

Design of power supply for the lead-free glass furnace workshop of Rang Dong Light Bulb and Thermos Company.

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Abstract: In the context of increasing energy demand and the trend of transitioning to lead-free electrical systems, this project aims to research and design an efficient solution for power supply at the glass furnace workshop of Rang Dong Light Bulb and Thermos Company. The objective is to build a clean energy power system with the ability to optimize electricity usage, ensure reliability, and reduce operating costs. The research methodology includes assessing the current energy status at the workshop, designing a new power system model based on renewable technology, and conducting experimental implementation to verify the effectiveness of the proposed solution. The expected outcome is to provide a lead-free electrical system, ensuring the safety of workers' health and contributing to the company's sustainable development goals.

Keywords: renewable energy, lead-free electrical system, glass furnace workshop