

Programming control of pumping station using PLC S7-1200

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Abstract: This topic focuses on researching and implementing a pump station control programming system using the PLC S7-1200 controller, meeting automation requirements in the fields of clean water and agricultural irrigation. The context of the topic is the necessity of automation to optimize operational performance and minimize energy costs. The objective of the research is to build a precise and efficient control system through the design of a control program based on the operating principles of the pump station. The research method combines theory and experimentation to ensure the feasibility and reliability of the system. The expected outcome of this topic is an efficient automation system, contributing to improving the quality of clean water and irrigation services.

Keywords: PLC S7-1200, Automation, Clean water, Pump station, Control