

Report on 2-Day Symposium on  
**“Renewable Generations and Integration Aspects for Sustainable Energy  
Mission”**

Organized by

Department of Applied Physics, University of Calcutta

In collaboration with the Applied Physics Alumni Association

Under the auspices of the Centenary Celebration of the Department of Applied Physics

Venue: Dr. Meghnad Saha Auditorium, Rajabazar Science College Campus, University of Calcutta

Date: 26 & 27 October 2024

This symposium serves as a platform for professionals, researchers, and enthusiasts to explore advancements in renewable energy technologies and their integration into modern power systems. As the world transitions towards cleaner and more sustainable energy solutions, understanding the challenges and opportunities of renewable energy integration becomes crucial.

At the outset the Head of the Department Prof. Kaushik Das Sharma welcome the audience and explain the significance of organizing such a symposium under the auspices of Centenary Celebration of Department of Applied Physics. After that Chief Guest Dr. Santi Pada Gon Chaudhuri, Honorary President, NBRIT Kolkata addressed the audience and elaborated the current scenario of sustainable energy. Our Special Guest Shri Pankaj Kumar, Executive Director, IOCL, India addressed the audience and discussed about the role IOCL in making the nation carbon free. Then Prof. Dipak Chandra Patranobis, President of Centenary Celebration Advisory Committee highlighted the role of the budding engineers and technologist in making the sustainable energy options. Finally, Prof. Rajarshi Gupta gave the vote of thanks to the dignitaries, speakers, audience, sponsors and other vendors and supplies for their relentless support to make the symposium a success.

In the technical sessions during the 2 days symposium, the distinguished speakers across the globe shared their views on this very topic and inspired the audience by their visions. The names and lecture titles of the speakers are as follows:

Prof. Joydeep Mitra, Michigan State University, USA

Title of the lecture: “Increasing Renewable Integration: Challenges and Viable Strategies”

Prof. Zakir Rather, Indian Institute of Technology Bombay, India

Title of the lecture: “Challenges of Large-Scale Renewable Energy Integration-Global and Indian Power System Perspective”

Prof. Prabir Barooah, Indian Institute of Technology, Guwahati, India

Title of the lecture: “Renewable integration without batteries”

Mr. Alok Singh, IOCL, India with a contemporary title on green energy resources

Prof. A. Vadivel Murugan, Pondicherry University, India

Title of the lecture: “Recent Research Trend and Perspectives of Sustainable Energy Storage Battery for Renewable Energy Generation and Integration in India”

Mr. Prabir Kumar Bhattacharyya, Ernst & Young India

Title of the lecture: “Net Zero: Steel Production and the Indian Context”

There were 180 participants on the first day and 150 on the second day of this symposium. A large number of students from Applied Physics and other institutes were present in the audience and had extensive interactions with the eminent speakers.



Symposium Welcome address by Prof (Dr) Kaushik Das Sharma, HOD, Applied Physics



Address of Chief Guest “Solar Man” Dr.Sakti Pada Gan Chaudhuri, a veteran in the field of Renewable Energy



Speaker – Prof. Joydeep Mitra of Michigan University delivering his lecture as captured.



Speakers enjoying their best times during Symposium having lunch with Alumni –Professors interactive session