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REVIEWED BY
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Islamic Azad University, West Tehran, Iran
Maryam Khataee,
Sapienza University of Rome, Italy

*CORRESPONDENCE
Muzan Williams Ijeoma,
✉ mijeoma@clermson.edu

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

Muzan Williams Ijeoma^{1,2*}, Christopher Garrett Lewis^{1,3},
Hao Chen¹, Benjamin Nnamdi Chukwu² and
Michael Carbajales-Dale¹

¹Energy-Economy-Environment (E3) Sustainable Analysis Group, Department of Environmental Engineering and Earth Sciences, Clemson University, Clemson, SC, United States, ²The Brins Hammond Energy Centre, Department of Mechanical Engineering, Kwame Nnamah University of Science and Technology (KUMST), Kumasi, Ghana, ³Department of Mechanical Engineering, Clemson University, Clemson, SC, United States

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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Table of Contents Technical Economic Study On Reduction

1. Understanding the eBook Technical Economic Study On Reduction
 - The Rise of Digital Reading Technical Economic Study On Reduction
 - Advantages of eBooks Over Traditional Books
2. Identifying Technical Economic Study On Reduction
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Technical Economic Study On Reduction
 - User-Friendly Interface
4. Exploring eBook Recommendations from Technical Economic Study On Reduction
 - Personalized Recommendations
 - Technical Economic Study On Reduction User Reviews and Ratings

- Technical Economic Study On Reduction and Bestseller Lists
- 5. Accessing Technical Economic Study On Reduction Free and Paid eBooks
 - Technical Economic Study On Reduction Public Domain eBooks
 - Technical Economic Study On Reduction eBook Subscription Services
 - Technical Economic Study On Reduction Budget-Friendly Options
- 6. Navigating Technical Economic Study On Reduction eBook Formats
 - ePub, PDF, MOBI, and More
 - Technical Economic Study On Reduction Compatibility with Devices
 - Technical Economic Study On Reduction Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Technical Economic Study On Reduction
 - Highlighting and Note-Taking Technical Economic Study On Reduction
 - Interactive Elements Technical Economic Study On Reduction
- 8. Staying Engaged with Technical Economic Study On Reduction
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Technical Economic Study On Reduction
- 9. Balancing eBooks and Physical Books Technical Economic Study On Reduction
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Technical Economic Study On Reduction
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Technical Economic Study On Reduction
 - Setting Reading Goals Technical Economic Study On Reduction
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Technical Economic Study On Reduction
 - Fact-Checking eBook Content of Technical Economic Study On Reduction
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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