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Future of Low Head Turbines Concerning Environmental Aspect

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Abstract

This paper will present fish friendliness assessment methods in use at ANDRITZ HYDRO. This includes experimental flow-visualization, simple empirical approaches to be used in the lay-out phase of the plant, and state-of-the-art CFD tools to verify the performance of turbines during hydraulic design. A review of commercial and research projects in which such approaches have been applied and developed is provided.