

Preface

EESD series provides a forum for accessing to the most up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of energy and environment. The First International Conference on Energy, Environment and Sustainable Development (EESD2011) was held in Shanghai, China, between October 21 and 23, 2011 with the participation of scientists from the Asia-Pacific region, Europe and the United States. Following the success of the inaugural conference, the 2012 International Conference on Energy, Environment and Sustainable Development (EESD 2012) took place in Jilin, China, October 12-14, 2012. The third conference EESD 2013 was held in Shanghai, November 12-13, 2013. This event was organized by Shanghai University of Electric Power and Shanghai Normal University. The conference program covered invited, oral, and poster presentations from scientists working in similar areas to establish platforms for collaborative research projects in this field. This conference brought together academicians, researchers, engineers, policy makers, governmental officials, end users, and people involved in the energy and environmental industries and provided a platform to the participants to present their papers, share their expertise, establish new contacts, and discuss a range of energy and environmental technologies for sustainable development.

This book contains the selected accepted manuscripts from the subject areas of Development and Utilization of Solar Energy, Development and Utilization of Wind Energy, Development and Utilization of Biomass Energy, Energy Storage Technology, Energy Consumption and Energy-Saving Technology, Hydrogen and Fuel Cell, Energy Materials, Energy Chemical Engineering, New Energy Vehicles and Electric Vehicles, Green Building Materials and Energy-saving Buildings, Engineering Thermophysics, Thermal Engineering, Fluid Engineering and Machinery, HVAC, Air Conditioning and Refrigeration, Power Machinery and Engineering, Power System and Automation, High Voltage and Insulation Technology, Motor and Electric Equipment, Electrical Theory and New Technology, Power Electronics and Power Drives, Smart Grid Technologies, Power System Management, etc. This book provides new information/ methods on possibilities of managing the energy crisis and protecting the environment sustainably in the growing economies to the broader public, especially students and researchers who are interested to involve in the research in this area.

We express our gratitude to the members of the International Scientific Committee for their significant support in organizing the Conference and for reviewing the papers of the participants. We are also grateful to the all invited reviewers as well as to the participants.

The editors

The 3rd International Conference on
Energy, Environment and Sustainable Development
(EESD 2013)

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