Environmental and Economic Aspects of Preliminary Heat Treatment of Biomass in Biofuel Production


Tambov State Technical University, Tambov; Clean Energy Ltd, Greece

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Abstract: The paper explores ecological and economic aspects of biomass pre-thermal processing for biofuels with improved performance. It is shown that annealing of the biomass increases its volumetric heat content, as well as greenhouse gas emissions during transportation. It is economically feasible to subject biomass to thermal treatment at its subsequent transportation to a distance of 250 km.