

Design of a hydropower reservoir water level monitoring system via Ethernet

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Abstract: This topic focuses on designing and implementing a water level monitoring system for hydropower reservoirs, aiming to enhance the operational efficiency and safety of hydropower projects. By utilizing Ethernet technology to connect sensors and control devices, the topic seeks to address the problem of automatically and continuously monitoring and managing water levels. Theoretical research combined with experimentation has been applied to build this monitoring system, with the goal of creating an effective solution for real-world hydropower reservoirs. The expected outcome of the topic is a modern monitoring system that can support the operation and water resource management of hydropower projects.

Keywords: System design, Water level monitoring, Ethernet, Hydropower reservoir, Water resource management