

1. Record Nr.	UNINA9910812878103321
Titolo	Sustainable energy : selected, peer reviewed papers from the 2013 2nd International Conference on Sustainable Energy and Environmental Engineering (ICSEEE 2013), 28-29 December, 2013, Shenzhen, China / / edited by Seung-Bok Choi, Fauziah Shahul Hamid and Liyuan Han
Pubbl/distr/stampa	Zurich, Switzerland : , : TTP, , 2014 ©2014
ISBN	3-03826-402-4
Descrizione fisica	1 online resource (890 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 521
Disciplina	621.042
Soggetti	Renewable energy sources Environmental engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Sustainable Energy; Preface and Conference Organization; Table of Contents; Chapter 1: Development and Utilization of Solar Energy; An Indirect Air Cooling System with Compound Refrigerating Cycle for CSP Plants; Analysis of the Influence of Environment Parameters on Grid-Connected Photovoltaic System; Experimental Investigation on Photothermal Properties of MWCNT-H ₂ O Nanofluids for Direct Absorption Solar Collectors; Heat Efficiency of Trough Solar Vacuum Receiver; Influence of Scattering Layer on the Performance of Solid-State Dye Sensitized Solar Cell Investigation on Antireflection Coatings for Silicon Solar Cells Energy Yield of Solar Panels in the System of their Position Control; Experimental Study on Solar Energy Added Kang Heating System; Experimental Analysis on the Performance of Regeneration of Solar Liquid Desiccant System under Different Operation Condition; Investigation on AR Techniques of Silicon Solar Cells; Research on Composite System of Solar Energy Reclaimed Water Heat Pump and Phase Change Energy Storage; Chapter 2: Development and Utilization of Biomass Energy On-Line Analysis of the Condensable Products of Biomass High

Temperature Pyrolysis Stress of Nutrients Deficiency on Growth and Lipid Accumulation in Oil-Rich *Navicula* sp.; Study on Preparation of Biodiesel with Monomer Acid; The Catastrophe Mechanism of Flashover in Biomass Boiler; The Bioenergy Plant Hybrid *Pennisetum* Improves Chilling Resistance by Enhancing the Unsaturation of Membrane Lipid under Low Temperature; Experimental Study on Edible Mushroom Bran Pyrolysis; Experimental Study on the Pyrolysis Characteristics of the Poplar Wood

Chapter 3: Development and Utilization of Wind Energy Effect of Wind Shear to Horizontal Axis Wind Turbine Aerodynamic; Numerical Investigation on Film Cooling Effectiveness of Stator Blade with Different Density Ratio; Acquisition Module Design of Fault Monitoring System of Wind Turbine; Characteristics of the Mean Wind Speed Based on Field Measurement at Aizhai Bridge Gorge; Investigation on Control Strategies to Smooth out Wind Farm Output Fluctuations Using Energy Storage System; Multivariate Linear Wind Speed Forecast Method Based on the SSA and WRF Model

Overview on Integration Characteristics of Offshore Wind Power Short Term Wind Speed Prediction Based on Linear Combination and Error Correction; Method of Wind Power Prediction Based on ANN and Improvements; Research on Equivalent Modeling of Double-Fed Wind Farm Study; The Optimized Charge-Discharge Strategy of EVs Considering the Fluctuation of Wind Power; Chapter 4: Power System and Power Automation; Transformer Selection Research Based on Blind Number Theory; Comprehensive Evaluation Based Selection Method for Power Transformer; Overview of Generator Out-of-Step Prediction Power Quality Analysis Software Based on LabVIEW

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 2 nd International Conference on Sustainable Energy and Environmental Engineering (ICSEEE 2013), 28-29 December, 2013, Shenzhen, China. The 167 papers are grouped as follows: Chapter 1: Development and Utilization of Solar Energy, Chapter 2: Development and Utilization of Biomass Energy, Chapter 3: Development and Utilization of Wind Energy, Chapter 4: Power System and Power Automation, Chapter 5: Insulation Technology, Reliability and Safety of Power Systems, Chapter 6: Smart Grid Technology, Chapter 7: Power Systems Management, Chapt
