

Journal of Clean Energy Technologies

CONTENTS

Volume 3, Number 2, March 2015

• Wind Energy

Study of Wind Turbine Aerodynamic Performance Using Numerical Methods.....83
S. Derakhshan and A. Tavaziani

Optimal Placing of Wind Turbines: Modelling the Uncertainty.....91
Timo Leenman and Frank Phillipson

High Winds at Nyg årdsfjell.....106
Muhammad Bilal, Yngve Birkelund, and Matthew Homola

• Bioenergy

Low Cost Modification Kit for Retrofitting on Small Diesel Engines to Run on Straight Vegetable Oils.....110
S. Jindal

Thermal Balancing of a Multi-Cylinder Diesel Engine Operating on Diesel, B5 and Palm Biodiesel
Blends.....115
M. J. Abedin, H. H. Masjuki, M. A. Kalam, A. Sanjid, and S. M. A. Rahman

Processing Carbon Rod from Waste of Zing-Carbon Battery for Biogas Desulfurizer.....119
Tjokorda Gde Tirta Nindhia, I. Wayan Surata, I. Ketut Adi Atmika, Dewa Ngakan Ketut Putra Negara, and I. Putu Gede Artana

A Contribution to the Debate on Reconciling Bioenergy for Biofuels and Food Security..... 123
Paulo C. Manduca, Mauro D. Berni, Rubens Lamparelli, Klaus G. Dalgaard, Luis A. B. Cortez, and Juan A. Ayarza

• Hydrogen Energy

Comparison of Different Catalysts for Fermentative Hydrogen Production.....128
Pornthip Wimonsong and Rachnarin Nitisoravut

Enhancement of Hydrogen Physisorption Energy by Lithium-Doped Carbon Nanotube: A First Principle Study
..... 132
Ir. Nasruddin, Engkos Achmad Kosasih, Supriyadi, and Ihsan Ahmad Zulkarnain

Production of Bio Fuel Using Green Algae..... 135
John Chigbo Onu

• Electric Energy

Computer Modeling of a Novel Mechanical Arrangement of a Free-Piston Stirling Engine.....140
S. Ghozzi and R. Boukhanouf

Research of Rebuilt and Application of Dust Collector in Coal-Fired Power Plants.....145
Qizhen Liu, Yanjing Sun, Lei Jia, Yihua Zhang, and Zhigang Shen

Improve Electricity Efficiency by Applying TRIZ.....149
Nikalus Shu Luing Swee, Mum Wai Yip, Chee Sheng Keong, See Chew Tai, and Guat Guan Toh

A Systematic Planning Method for the Electric Vehicles Charging Service Network.....155
Junhai Wang, Leijin Shan, Yongxia Dai, Lingling Ming, and Dayang Yu