

The invention relates to methods for producing biogas by processing municipal and agricultural organic waste from livestock, poultry farming, plant growing processes, food and cellulose-containing waste from woodworking and landfills and can be used for producing gaseous fuel and organic-mineral fertilizers.

The proposed combined method for producing methane includes anaerobic methane fermentation of vinasse biomass by passing a hydrogen-containing gaseous mixture through it, at the same time as gaseous mixture is used a generator gas, obtained during the catalytic gasification of cellulose-containing organic waste, which is dosed into the fermented vinasse biomass in an amount of 5-10 m³/m³, with the quantitative volumetric ratio of hydrogen and the total content of carbon dioxide and carbon monoxide in the gaseous mixture of 1:(0.3-0.5), as cellulose-containing waste are used crushed grapevine or wood scraps, and/or fallen leaves, and as gasification catalyst is used granular magnetite.

Claims: 3

Fig.: 1