

Preface

It is our pleasure to bring you the proceedings of the 3rd International Tropical Renewable Energy Conference 2018 (the 3rd i-TREC 2018). The 3rd i-TREC 2018 was proudly organized by the Tropical Renewable Energy Center – Faculty of Engineering Universitas Indonesia.

The 3rd i-TREC 2018, which was held in Bali, Indonesia from September 6 – 8, 2018, presented the theme of “Sustainable Development of Tropical Renewable Energy”. This conference gathered scientists, academicians, professionals, and students from around the world to expose, present, and disseminate their research works in the tropical renewable energy areas.

The 3rd i-TREC 2018 covered four symposia topics: smart grid and regulation, bioenergy, multifunctional and advanced material, and eco tropical built environment. The conference successfully invited five notable keynote speakers: Prof. Jeffrey W. Fergus (Auburn University, USA), Assoc. Prof. Nasruddin (Universitas Indonesia, Indonesia), Prof. kunio Yoshikawa (Tokyo Institute of Technology, Japan), Assoc. Prof. Lee D. Wilson (University of Saskatchewan, Canada), and Assoc. Prof. Geoffrey Walker (Queensland University of Technology, Australia). In addition, we also successfully brought five invited speakers: Assoc. Prof. Volkan Degirmenci (University of Warwick, UK), Dr. Andy Noorsaman Someng (Head of BPH Migas, Republic of Indonesia), Assoc. Prof. Anwar Usman (Universiti Brunei Darussalam, Brunei Darussalam), Dr. Mazidah Binti Mamat (Universiti Malaysia Terengganu, Malaysia), and Prof. I Nyoman Suprpta Winaya (Universitas Udayana, Indonesia).

This volume of proceedings consists of 192 peer-reviewed papers, out of 312 submitted papers, which are divided based on the symposia topics. The papers have been presented by the authors who came from various countries such as Australia, Canada, Indonesia, Japan, Malaysia, Singapore, Thailand, UK, and USA.

The committee would like to thank our co-hosts: Universiti Teknologi Mara, Malaysia and Universitas Udayana, Indonesia. We would like to extend our thank to the sponsors that made this conference possible: Kantor Pengelolaan Produk Riset & Inovasi Universitas Indonesia, PT. Wijaya Karya, CEP-CCIT Universitas Indonesia, P2M Departemen Teknik Mesin Universitas Indonesia, and BNI. Finally, we thank all the committees for their hard work.

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