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 EESD2011 was held in Shanghai, the second EESD2012 in Jilin, China and the third EESD 2013 was held in Shanghai. The fourth conference EESD2014 was held in Nanjing, October 25-26, 2014 and was organized by Jiangsu University of Science and Technology and Shanghai University of Electric Power. 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 Biomass Energy; Development and Utilization of Wind Energy; Nuclear Energy and Other Energy; Energy-Saving and Energy-Storage Technology; Energy Chemical Engineering, Energy Materials and Fuel Cell; New Energy Vehicles and Electric Vehicles; Power System and Automation; High Voltage and Insulation Technology; Motor and Electric; Electrical Theory, Power Electronics and Power Drives; Smart Grid Technology; Power Systems Management; Engineering Thermodynamics and Thermal Engineering; Power Machinery and Engineering; Fluid Machinery and Engineering; HVAC, Air Conditioning and Refrigeration ; Equipment Design, Manufacturing and Automation; Green Building Materials, Energy-Efficient Buildings and Construction Technology; Demand, Supply, Development, Management of Energies and Resources; Computer Applications and Mathematical Modeling; Engineering Education, Engineering Management and Project 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
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