

# **Research on BMS system and application in designing the power supply system for FLC Green Home building**

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**Abstract:** In the context of clean and sustainable energy gaining increasing attention, this topic focuses on researching and deploying a Building Management System (BMS) for the FLC Green Home building. The objective of the study is to optimize electricity usage efficiency through synchronized monitoring and control of electrical devices within the building, ensuring sustainability and energy savings. The research methodology combines BMS system theory with on-site experimentation to develop a solution suitable for the building's architectural model. The expected outcome is to provide an effective technical platform for energy management in construction projects, contributing to the sustainable development of urban areas.

**Keywords:** BMS system, FLC Green Home Building, Energy Management