

Kokin S. E., Safaraliev M. Kh., Sultonov Sh. M.

Features of the management of hydroelectric power in the power system of the Republic of Tajikistan.

A significant share of the generation in the power system of Tajikistan is made by the hydropower plants. The article shows the peculiarity of Tajikistan's energy system. The features of cascade control are presented. A technique for estimating the additional depth of the Nurek HPP reservoir operation, taking into account the requirements for filling in conditions of different water content by the criterion for increasing the generation of electricity is proposed. The economic efficiency of reducing the electricity deficit in the power system for long-term optimization is estimated.

Keywords: hydropower resources, Vakhsh cascade, Nurek hydropower station, power system of Tajikistan, power generation.