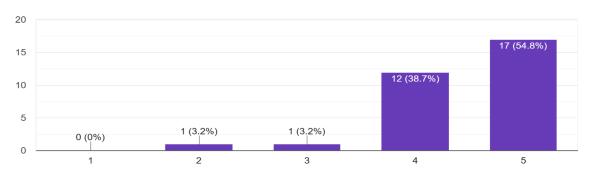
5. your impression of facilities provided by the institute for interaction.



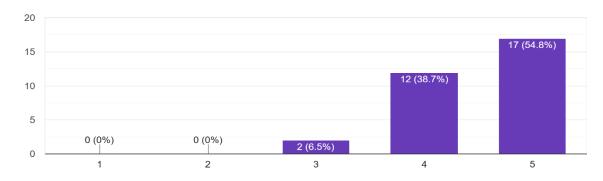


6. Overall, the session was informative and valuable.

#### 31 responses



7. In what ways could this interaction have been improved to better suit your needs? 31 responses



M. Afficia

Signature of the Coordinator

Paray

Signature of HoD, EEE