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Sustainable and competitive business environment through green and renewable energy developments

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In the current competitive environment green and sustainable renewable energy is a critical enabler for economic, sustainable and inclusive development particularly in developing economy. This study was conducted with a literature review collecting data. Since in the literature data gathering different journal articles are reviewed regarding green economy, green and sustainable renewable energy development, the issue of climate change and worlds. Also the interview and life experiences are also included in the methodology. Due to globalization effect, firm competition, technological advancement, production complexity are increased from time to time, and they impose many challenges on the manufacturing industries in related to green and sustainable economic developments. Accordingly the study investigates green and sustainable economic growth, challenges mainly found due to weak & improper implementations of green technology in a nations, poor and insufficient green and sustainable renewable energy strategies, problems on waste management systems, non-integrated & non-flexible green and sustainable technology adoptions were investigated. Furthermore in most sub-Saharan African countries addicted in various tribulations because of poor and non-integrated green and sustainable energy development strategies the spreading of the villages, the complications with grid extension alternatives, the relatively high electrification cost, especially for customers with low income and the limitations of diesel power are the main constraints and challenges of in most developing countries rural electrification. Though as a result of such challenge and problems, the growth and the developments of developing economies can decline and then they approaches to die. Moreover the result also shows that As a result of this weak and non-integrated energy systems most developing nations particularly sub-Saharan Africa highly affected by climate and the environmental disasters. Besides, the adoption and developments of green and sustainable renewable energy is becoming a critical tool in the revivals and competitiveness of the global business environment. Thus, to tackle these problems this study was designed to conduct developed green and renewable energy development strategies to the firm that overcome the challenges, the issue of climate change and the death of green economy. Since this green and sustainable economic development strategies can have great impacts to tackle the challenges and constraints of current turbulent worlds. Moreover this integrated model and strategies provides that bridges the gap and birth will begin within proper implementations of the model to developing economy. While the analysis available were done Analytical hierarchy process and a HOMER software package used for economical analysis as well.

Biography

Alie Wube Dametew is currently a ph.D. Candidate with a specialization in mechanical and industrial engineering addis ababa university institute of technology school of mechanical and industrial engineering. His research interests include climate change sustainability, renewable energy improvements, social sustainability management systems, innovation and manufacturing capability, modeling & optimization in manufacturing systems, cloud and big data management systems, logistics and supply chain management, advanced and smart materials. More than 23 papers published by him, within more than 16 papers are published under preview international journal and more than 5 papers were published at national and international levels. So far, he worked as lecturer and head of research and community service in wollo university kombolcha institute of technology. He has also worked as continuous improvement expert and production supervisor in manufacturing companies and has sufficient experience on industrial plant project studies.

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