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Sustainable Energy Supply Based on Sunflower Seed Husk for Oil mills

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Краткое описание
Ключевые слова автора
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Цели устойчивого развития 2023
Темы SciVal
Параметры

Краткое описание

The use of biomass, including sunflower husk, for in-situ energy generation has undergone a development in Ukraine last decades. Within this work, four combined heat and power technologies based on oil utilization, husk combustion, gasification, and methanization have been investigated. Their electricity and heat potential has been determined. Criteria for techno-economical assessment of CHP technologies have been suggested. Husk biogas and gasification technologies are not mature. CHP plants based on husk combustion are competitive. Steam turbine generators with a nominal electric capacity higher 1.5 MW may be profitable too. © 2019 IEEE.

Ключевые слова автора

biomass; conversion; efficiency; energy supply; processing plant; renewable energy

Включенные в указатель ключевые слова

Engineering controlled terms
Biomass; Cogeneration plants; Combustion; Efficiency; Energy resources; Gas generators; Gasification; Power generation; Ship conversion; Sunflower oil

Engineering uncontrolled terms
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