

Bachelor Project

Approach Flow Analysis for Hydropower

MOTIVATION: The flow dynamics of water entering hydraulic turbines, also known as approach flow, play a crucial role in the operation, efficiency, and energy conversion of hydraulic turbines. Each turbine manufacturer has its own parameters to evaluate and optimize the turbine approach flows. However, some widely accepted criteria, such as the Fisher-Franke method, are commonly used to analyze them. This bachelor project aims to involve an undergraduate student in preparing a comprehensive literature review on the investigation of various available criteria. The goal of the project is to provide the student with a clear understanding of different ways approach flows are evaluated as well as the feasible ways of operational improvement.

Delivery: Scientific thesis collecting state of art review of the criteria to evaluate the hydraulic turbine approach flow.

Start: Immediate

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