

RATIONALE FOR THE RELEVANCE AND RESULTS OF THE CREATION OF A HYBRID MICROHES WITH A SOLAR INSTALLATION IN THE FERGANA VALLEY

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ABSTRACT

The article presents the results of a study of the work and the optimal location of hybrid small power plants, consisting of solar panels and micro hydroelectric power plants, based on the water balance and climatic conditions of the Fergana Valley. The results of theoretical and experimental studies of the joint operation of solar converters and micro HPPs are presented. The possibilities of their combination for one-time use are shown. The effectiveness of the use of such current sources in places with unstable water flows and hard-to-reach areas of the Fergana Valley is substantiated.

KEYWORDS: Power Supply, Valley, Rivers, Water Flow, Solar Battery, Micro Hydroelectric Power Station, Electric Power

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