



AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD
Department of Electrical & Electronics Engineering
IEEE Technically C0-Sponsored 3rd International Conference on Advancements and Key Challenges in
Green Energy and Computing (AKGEC2026)
Conference Report (26th -28th February 2026)

1. Brief conference closing report: IEEE Third International Conference on Advancements and Key Challenges in Green Energy and Computing.

The conference commenced on **26th February** with the ceremonial **lamp lighting** by the conference dignitaries, including the Chief Guest **Shri Mohit Bhargava Ji, Former CEO, NTPC REL, Honorary General Chair Prof. S. N. Singh**, and the **International Keynote Speaker Dr. Kalyan K. Sen**, along with the Institute's Advisor Prof Amita Dev, Director Dr. Hemant Ahuja, Heads of various Departments, and other esteemed dignitaries.

The inaugural programme began with a brief introduction to the conference theme by program MC Ms. Navjyoti Sharma, followed by an address by the **Advisor Prof. Amita Dev**, in which she emphasized the rapidly increasing power consumption by data centers and highlighted sustainable and energy-efficient approaches to address this challenge. This was followed by the **conference preface**, outlining the vision and journey of AKGEC2026.

The **Chief Guest, Shri Mohit Bhargava Ji**, spoke about the energy transition during his tenure at NTPC, highlighting the shift from coal-based power generation to renewable energy-based systems. The **Honorary General Chair, Prof. S. N. Singh Sir**, shared his insights on green energy and green computing, emphasizing that computing systems of the future must also be environmentally sustainable.

The **International Keynote Speaker, Dr. Kalyan K. Sen**, shared his inspiring professional journey and highlighted the importance of simplicity, values, and the fact that many important things in life are free. The inaugural session was followed by a **networking tea**, after which the **technical keynote addresses** were delivered by **Dr. Kalyan K. Sen** and **Dr. V. S. K. Murthy Balijepalli**. The end of inaugural session also marked the inauguration of IEEE SSIT Chapter of the IEEE UP Section.

Dr. Kalyan K. Sen delivered his keynote on **“Opportunities and Challenges in Power Flow Control in a Modern Grid”**, while Dr. V. S. K. Murthy Balijepalli spoke on **“Next-Generation Green Energy Systems: AI-Driven Optimization, Digital Twins, and Grid-Integrated Sustainability.”**

Post-lunch hours were dedicated to **technical paper presentations**, conducted across **six parallel tracks** at various conference venues.

The **second day** began with the **second international keynote address** by **Prof. Akshay K. Rathore, Professor, NUS Singapore**, on **“Advanced Engineering in Implementing Connected Vehicles and Infrastructure.”** This was followed by a keynote address by **Shri Venkateshan M., General Manager (Market Operations), Grid-India**, on **“Grid Management in the Era of Energy Transition.”**

After the keynote addresses **five technical sessions** were held at different venues. The post-lunch session featured a **well-curated panel discussion** on the theme **“Energy Transition: EVs, Infrastructure, and Innovations.”** The panel brought together experts from diverse domains, including **Dr. Ishan Sharan (Central Electricity Authority)**, **Dr. Jivan Jethani (MNRE)**, **Mr. Hemant Chauhan (Schneider Electric)**, **Dr. Ashish Shrivastava (Skill University Palwal)**, and **Mr. Pradeep Agarwal (BSES Utility)**. The session was expertly moderated by **Dr. Shivani Sharma, Principal Technical Consultant, Hitachi Energy**. The panel discussion enabled a meaningful dialogue on policy, technology, infrastructure challenges, and collaborative pathways for accelerating the energy transition.

The **third day** started with a highly informative session by **Dr. Ayman El Rafie**, President IEEE IAS on **IEEE Industry Applications Society activities**, followed by a very inspiring and engaging **Women in Engineering Keynote Session** by **Mrs. Sangeeta Kaushik, Former Executive Director, NTPC**. This



was followed by the **Women in Engineering NCR Region Meet and Greet Program** and another technical keynote session by **Prof. Prabhakar Tiwari**, on **Energy Conservation and Achieving SDG-7**.

The final slot of the conference featured **four parallel technical presentation sessions**, concluding the technical deliberations of the conference.

Over the course of these **three days**, a total of **144 research papers** were successfully presented. With this, we arrive at the **concluding ceremony** of the **three-day International Conference AKGEC 2026**, marking a successful platform for knowledge sharing, collaboration, and innovation in the domains of green energy and computing.

The valedictory Session was graced by chief guest **Shri P C Garg, Principal Advisor, NSEFI**, **Dr. Mohd. Rihan, DG NISE** and **Mr. Arindam Lahiri, CEO ASDC** as Guests of Honour. **Dr Hemant Ahuja**, Director AKGEC Ghaziabad.

Shri P. C. Garg, a power sector veteran and **Principal Advisor at NSEFI**, highlighted the benefits of adopting solar energy. He emphasized that solar installations help avoid extensive transmission infrastructure, which is both time-consuming and challenging to erect.

Dr. Mohd. Rihan spoke about **IEEE and its role in fostering technological innovation and professional growth**. He also highlighted the concept of **Agri-solar**, emphasizing its potential in integrating renewable energy solutions with agricultural practices.

Mr. Arindam Lahiri spoke on the importance of **skill development and capacity building in enabling energy transitions and EV Adoption challenges**. He emphasized that a skilled workforce is essential for achieving long-term sustainable development goals.

Dr. Hemant Ahuja discussed the key challenges associated with the green energy transition and emphasized the motivation behind establishing this conference series. He highlighted how the platform aims to address emerging technological, policy, and sustainability concerns through focused deliberations.

The conference also observed an **IEEE SSIT stall** during all three days, which was managed by **Dr. Kalyan K. Sen, President-Elect (2025–26), IEEE SSIT**, with the support of student volunteers.

The papers were presented by authors from the following countries and Indian states:

Countries: USA, Rome, Nigeria and Oman

Indian States: Assam, Chandigarh, Delhi, Haryana, Jammu, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Tamil Nadu, Telangana, Uttar Pradesh, Uttarakhand.

The detailed report will be submitted well within one month.