Preface

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It is with great pleasure that I present the new volume of the *International Journal of Power and Energy Conversion* (*IJPEC*), Volume 16, Issue 1, for the year 2025. Once again, this volume reflects the journal's ongoing commitment to promoting high-quality research in the fields of energy science and power conversion technologies, thus contributing to global scientific and technical advancement.

The articles in this issue cover a variety of topics that are of crucial importance to current energy research. Among them are studies on the optimisation of hybrid renewable energy production systems, strategies for managing distribution networks integrating photovoltaic consumption, and innovative solutions for reducing greenhouse gas emissions, such as the use of biomass. Each contribution highlights innovative approaches and rigorous methodologies, underscoring the journal's leading role as a conduit for knowledge and applicable solutions to global energy challenges.

IJPEC plays a key role in disseminating scientific, technical, and industrial advances in the energy sector. By providing an open and rigorous platform, we contribute to creating a constructive dialogue between researchers, engineers, and industry professionals to meet the growing need for sustainable energy and the imperatives of reducing environmental impacts.

I would like to express my deepest gratitude to all the teams involved in the publication of each issue, especially the editorial board and production teams, for their unwavering commitment. Heartfelt thanks also to the authors for the quality and relevance of their work, and to the reviewers for their critical and constructive contributions, which are essential to maintaining the scientific rigor of our journal.

I wish you an enriching reading experience of this new volume and hope that the presented articles will continue to fuel research and innovation in the energy field.

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