

Design of electrical equipment system for Hồ Quang furnace

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Abstract: This topic focuses on designing and implementing an efficient electrical system for the Electric Arc Furnace, aiming to solve the energy problem in industrial applications. The main objective is to build an automated, safe, and energy-saving electrical system. The research method combines theoretical knowledge of energy management with experiments on the existing Electric Arc Furnace. It is expected that this system will provide an optimal solution for enhancing performance and reducing operating costs of Electric Arc Furnaces in the future, contributing to the sustainable development of the thermal energy industry.

Keywords: Electric equipment system, arc furnace, automation, energy management, system efficiency