

The invention relates to power engineering and solar engineering, in particular to autonomous solar energy systems. The autonomous solar energy system comprises photovoltaic thermal panels (PV1, PV2), connected to an inverter (In) and, via a bidirectional meter (CB), to an electric grid (RE). The panels (PV1, PV2) are connected to a heat pump evaporator (PC), which is connected via a hydraulic pump (29) to a cold water accumulator (AR), connected to a cooling system (SR). At the same time, the heat pump evaporator (PC) and a hydraulic pump (30) are connected to a hot water accumulator (AF), connected to a hot water supply system (ACM). The hot water accumulator (AF) and a hydraulic pump (32) are connected to a heating system (SI), and the autonomous system elements are connected by means of pipes with brine.

The autonomous solar energy system, in another embodiment, comprises an air conditioning system (SCA), connected to a cold water accumulator (AR). At the same time, the air conditioning system (SCA) with the hot water accumulator (AF) and cold water accumulator (AR) are connected to a control system (SC), and the autonomous system elements are connected by means of pipes with brine or water.

Claims: 2

Fig.: 2

