

# **Design of power supply system for the mechanical and electrical workshop and Tuyen Quang cement plant**

**Hoang Manh Cuong**

**Abstract:** In the context of increasingly scarce energy, designing an efficient power supply system is a key factor in improving productivity and reducing operating costs. This topic focuses on building a power supply system for the mechanical-electrical workshop and the Tuyen Quang cement plant through a combination of theoretical research and experimentation. The goal is to ensure stability, safety, and energy savings during the production process. The expected result is to propose solutions for optimizing the power supply system, thereby contributing to the sustainable development of the local cement industry.

**Keywords:** Power supply system, Cement plant, Electromechanical workshop, Productivity, Energy saving