

## Message from Conference Chair



Dear Participants,

Welcome to the 2023 IEEE PES 15th Asia-Pacific Power and Energy Engineering Conference (APPEEC 2023) in Chiang Mai, Thailand! As the Conference Chair, I am delighted to have you all join us for this significant event.

Our theme, "Transition towards Carbon Neutrality, Sustainability, and Flexibility for Future Energy," reflects the collective effort of the energy and power community, including the IEEE PES Thailand Chapter, in driving the world towards a sustainable and carbon-neutral future. Together, we are working towards achieving ambitious goals and implementing strategies that will have a lasting impact on our environment.

APPEEC is recognized as the leading international platform for the presentation and discussion of advancements in research, development, and applications within the field of power and energy engineering. Over the past 15 years, the

conference has been successfully organized annually by the IEEE Power & Energy Society, hosted at various locations worldwide. In the case of APPEEC 2023, the conference is being hosted by the IEEE Power & Energy Society Thailand Chapter, in collaboration with the Thailand Convention and Exhibition Bureau (TCEB). Additionally, significant support is being provided by major electricity and energy utilities, including the Electricity Generating Authority of Thailand (EGAT), the Metropolitan Electricity Authority (MEA), the Provincial Electricity Authority (PEA), and the PTT Public Company Limited. Their involvement underscores the importance and relevance of APPEEC 2023 within the power and energy industry.

I would like to express my heartfelt appreciation to the organizing committee, EEAAT, and the Faculty of Engineering at Chiang Mai University for their exceptional efforts in managing this conference. Their dedication and hard work have been vital in ensuring a successful and enriching experience for all participants.

The success of APPEEC 2023 is primarily attributed to the invaluable contributions of the authors who have submitted and presented their papers at the conference. We would also like to extend our gratitude to the technical and financial supporters, exhibitors, and all participants who have played a significant role in making this event possible.

Throughout APPEEC 2023, we have curated a diverse program of presentations, workshops, and panel discussions that cover a wide range of topics in power and energy engineering. This conference serves as a valuable platform for researchers, professionals, and industry experts to share their latest findings, exchange insights, and foster collaborations that will shape the future of our field.

I encourage all participants to actively engage in the sessions, ask questions, and take advantage of the networking opportunities available. It is through these interactions that innovative ideas are born, partnerships are forged, and progress is made.

Once again, welcome to APPEEC 2023. We hope that your time here will be intellectually stimulating, inspiring, and rewarding. Let us seize this opportunity to explore new horizons, contribute to the advancement of our field, and work towards a sustainable and resilient energy future.

Thank you, and enjoy the conference.

### APPEEC2023 Conference Chair

**Nopbhorn Leeprechanon** - Vice Chair (Meeting & Conference), IEEE PES Thailand Chapter