



Theoretical assumptions for saving energy of electrical heating water in the solar collector – battery

Murat Kunelbayev*, Timur Merembayev, Rassul Yunussov, Irzhanova Aizhan, Didar Yedilchan

Institute Information and Computational Technologies CS MES RK, Almaty, Kazakhstan

E-mail: murat7508@yandex.kz

In this article a theoretical assumptions in the energy saving energy source of the solar collector – accumulator is presented. One of the main features of the solar collector - accumulator is the electric hot water in a cold season, or in night days of a sun radiation. The experiments showed that conventional thermoelectric welding device, which is based on conventional power factor could be used to control a temperature of the nozzle from the initial temperature. The newest electric gear has been proposed as regulated by the thermoelectric thinner, the thermoelectric heater of the thermoelectric diverter. Performed research and development of the mode of electric pumping of solar collector-accumulator. The analysis shows that experiments and conclusions compute the average of 5 to 9% water heating, which confirms the probability of the theoretical outcomes.

Keywords: solar collector-accumulator, sun energy, thermoelectric heating element, electrical energy

