

Design of electric drive system for circulating water pump system for Luu Xa steel plant

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Abstract: In practice, the supply of circulating water in steelmaking plants faces many challenges in terms of performance and energy. This topic focuses on the design and implementation of a new electric drive system to improve the efficiency of water pumps at the Luu Xa plant. Through a combination of theoretical research and experimentation, the project aims to build an electric drive solution that optimizes power and energy usage. The expected results will have broad applications in the steelmaking industry, increasing operational efficiency and reducing energy costs.

Keywords: Electric drive system, circulating water pump, steel smelting plant, energy efficiency, technology optimization