



WATER PARAMETERS EVOLUTION IN A HYDROELECTRIC SITE

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Abstract

This study presents the impact of the cascade arrangement of the hydropower plants of reversible bulb turbines (HPP) belonging to Lower Olt River, in south of Romania, on water quality. A comparative analysis of the water quality is performed for period of ten years of continuous operation of the hydro electrical site.

The water physical-chemical parameters are considered and important issues over the water quality are studied: the support of aquatic environment, the hydro turbines impact, the pollutants storage, the water hardness influence over turbines and the environmental impact of hydropower plants operation.

Key words: chemical hardness, dissolved oxygen, environmental impact, hydropower plant, reversible bulb turbines

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