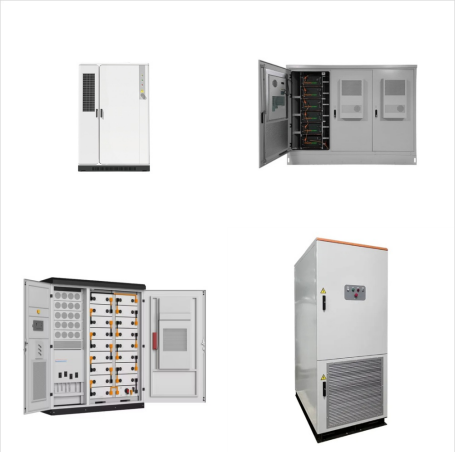
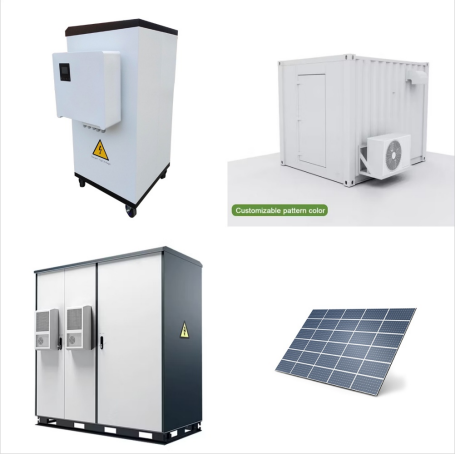
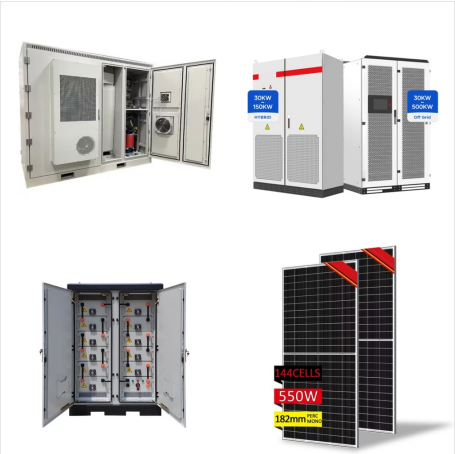


Therefore, one feasible approach to electrify these areas is to use microgrids. This technology is decent and viable option for energy revolution since it incorporates energy storage systems, distributed generators, and localized loads.



The purpose of this Master's Project is two-fold: 1) Propose an onsite microgrid design for KGE's office space, and 2) Quantify the reduction of carbon emissions in transitioning both of KGE's a?|



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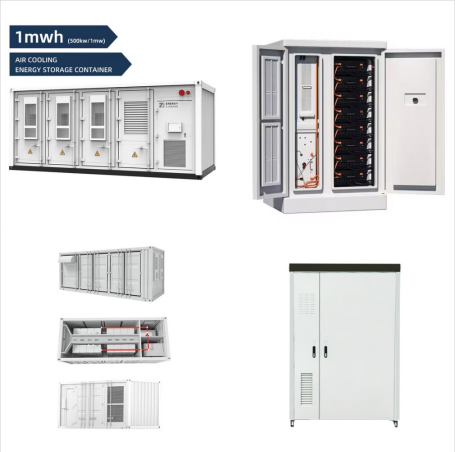
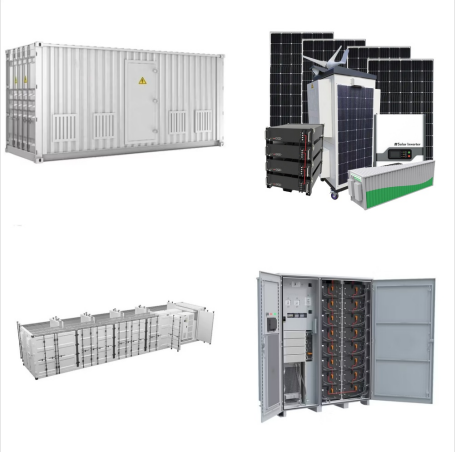
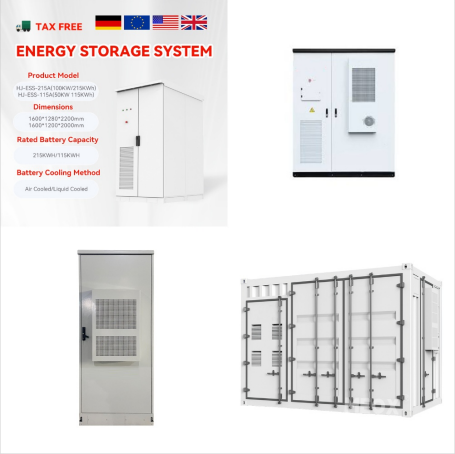
MICROGRID STRUCTURE CONGO REPUBLIC



The purpose of this Master's Project is two-fold: 1) Propose an onsite microgrid design for KGE's office space, and 2) Quantify the reduction of carbon emissions in transitioning both of KGE's microgrids from diesel generation to solar PV + battery storage with diesel backup.

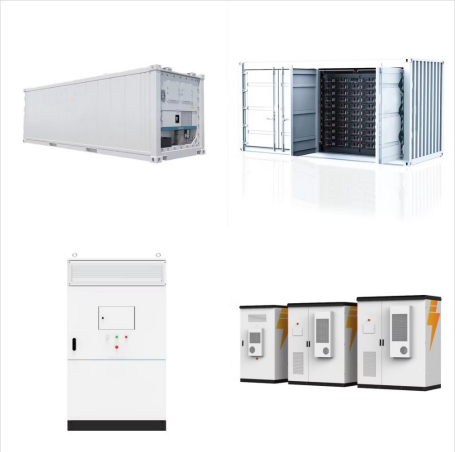


Section II provides background information on the Democratic Republic of the Congo, Kivu Green Energy's involvement in the local and regional energy sector, and an overview of microgrid technologies that KGE should evaluate to grow their clean energy business.

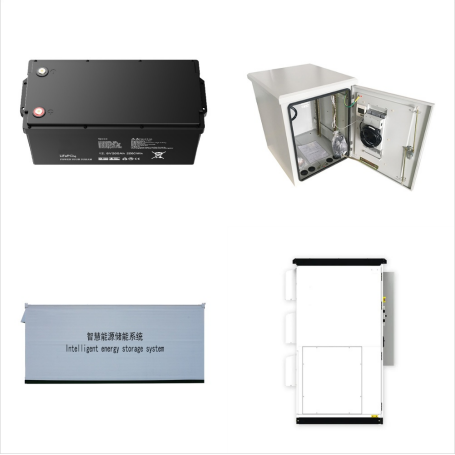


In this research, an energy management system for controlling interconnected microgrids is expressed to manage power exchanges between both microgrids and each microgrid with the main grid.

MICROGRID STRUCTURE CONGO REPUBLIC



This article comprehensively reviews strategies for optimal microgrid planning, focusing on integrating renewable energy sources. The study explores heuristic, mathematical, and hybrid methods for a?|



This paper investigates the advantages of several microgrids'' interconnection on the system reliability within the town of Goma in the Democratic Republic of the Congo (DRC) using the Homer Grid software for optimal sizing of components considering technical and economic aspects.