

# **Building a high-pressure air compressor control system for the machine hall of Hoa Binh Hydropower Company.**

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**Abstract:** During the operation of hydropower equipment such as high-pressure air compressors, ensuring performance and reliability is extremely important. This topic focuses on researching and building a sophisticated control system for high-pressure air compressors at Hoa Binh Hydropower Company. The approach of the topic includes both theoretical and experimental methods, aiming to optimize the operation process while enhancing safety and energy savings. The expected results will significantly contribute to improving the overall performance of hydropower equipment and provide flexible solutions for the renewable energy industry.

**Keywords:** Control system, High-pressure air compressor, Hoa Binh Hydropower Company, Operation optimization, Renewable energy