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Modernization of bulb type units working in generator and motor mode

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Abstract

This paper describes the refurbishment and modernization works on the hydro electric facilities of the Lower Olt Cascade. The Lower Olt Cascade comprises five power plants, each plant houses four units. Beside generation of electricity, the power plants will also be used for irrigation purposes by pumping water upstream to furnish water for agriculturally used areas. Therefore, the units can be operated also in motor mode. Starting of the units in motor mode will be done asynchronously by connecting the units directly to the grid.