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Technical, economic, and environmental feasibility assessment of solar-battery-generator hybrid energy systems: a case study in Nigeria

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Supermarkets in Nigeria rely on diesel generators for electricity due to the unreliability of the national grid. The recent removal of petroleum subsidies in 2023 has increased fuel prices by 60%. This research examines the technical, economic, and environmental viability of employing solar PV/battery storage/generator systems to generate electricity for high-load supermarkets. The case study was conducted in the Market Square (MS) supermarket in Port Harcourt (PH) city, Nigeria. The MS supermarket had a load demand of 59.8 kW/day for an energy audit in 2022. The average solar radiation and temperature for PH city were 4.21 kWh/m² and 25.3°C, respectively. The hybrid system was simulated with the HOMER Pro software. The simulation revealed that the optimum baseline (BL) system for the present price of a liter of diesel in Nigeria (\$0.63 USD/L) was a solar PV/Battery/Generator. The optimal BL system produced 401,599 kWh/year, which was more than adequate to cover the yearly load requirement of 204,765 kWh/year and left a surplus of 173,195 kWh/year. The BL system had a levelized cost of electricity of \$0.106 USD/kWh, a net present cost of \$232,533, and Operation and Maintenance cost of \$7,928. When the overall environmental impact of the optimal BL system was assessed, it contributed 10,935 kg CO₂-eq/year of global warming potential, 1,611 kg O₃-eq/year of smog formation, and 72.2 kg SO₂-eq/year of acidification potential to the environment. Sensitivity analysis shows that the BL system could have a net present value of \$710,364, a 38% internal rate of return, and a 2-year simple payback period over a 25-year life if the excess energy is sold to the grid. Also, LCOE increases with fuel price or discount rate increase, while CO₂ falls as all renewable hybrid system configurations become more advantageous. The potential reduction in CO₂ emission in the proposed system highlights the environmental benefits compared to traditional ones. This finding will guide decisions on adopting

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Technological Economics Shoubo Xu,2020-10-26 This book creatively puts forward the subject nature object system theory method and application of technical economics and brings together the research achievements of 50 years especially the latest research results It is of great significance for the development of China s technical and economic disciplines and the cultivation of special talents for technical and economic development It is of great significance for the solution of major technical and economic problems in economic and social development and has a landmark significance in the history of world technical economics The book can be used as teaching material for both the liberal arts science and engineering students within higher education institutions and as a leading cadre training source for engineers Furthermore it can facilitate readers engaged in policy making program planning macro control evaluation of investment decision feasibility studies project with aspects such as government consulting companies banks and financial personnel needs Also this book can aid readers with engineering design product development business management as well as with the needs of engineering and technical personnel and enterprise management personnel *Economic Effects of Metallic Corrosion in the United States* United States. National Bureau of Standards,1978 Global Vessel-Source Maritime Pollution Governance—Technical Innovation and Policy Orientation Lang Xu,Zheng Wan,Jihong Chen,2023-09-25 The maritime industry plays an important role in international trade activities and the global economy It is estimated that international shipping carries approximately 80% of global trade by volume and more than 70% by value However increasing maritime activities have had a negative impact on the marine environment and human health For example in November 2002 a tanker carrying 77000 tons of fuel oil sank in the Bay of Biscay which polluted thousands of kilometers of Western European coasts rivers streams and swamps Oil

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