

Energy-active wall panel with energy generation and heating functions consists of inner reinforced concrete layer, on the inner surface of which electrically conductive layer of concrete is installed, layer of high-efficiency insulation, and outer reinforced concrete layer, on the outer surface of which flexible solar panel is installed; electrical energy from this panel, via electrical control unit consisting of automatic load switch, outdoor and indoor air temperature sensors, charge controller, storage battery, and inverter, powers electrically conductive concrete layer, resulting in heat generation.