

A reactor for waste processing has a body, at least one shaft with screw at least one branch pipe for supply of wastes, at least one branch pipe for slag discharge and at least one branch pipe for discharge of energy carriers. The body is separated into at least two connected in sequence working chambers. Those working chambers are connected to each other by means of at least one bypass window. At least two working chambers contain a layer of molten salt. Bypass window is in the lower part of the body of the reactor lower than the surface of molten salt layer. At least one working chamber includes at least one pair of electrodes working surface of which is in the lower part of the working chamber lower than the surface of molten salt. The pair of electrodes is connected to at least one resonance-transformer. The production of at least two types of energy carriers is provided.